

# 1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

| SPECIFICATIONS OF Air Conditioner                                                                                                                               |                              |                        | (Ceiling-concealed TYPE)                         |                                                             |                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------|--------------------------------------------------|-------------------------------------------------------------|------------------------|
| MODEL                                                                                                                                                           |                              |                        | PEFY-MS20VMA-A1                                  |                                                             |                        |
| Power source                                                                                                                                                    |                              |                        | 1-phase 220-230-240 V 50 Hz                      |                                                             |                        |
| Cooling capacity<br>(Nominal)                                                                                                                                   | *1                           | kW                     | 2.2                                              |                                                             |                        |
|                                                                                                                                                                 | *1                           | BTU/h                  | 7,500                                            |                                                             |                        |
|                                                                                                                                                                 | *2                           | Power input            | kW                                               | 0.039                                                       |                        |
|                                                                                                                                                                 | *2                           | Current input          | A                                                | (220-230-240 V) 0.34-0.33-0.32                              |                        |
| Heating capacity<br>(Nominal)                                                                                                                                   | *3                           | kW                     | 2.5                                              |                                                             |                        |
|                                                                                                                                                                 | *3                           | BTU/h                  | 8,500                                            |                                                             |                        |
|                                                                                                                                                                 | *2                           | Power input            | kW                                               | 0.037                                                       |                        |
|                                                                                                                                                                 | *2                           | Current input          | A                                                | (220-230-240 V) 0.34-0.33-0.32                              |                        |
| External finish                                                                                                                                                 |                              |                        | Galvanized steel plate                           |                                                             |                        |
| External dimension HxWxD                                                                                                                                        | mm                           |                        | 250 x 700 x 732                                  |                                                             |                        |
|                                                                                                                                                                 | in.                          |                        | 9-7/8 x 27-9/16 x 28-7/8                         |                                                             |                        |
| Net weight                                                                                                                                                      |                              |                        | kg (lbs)                                         | 21.0 (46.5)                                                 |                        |
| Heat exchanger                                                                                                                                                  |                              |                        | Cross fin (Aluminium fin and copper tube)        |                                                             |                        |
| FAN                                                                                                                                                             | Type x Quantity              |                        | Sirocco fan x 1                                  |                                                             |                        |
|                                                                                                                                                                 | *4                           | External static press. | Pa                                               | 35 - <50> - <70> - <100> - <150>                            |                        |
|                                                                                                                                                                 |                              |                        | mmH <sub>2</sub> O                               | 3.6 - <5.1> - <7.1> - <10.2> - <15.3>                       |                        |
|                                                                                                                                                                 | Motor Type                   |                        | DC motor                                         |                                                             |                        |
|                                                                                                                                                                 | Motor output                 |                        | kW                                               | 0.085                                                       |                        |
|                                                                                                                                                                 | Driving mechanism            |                        | Direct-driven by motor                           |                                                             |                        |
|                                                                                                                                                                 | *2                           | Air flow rate          | (Low-Mid2-Mid1-High)                             |                                                             |                        |
|                                                                                                                                                                 |                              |                        | Cooling                                          | m <sup>3</sup> /min                                         | 6.0 - 7.0 - 8.5 - 10.0 |
|                                                                                                                                                                 |                              |                        |                                                  | L/s                                                         | 100 - 116 - 142 - 166  |
|                                                                                                                                                                 |                              |                        |                                                  | cfm                                                         | 212 - 247 - 300 - 353  |
|                                                                                                                                                                 |                              |                        | Heating                                          | m <sup>3</sup> /min                                         | 6.0 - 7.0 - 8.5 - 10.0 |
|                                                                                                                                                                 |                              |                        |                                                  | L/s                                                         | 100 - 116 - 142 - 166  |
|                                                                                                                                                                 |                              |                        |                                                  | cfm                                                         | 212 - 247 - 300 - 353  |
|                                                                                                                                                                 |                              |                        | Sound pressure level (measured in anechoic room) |                                                             |                        |
|                                                                                                                                                                 | *5                           | Cooling                | dB (A)                                           | 21.5 - 23.0 - 26.5 - 30.0                                   |                        |
| Heating                                                                                                                                                         |                              | dB (A)                 | 21.5 - 23.0 - 26.5 - 30.0                        |                                                             |                        |
| Insulation material                                                                                                                                             |                              |                        | EPS, Polystyrene foam, Urethane foam             |                                                             |                        |
| Air filter                                                                                                                                                      |                              |                        | PP honeycomb fabric.                             |                                                             |                        |
| Protection device                                                                                                                                               |                              |                        | Fuse                                             |                                                             |                        |
| Refrigerant control device                                                                                                                                      |                              |                        | LEV                                              |                                                             |                        |
| Connectable outdoor unit                                                                                                                                        |                              |                        | R32, R410A CITY MULTI                            |                                                             |                        |
| Refrigerant piping diameter                                                                                                                                     | Liquid                       | mm (in.)               | 6.35 (1/4)Braze                                  |                                                             |                        |
|                                                                                                                                                                 | Gas                          | mm (in.)               | 12.7 (1/2)Braze                                  |                                                             |                        |
| Field drain pipe size                                                                                                                                           |                              |                        | mm (in.) O.D.φ32 (1-1/4)                         |                                                             |                        |
| Drawing                                                                                                                                                         | External                     |                        | KB94CACX                                         |                                                             |                        |
|                                                                                                                                                                 | Wiring                       |                        | KB94CAQS                                         |                                                             |                        |
|                                                                                                                                                                 | Refrigerant cycle            |                        | -                                                |                                                             |                        |
| Standard attachment                                                                                                                                             | Document                     |                        | Installation Manual, Instruction Book            |                                                             |                        |
|                                                                                                                                                                 | Accessory                    |                        | Washer, Drain hose, Tie band                     |                                                             |                        |
| Optional parts                                                                                                                                                  | Filter box                   |                        | PAC-KE91TB-E                                     |                                                             |                        |
|                                                                                                                                                                 | Plasma Quad Connect          |                        | MAC-100FT-E                                      |                                                             |                        |
|                                                                                                                                                                 | PQ attachment (Rear inlet)   |                        | PAC-HA31PAR                                      |                                                             |                        |
|                                                                                                                                                                 | PQ attachment (Bottom inlet) |                        | PAC-HA31PAU                                      |                                                             |                        |
|                                                                                                                                                                 | PQ Box                       |                        | PAC-KE91PTB-E                                    |                                                             |                        |
| Remarks                                                                                                                                                         |                              |                        |                                                  |                                                             |                        |
| * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. |                              |                        |                                                  |                                                             |                        |
| * Due to continuing improvement, above specifications may be subject to change without notice.                                                                  |                              |                        |                                                  |                                                             |                        |
| Notes:                                                                                                                                                          |                              |                        |                                                  | Unit converter                                              |                        |
| 1.Nominal cooling conditions                                                                                                                                    |                              |                        |                                                  | BTU/h =kW x 3,412                                           |                        |
| Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)                                                                                               |                              |                        |                                                  | cfm =m <sup>3</sup> /min x 35.31                            |                        |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                        |                                                  | lbs =kg/0.4536                                              |                        |
| 2.The values are measured at the factory setting of external static pressure.                                                                                   |                              |                        |                                                  |                                                             |                        |
| The Air flow rate is measured by the conventional method in JIS.                                                                                                |                              |                        |                                                  |                                                             |                        |
| 3.Nominal heating conditions                                                                                                                                    |                              |                        |                                                  |                                                             |                        |
| Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)                                                                                                 |                              |                        |                                                  |                                                             |                        |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                        |                                                  |                                                             |                        |
| 4.The factory setting of airflow mode and external static pressure mode is shown without < >.                                                                   |                              |                        |                                                  |                                                             |                        |
| Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.                           |                              |                        |                                                  |                                                             |                        |
| 5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.   |                              |                        |                                                  |                                                             |                        |
|                                                                                                                                                                 |                              |                        |                                                  | *Above specification data is subject to rounding variation. |                        |

# 1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

| SPECIFICATIONS OF Air Conditioner                                                                                                                               |                              |                        | (Ceiling-concealed TYPE)                                              |                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------|-----------------------------------------------------------------------|--------------------------------------------|
| MODEL                                                                                                                                                           |                              |                        | PEFY-MS25VMA-A1                                                       |                                            |
| Power source                                                                                                                                                    |                              |                        | 1-phase 220-230-240 V 50 Hz                                           |                                            |
| Cooling capacity<br>(Nominal)                                                                                                                                   | *1                           | kW                     | 2.8                                                                   |                                            |
|                                                                                                                                                                 | *1                           | BTU/h                  | 9,600                                                                 |                                            |
|                                                                                                                                                                 | *2                           | Power input            | 0.039                                                                 |                                            |
|                                                                                                                                                                 | *2                           | Current input          | (220-230-240 V) 0.34-0.33-0.32                                        |                                            |
| Heating capacity<br>(Nominal)                                                                                                                                   | *3                           | kW                     | 3.2                                                                   |                                            |
|                                                                                                                                                                 | *3                           | BTU/h                  | 10,900                                                                |                                            |
|                                                                                                                                                                 | *2                           | Power input            | 0.037                                                                 |                                            |
|                                                                                                                                                                 | *2                           | Current input          | (220-230-240 V) 0.34-0.33-0.32                                        |                                            |
| External finish                                                                                                                                                 |                              |                        | Galvanized steel plate                                                |                                            |
| External dimension HxWxD                                                                                                                                        |                              | mm                     | 250 x 700 x 732                                                       |                                            |
|                                                                                                                                                                 |                              | in.                    | 9-7/8 x 27-9/16 x 28-7/8                                              |                                            |
| Net weight                                                                                                                                                      |                              | kg (lbs)               | 21.0 (46.5)                                                           |                                            |
| Heat exchanger                                                                                                                                                  |                              |                        | Cross fin (Aluminium fin and copper tube)                             |                                            |
| FAN                                                                                                                                                             | Type x Quantity              |                        | Sirocco fan x 1                                                       |                                            |
|                                                                                                                                                                 | *4                           | External static press. | Pa                                                                    | 35 - <50> - <70> - <100> - <150>           |
|                                                                                                                                                                 |                              |                        | mmH <sub>2</sub> O                                                    | 3.6 - <5.1> - <7.1> - <10.2> - <15.3>      |
|                                                                                                                                                                 | Motor Type                   |                        | DC motor                                                              |                                            |
|                                                                                                                                                                 | Motor output                 |                        | kW 0.085                                                              |                                            |
|                                                                                                                                                                 | Driving mechanism            |                        | Direct-driven by motor                                                |                                            |
|                                                                                                                                                                 | *2                           | Air flow rate          | (Low-Mid2-Mid1-High)                                                  |                                            |
|                                                                                                                                                                 |                              |                        | Cooling                                                               | m <sup>3</sup> /min 6.0 - 7.0 - 8.5 - 10.0 |
|                                                                                                                                                                 |                              |                        |                                                                       | L/s 100 - 116 - 142 - 166                  |
|                                                                                                                                                                 |                              |                        |                                                                       | cfm 212 - 247 - 300 - 353                  |
|                                                                                                                                                                 |                              | Heating                | m <sup>3</sup> /min 6.0 - 7.0 - 8.5 - 10.0                            |                                            |
|                                                                                                                                                                 |                              |                        | L/s 100 - 116 - 142 - 166                                             |                                            |
|                                                                                                                                                                 |                              |                        | cfm 212 - 247 - 300 - 353                                             |                                            |
|                                                                                                                                                                 |                              |                        | Sound pressure level (measured in anechoic room) (Low-Mid2-Mid1-High) |                                            |
|                                                                                                                                                                 | *5                           | Cooling                | dB (A)                                                                | 21.5 - 23.0 - 26.5 - 30.0                  |
| Heating                                                                                                                                                         |                              | dB (A)                 | 21.5 - 23.0 - 26.5 - 30.0                                             |                                            |
| Insulation material                                                                                                                                             |                              |                        | EPS, Polystyrene foam, Urethane foam                                  |                                            |
| Air filter                                                                                                                                                      |                              |                        | PP honeycomb fabric.                                                  |                                            |
| Protection device                                                                                                                                               |                              |                        | Fuse                                                                  |                                            |
| Refrigerant control device                                                                                                                                      |                              |                        | LEV                                                                   |                                            |
| Connectable outdoor unit                                                                                                                                        |                              |                        | R32, R410A CITY MULTI                                                 |                                            |
| Refrigerant piping diameter                                                                                                                                     | Liquid                       | mm (in.)               | 6.35 (1/4)Brazed                                                      |                                            |
|                                                                                                                                                                 | Gas                          | mm (in.)               | 12.7 (1/2)Brazed                                                      |                                            |
| Field drain pipe size                                                                                                                                           |                              | mm (in.)               | O.D.φ32 (1-1/4)                                                       |                                            |
| Drawing                                                                                                                                                         | External                     |                        | KB94CACX                                                              |                                            |
|                                                                                                                                                                 | Wiring                       |                        | KB94CAQS                                                              |                                            |
|                                                                                                                                                                 | Refrigerant cycle            |                        | -                                                                     |                                            |
| Standard attachment                                                                                                                                             | Document                     |                        | Installation Manual, Instruction Book                                 |                                            |
|                                                                                                                                                                 | Accessory                    |                        | Washer, Drain hose, Tie band                                          |                                            |
| Optional parts                                                                                                                                                  | Filter box                   |                        | PAC-KE91TB-E                                                          |                                            |
|                                                                                                                                                                 | Plasma Quad Connect          |                        | MAC-100FT-E                                                           |                                            |
|                                                                                                                                                                 | PQ attachment (Rear inlet)   |                        | PAC-HA31PAR                                                           |                                            |
|                                                                                                                                                                 | PQ attachment (Bottom inlet) |                        | PAC-HA31PAU                                                           |                                            |
|                                                                                                                                                                 | PQ Box                       |                        | PAC-KE91PTB-E                                                         |                                            |
| Remarks                                                                                                                                                         |                              |                        |                                                                       |                                            |
| * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. |                              |                        |                                                                       |                                            |
| * Due to continuing improvement, above specifications may be subject to change without notice.                                                                  |                              |                        |                                                                       |                                            |
| Notes:                                                                                                                                                          |                              |                        | Unit converter                                                        |                                            |
| 1.Nominal cooling conditions                                                                                                                                    |                              |                        | BTU/h =kW x 3,412                                                     |                                            |
| Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)                                                                                               |                              |                        | cfm =m <sup>3</sup> /min x 35.31                                      |                                            |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                        | lbs =kg/0.4536                                                        |                                            |
| 2.The values are measured at the factory setting of external static pressure.                                                                                   |                              |                        |                                                                       |                                            |
| The Air flow rate is measured by the conventional method in JIS.                                                                                                |                              |                        |                                                                       |                                            |
| 3.Nominal heating conditions                                                                                                                                    |                              |                        |                                                                       |                                            |
| Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)                                                                                                 |                              |                        |                                                                       |                                            |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                        |                                                                       |                                            |
| 4.The factory setting of airflow mode and external static pressure mode is shown without < >.                                                                   |                              |                        |                                                                       |                                            |
| Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.                           |                              |                        |                                                                       |                                            |
| 5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.   |                              |                        |                                                                       |                                            |
|                                                                                                                                                                 |                              |                        | *Above specification data is subject to rounding variation.           |                                            |

# 1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

| SPECIFICATIONS OF Air Conditioner                                                                                                                               |                              |                        | (Ceiling-concealed TYPE)                                    |                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------|-------------------------------------------------------------|---------------------------------------|
| MODEL                                                                                                                                                           |                              |                        | PEFY-MS32VMA-A1                                             |                                       |
| Power source                                                                                                                                                    |                              |                        | 1-phase 220-230-240 V 50 Hz                                 |                                       |
| Cooling capacity<br>(Nominal)                                                                                                                                   | *1                           | kW                     | 3.6                                                         |                                       |
|                                                                                                                                                                 | *1                           | BTU/h                  | 12,300                                                      |                                       |
|                                                                                                                                                                 | *2                           | Power input            | kW                                                          | 0.060                                 |
|                                                                                                                                                                 | *2                           | Current input          | A                                                           | (220-230-240 V) 0.50-0.48-0.46        |
| Heating capacity<br>(Nominal)                                                                                                                                   | *3                           | kW                     | 4.0                                                         |                                       |
|                                                                                                                                                                 | *3                           | BTU/h                  | 13,600                                                      |                                       |
|                                                                                                                                                                 | *2                           | Power input            | kW                                                          | 0.058                                 |
|                                                                                                                                                                 | *2                           | Current input          | A                                                           | (220-230-240 V) 0.50-0.48-0.46        |
| External finish                                                                                                                                                 |                              |                        | Galvanized steel plate                                      |                                       |
| External dimension HxWxD                                                                                                                                        | mm                           |                        | 250 x 700 x 732                                             |                                       |
|                                                                                                                                                                 | in.                          |                        | 9-7/8 x 27-9/16 x 28-7/8                                    |                                       |
| Net weight                                                                                                                                                      |                              |                        | kg (lbs)                                                    | 21.0 (46.5)                           |
| Heat exchanger                                                                                                                                                  |                              |                        | Cross fin (Aluminium fin and copper tube)                   |                                       |
| FAN                                                                                                                                                             | Type x Quantity              |                        | Sirocco fan x 1                                             |                                       |
|                                                                                                                                                                 | *4                           | External static press. | Pa                                                          | 35 - <50> - <70> - <100> - <150>      |
|                                                                                                                                                                 |                              |                        | mmH <sub>2</sub> O                                          | 3.6 - <5.1> - <7.1> - <10.2> - <15.3> |
|                                                                                                                                                                 | Motor Type                   |                        | DC motor                                                    |                                       |
|                                                                                                                                                                 | Motor output                 |                        | kW                                                          | 0.085                                 |
|                                                                                                                                                                 | Driving mechanism            |                        | Direct-driven by motor                                      |                                       |
|                                                                                                                                                                 | *2                           | Air flow rate          |                                                             | (Low-Mid2-Mid1-High)                  |
|                                                                                                                                                                 |                              | Cooling                | m <sup>3</sup> /min                                         | 7.4 - 9.0 - 10.5 - 12.5               |
|                                                                                                                                                                 |                              |                        | L/s                                                         | 123 - 150 - 175 - 208                 |
|                                                                                                                                                                 |                              |                        | cfm                                                         | 261 - 317 - 370 - 441                 |
|                                                                                                                                                                 |                              | Heating                | m <sup>3</sup> /min                                         | 7.4 - 9.0 - 10.5 - 12.5               |
|                                                                                                                                                                 |                              |                        | L/s                                                         | 123 - 150 - 175 - 208                 |
|                                                                                                                                                                 |                              |                        | cfm                                                         | 261 - 317 - 370 - 441                 |
|                                                                                                                                                                 |                              |                        | Sound pressure level (measured in anechoic room)            |                                       |
|                                                                                                                                                                 | *5                           | Cooling                | dB (A)                                                      | 24.0 - 28.0 - 31.5 - 35.5             |
|                                                                                                                                                                 |                              | Heating                | dB (A)                                                      | 24.0 - 28.0 - 31.5 - 35.5             |
|                                                                                                                                                                 | Insulation material          |                        |                                                             | EPS, Polystyrene foam, Urethane foam  |
| Air filter                                                                                                                                                      |                              |                        | PP honeycomb fabric.                                        |                                       |
| Protection device                                                                                                                                               |                              |                        | Fuse                                                        |                                       |
| Refrigerant control device                                                                                                                                      |                              |                        | LEV                                                         |                                       |
| Connectable outdoor unit                                                                                                                                        |                              |                        | R32, R410A CITY MULTI                                       |                                       |
| Refrigerant piping diameter                                                                                                                                     | Liquid                       | mm (in.)               | 6.35 (1/4)Braze                                             |                                       |
|                                                                                                                                                                 | Gas                          | mm (in.)               | 12.7 (1/2)Braze                                             |                                       |
| Field drain pipe size                                                                                                                                           |                              |                        | mm (in.)                                                    | O.D.φ32 (1-1/4)                       |
| Drawing                                                                                                                                                         | External                     |                        | KB94CACX                                                    |                                       |
|                                                                                                                                                                 | Wiring                       |                        | KB94CAQS                                                    |                                       |
|                                                                                                                                                                 | Refrigerant cycle            |                        | -                                                           |                                       |
| Standard attachment                                                                                                                                             | Document                     |                        | Installation Manual, Instruction Book                       |                                       |
|                                                                                                                                                                 | Accessory                    |                        | Washer, Drain hose, Tie band                                |                                       |
| Optional parts                                                                                                                                                  | Filter box                   |                        | PAC-KE91TB-E                                                |                                       |
|                                                                                                                                                                 | Plasma Quad Connect          |                        | MAC-100FT-E                                                 |                                       |
|                                                                                                                                                                 | PQ attachment (Rear inlet)   |                        | PAC-HA31PAR                                                 |                                       |
|                                                                                                                                                                 | PQ attachment (Bottom inlet) |                        | PAC-HA31PAU                                                 |                                       |
|                                                                                                                                                                 | PQ Box                       |                        | PAC-KE91PTB-E                                               |                                       |
| Remarks                                                                                                                                                         |                              |                        |                                                             |                                       |
| * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. |                              |                        |                                                             |                                       |
| * Due to continuing improvement, above specifications may be subject to change without notice.                                                                  |                              |                        |                                                             |                                       |
| Notes:                                                                                                                                                          |                              |                        | Unit converter                                              |                                       |
| 1.Nominal cooling conditions                                                                                                                                    |                              |                        | BTU/h =kW x 3,412                                           |                                       |
| Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)                                                                                               |                              |                        | cfm =m <sup>3</sup> /min x 35.31                            |                                       |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                        | lbs =kg/0.4536                                              |                                       |
| 2.The values are measured at the factory setting of external static pressure.                                                                                   |                              |                        |                                                             |                                       |
| The Air flow rate is measured by the conventional method in JIS.                                                                                                |                              |                        |                                                             |                                       |
| 3.Nominal heating conditions                                                                                                                                    |                              |                        |                                                             |                                       |
| Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)                                                                                                 |                              |                        |                                                             |                                       |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                        |                                                             |                                       |
| 4.The factory setting of airflow mode and external static pressure mode is shown without < >.                                                                   |                              |                        |                                                             |                                       |
| Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.                           |                              |                        |                                                             |                                       |
| 5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.   |                              |                        |                                                             |                                       |
|                                                                                                                                                                 |                              |                        | *Above specification data is subject to rounding variation. |                                       |

# 1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

| SPECIFICATIONS OF Air Conditioner                                                                                                                               |                              |                        | (Ceiling-concealed TYPE)                      |                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------|-----------------------------------------------|-------------------------------------------------------------|
| MODEL                                                                                                                                                           |                              |                        | PEFY-MS40VMA-A1                               |                                                             |
| Power source                                                                                                                                                    |                              |                        | 1-phase 220-230-240 V 50 Hz                   |                                                             |
| Cooling capacity<br>(Nominal)                                                                                                                                   | *1                           | kW                     | 4.5                                           |                                                             |
|                                                                                                                                                                 | *1                           | BTU/h                  | 15,400                                        |                                                             |
|                                                                                                                                                                 | *2                           | Power input            | kW                                            | 0.087                                                       |
|                                                                                                                                                                 | *2                           | Current input          | A                                             | (220-230-240 V) 0.70-0.67-0.64                              |
| Heating capacity<br>(Nominal)                                                                                                                                   | *3                           | kW                     | 5.0                                           |                                                             |
|                                                                                                                                                                 | *3                           | BTU/h                  | 17,100                                        |                                                             |
|                                                                                                                                                                 | *2                           | Power input            | kW                                            | 0.085                                                       |
|                                                                                                                                                                 | *2                           | Current input          | A                                             | (220-230-240 V) 0.70-0.67-0.64                              |
| External finish                                                                                                                                                 |                              |                        | Galvanized steel plate                        |                                                             |
| External dimension HxWxD                                                                                                                                        |                              | mm                     | 250 x 900 x 732                               |                                                             |
|                                                                                                                                                                 |                              | in.                    | 9-7/8 x 35-7/16 x 28-7/8                      |                                                             |
| Net weight                                                                                                                                                      |                              | kg (lbs)               | 25.0 (55.0)                                   |                                                             |
| Heat exchanger                                                                                                                                                  |                              |                        | Cross fin (Aluminium fin and copper tube)     |                                                             |
| FAN                                                                                                                                                             | Type x Quantity              |                        | Sirocco fan x 2                               |                                                             |
|                                                                                                                                                                 | *4                           | External static press. | Pa                                            | 35 - <50> - <70> - <100> - <150>                            |
|                                                                                                                                                                 |                              |                        | mmH <sub>2</sub> O                            | 3.6 - <5.1> - <7.1> - <10.2> - <15.3>                       |
|                                                                                                                                                                 |                              | Motor Type             |                                               | DC motor                                                    |
|                                                                                                                                                                 |                              | Motor output           | kW                                            | 0.121                                                       |
|                                                                                                                                                                 | Driving mechanism            |                        | Direct-driven by motor                        |                                                             |
|                                                                                                                                                                 | *2                           | Air flow rate          | (Low-Mid2-Mid1-High)                          |                                                             |
|                                                                                                                                                                 |                              |                        | Cooling                                       | m <sup>3</sup> /min 10.0 - 11.5 - 13.5 - 19.0               |
|                                                                                                                                                                 |                              |                        | L/s 166 - 191 - 225 - 316                     |                                                             |
|                                                                                                                                                                 |                              |                        | cfm 353 - 406 - 476 - 670                     |                                                             |
|                                                                                                                                                                 |                              | Heating                | m <sup>3</sup> /min 10.0 - 11.5 - 13.5 - 19.0 |                                                             |
|                                                                                                                                                                 |                              |                        | L/s 166 - 191 - 225 - 316                     |                                                             |
|                                                                                                                                                                 |                              |                        | cfm 353 - 406 - 476 - 670                     |                                                             |
| Sound pressure level (measured in anechoic room)                                                                                                                |                              | (Low-Mid2-Mid1-High)   |                                               |                                                             |
| *5                                                                                                                                                              | Cooling                      | dB (A)                 | 23.5 - 25.5 - 28.5 - 37.0                     |                                                             |
|                                                                                                                                                                 | Heating                      | dB (A)                 | 23.5 - 25.5 - 28.5 - 37.0                     |                                                             |
| Insulation material                                                                                                                                             |                              |                        | EPS, Polystyrene foam, Urethane foam          |                                                             |
| Air filter                                                                                                                                                      |                              |                        | PP honeycomb fabric.                          |                                                             |
| Protection device                                                                                                                                               |                              |                        | Fuse                                          |                                                             |
| Refrigerant control device                                                                                                                                      |                              |                        | LEV                                           |                                                             |
| Connectable outdoor unit                                                                                                                                        |                              |                        | R32, R410A CITY MULTI                         |                                                             |
| Refrigerant piping                                                                                                                                              | Liquid                       | mm (in.)               | 6.35 (1/4)Brazed                              |                                                             |
| diameter                                                                                                                                                        | Gas                          | mm (in.)               | 12.7 (1/2)Brazed                              |                                                             |
| Field drain pipe size                                                                                                                                           |                              | mm (in.)               | O.D.φ32 (1-1/4)                               |                                                             |
| Drawing                                                                                                                                                         | External                     |                        | KB94CACX                                      |                                                             |
|                                                                                                                                                                 | Wiring                       |                        | KB94CAQS                                      |                                                             |
|                                                                                                                                                                 | Refrigerant cycle            |                        | -                                             |                                                             |
| Standard attachment                                                                                                                                             | Document                     |                        | Installation Manual, Instruction Book         |                                                             |
|                                                                                                                                                                 | Accessory                    |                        | Washer, Drain hose, Tie band                  |                                                             |
| Optional parts                                                                                                                                                  | Filter box                   |                        | PAC-KE92TB-E                                  |                                                             |
|                                                                                                                                                                 | Plasma Quad Connect          |                        | MAC-100FT-E                                   |                                                             |
|                                                                                                                                                                 | PQ attachment (Rear inlet)   |                        | PAC-HA31PAR                                   |                                                             |
|                                                                                                                                                                 | PQ attachment (Bottom inlet) |                        | PAC-HA31PAU                                   |                                                             |
|                                                                                                                                                                 | PQ Box                       |                        | PAC-KE92PTB-E                                 |                                                             |
| Remarks                                                                                                                                                         |                              |                        |                                               |                                                             |
| * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. |                              |                        |                                               |                                                             |
| * Due to continuing improvement, above specifications may be subject to change without notice.                                                                  |                              |                        |                                               |                                                             |
| Notes:                                                                                                                                                          |                              |                        |                                               | Unit converter                                              |
| 1.Nominal cooling conditions                                                                                                                                    |                              |                        |                                               | BTU/h =kW x 3,412                                           |
| Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)                                                                                               |                              |                        |                                               | cfm =m <sup>3</sup> /min x 35.31                            |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                        |                                               | lbs =kg/0.4536                                              |
| 2.The values are measured at the factory setting of external static pressure.                                                                                   |                              |                        |                                               |                                                             |
| The Air flow rate is measured by the conventional method in JIS.                                                                                                |                              |                        |                                               |                                                             |
| 3.Nominal heating conditions                                                                                                                                    |                              |                        |                                               |                                                             |
| Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)                                                                                                 |                              |                        |                                               |                                                             |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                        |                                               |                                                             |
| 4.The factory setting of airflow mode and external static pressure mode is shown without < >.                                                                   |                              |                        |                                               |                                                             |
| Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.                           |                              |                        |                                               |                                                             |
| 5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.   |                              |                        |                                               |                                                             |
|                                                                                                                                                                 |                              |                        |                                               | *Above specification data is subject to rounding variation. |

# 1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

| SPECIFICATIONS OF Air Conditioner                                                                                                                               |                              |                        | (Ceiling-concealed TYPE)                  |                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------|-------------------------------------------|-------------------------------------------------------------|
| MODEL                                                                                                                                                           |                              |                        | PEFY-MS50VMA-A1                           |                                                             |
| Power source                                                                                                                                                    |                              |                        | 1-phase 220-230-240 V 50 Hz               |                                                             |
| Cooling capacity<br>(Nominal)                                                                                                                                   | *1                           | kW                     | 5.6                                       |                                                             |
|                                                                                                                                                                 | *1                           | BTU/h                  | 19,100                                    |                                                             |
|                                                                                                                                                                 | *2                           | Power input            | kW                                        | 0.131                                                       |
|                                                                                                                                                                 | *2                           | Current input          | A                                         | (220-230-240 V) 0.94-0.90-0.86                              |
| Heating capacity<br>(Nominal)                                                                                                                                   | *3                           | kW                     | 6.3                                       |                                                             |
|                                                                                                                                                                 | *3                           | BTU/h                  | 21,500                                    |                                                             |
|                                                                                                                                                                 | *2                           | Power input            | kW                                        | 0.129                                                       |
|                                                                                                                                                                 | *2                           | Current input          | A                                         | (220-230-240 V) 0.94-0.90-0.86                              |
| External finish                                                                                                                                                 |                              |                        | Galvanized steel plate                    |                                                             |
| External dimension HxWxD                                                                                                                                        |                              | mm                     | 250 x 1100 x 732                          |                                                             |
|                                                                                                                                                                 |                              | in.                    | 9-7/8 x 43-5/16 x 28-7/8                  |                                                             |
| Net weight                                                                                                                                                      |                              | kg (lbs)               | 30.0 (66.0)                               |                                                             |
| Heat exchanger                                                                                                                                                  |                              |                        | Cross fin (Aluminium fin and copper tube) |                                                             |
| FAN                                                                                                                                                             |                              | Type x Quantity        | Sirocco fan x 2                           |                                                             |
|                                                                                                                                                                 | *4                           | External static press. | Pa                                        | 35 - <50> - <70> - <100> - <150>                            |
|                                                                                                                                                                 |                              |                        | mmH <sub>2</sub> O                        | 3.6 - <5.1> - <7.1> - <10.2> - <15.3>                       |
|                                                                                                                                                                 | Motor Type                   |                        | DC motor                                  |                                                             |
|                                                                                                                                                                 | Motor output                 |                        | kW                                        | 0.121                                                       |
|                                                                                                                                                                 | Driving mechanism            |                        | Direct-driven by motor                    |                                                             |
|                                                                                                                                                                 | *2                           | Air flow rate          | (Low-Mid2-Mid1-High)                      |                                                             |
|                                                                                                                                                                 |                              |                        | Cooling                                   | m <sup>3</sup> /min                                         |
|                                                                                                                                                                 |                              |                        | L/s                                       | 208 - 241 - 275 - 426                                       |
|                                                                                                                                                                 |                              |                        | cfm                                       | 441 - 511 - 582 - 903                                       |
|                                                                                                                                                                 |                              | Heating                | m <sup>3</sup> /min                       | 12.0 - 14.5 - 16.5 - 25.6                                   |
|                                                                                                                                                                 |                              |                        | L/s                                       | 208 - 241 - 275 - 426                                       |
|                                                                                                                                                                 |                              |                        | cfm                                       | 441 - 511 - 582 - 903                                       |
| Sound pressure level (measured in anechoic room)                                                                                                                |                              |                        | (Low-Mid2-Mid1-High)                      |                                                             |
| *5                                                                                                                                                              | Cooling                      | dB (A)                 | 22.0 - 24.0 - 26.5 - 37.0                 |                                                             |
|                                                                                                                                                                 | Heating                      | dB (A)                 | 22.0 - 24.0 - 26.5 - 37.0                 |                                                             |
| Insulation material                                                                                                                                             |                              |                        | EPS, Polystyrene foam, Urethane foam      |                                                             |
| Air filter                                                                                                                                                      |                              |                        | PP honeycomb fabric.                      |                                                             |
| Protection device                                                                                                                                               |                              |                        | Fuse                                      |                                                             |
| Refrigerant control device                                                                                                                                      |                              |                        | LEV                                       |                                                             |
| Connectable outdoor unit                                                                                                                                        |                              |                        | R32, R410A CITY MULTI                     |                                                             |
| Refrigerant piping diameter                                                                                                                                     | Liquid                       | mm (in.)               | 6.35 (1/4)Braze                           |                                                             |
|                                                                                                                                                                 | Gas                          | mm (in.)               | 12.7 (1/2)Braze                           |                                                             |
| Field drain pipe size                                                                                                                                           |                              | mm (in.)               | O.D.φ32 (1-1/4)                           |                                                             |
| Drawing                                                                                                                                                         | External                     |                        | KB94CACX                                  |                                                             |
|                                                                                                                                                                 | Wiring                       |                        | KB94CAQS                                  |                                                             |
|                                                                                                                                                                 | Refrigerant cycle            |                        | -                                         |                                                             |
| Standard attachment                                                                                                                                             | Document                     |                        | Installation Manual, Instruction Book     |                                                             |
|                                                                                                                                                                 | Accessory                    |                        | Washer, Drain hose, Tie band              |                                                             |
| Optional parts                                                                                                                                                  | Filter box                   |                        | PAC-KE93TB-E                              |                                                             |
|                                                                                                                                                                 | Plasma Quad Connect          |                        | MAC-100FT-E                               |                                                             |
|                                                                                                                                                                 | PQ attachment (Rear inlet)   |                        | PAC-HA31PAR                               |                                                             |
|                                                                                                                                                                 | PQ attachment (Bottom inlet) |                        | PAC-HA31PAU                               |                                                             |
|                                                                                                                                                                 | PQ Box                       |                        | PAC-KE93PTB-E                             |                                                             |
| Remarks                                                                                                                                                         |                              |                        |                                           |                                                             |
| * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. |                              |                        |                                           |                                                             |
| * Due to continuing improvement, above specifications may be subject to change without notice.                                                                  |                              |                        |                                           |                                                             |
| Notes:                                                                                                                                                          |                              |                        |                                           | Unit converter                                              |
| 1.Nominal cooling conditions                                                                                                                                    |                              |                        |                                           | BTU/h =kW x 3,412                                           |
| Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)                                                                                               |                              |                        |                                           | cfm =m <sup>3</sup> /min x 35.31                            |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                        |                                           | lbs =kg/0.4536                                              |
| 2.The values are measured at the factory setting of external static pressure.                                                                                   |                              |                        |                                           |                                                             |
| The Air flow rate is measured by the conventional method in JIS.                                                                                                |                              |                        |                                           |                                                             |
| 3.Nominal heating conditions                                                                                                                                    |                              |                        |                                           |                                                             |
| Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)                                                                                                 |                              |                        |                                           |                                                             |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                        |                                           |                                                             |
| 4.The factory setting of airflow mode and external static pressure mode is shown without < >.                                                                   |                              |                        |                                           |                                                             |
| Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.                           |                              |                        |                                           |                                                             |
| 5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.   |                              |                        |                                           |                                                             |
|                                                                                                                                                                 |                              |                        |                                           | *Above specification data is subject to rounding variation. |

# 1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

| SPECIFICATIONS OF Air Conditioner                                                                                                                               |                              |                        | (Ceiling-concealed TYPE)                                    |                           |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------|-------------------------------------------------------------|---------------------------|--|
| MODEL                                                                                                                                                           |                              |                        | PEFY-MS63VMA-A1                                             |                           |  |
| Power source                                                                                                                                                    |                              |                        | 1-phase 220-230-240 V 50 Hz                                 |                           |  |
| Cooling capacity<br>(Nominal)                                                                                                                                   | *1                           | kW                     | 7.1                                                         |                           |  |
|                                                                                                                                                                 | *1                           | BTU/h                  | 24,200                                                      |                           |  |
|                                                                                                                                                                 | *2                           | Power input            | kW                                                          |                           |  |
|                                                                                                                                                                 | *2                           | Current input          | A                                                           |                           |  |
| Heating capacity<br>(Nominal)                                                                                                                                   | *3                           | kW                     | (220-230-240 V) 0.99-0.95-0.91                              |                           |  |
|                                                                                                                                                                 | *3                           | BTU/h                  | 8.0                                                         |                           |  |
|                                                                                                                                                                 | *2                           | Power input            | 27,300                                                      |                           |  |
|                                                                                                                                                                 | *2                           | Current input          | A                                                           |                           |  |
| External finish                                                                                                                                                 |                              |                        | (220-230-240 V) 1.55-1.48-1.42                              |                           |  |
| External dimension HxWxD                                                                                                                                        |                              |                        | Galvanized steel plate                                      |                           |  |
|                                                                                                                                                                 |                              |                        | 250 x 1100 x 732                                            |                           |  |
|                                                                                                                                                                 |                              |                        | in. 9-7/8 x 43-5/16 x 28-7/8                                |                           |  |
| Net weight                                                                                                                                                      |                              |                        | kg (lbs) 30.0 (66.0)                                        |                           |  |
| Heat exchanger                                                                                                                                                  |                              |                        | Cross fin (Aluminium fin and copper tube)                   |                           |  |
| FAN                                                                                                                                                             |                              |                        | Sirocco fan x 2                                             |                           |  |
| *4                                                                                                                                                              | Type x Quantity              |                        | 35 - <50> - <70> - <100> - <150>                            |                           |  |
|                                                                                                                                                                 | External static press.       | Pa                     | 3.6 - <5.1> - <7.1> - <10.2> - <15.3>                       |                           |  |
|                                                                                                                                                                 |                              | mmH <sub>2</sub> O     |                                                             |                           |  |
|                                                                                                                                                                 | Motor Type                   |                        | DC motor                                                    |                           |  |
|                                                                                                                                                                 | Motor output                 |                        | kW 0.121                                                    |                           |  |
|                                                                                                                                                                 | Driving mechanism            |                        | Direct-driven by motor                                      |                           |  |
|                                                                                                                                                                 | *2                           | Air flow rate          |                                                             | (Low-Mid2-Mid1-High)      |  |
|                                                                                                                                                                 |                              | Cooling                | m <sup>3</sup> /min                                         | 13.5 - 16.0 - 19.2 - 26.2 |  |
|                                                                                                                                                                 |                              |                        | L/s                                                         | 225 - 266 - 320 - 436     |  |
|                                                                                                                                                                 |                              |                        | cfm                                                         | 476 - 564 - 677 - 925     |  |
| Heating                                                                                                                                                         |                              | m <sup>3</sup> /min    | 13.5 - 16.0 - 19.2 - 31.0                                   |                           |  |
|                                                                                                                                                                 |                              | L/s                    | 225 - 266 - 320 - 516                                       |                           |  |
|                                                                                                                                                                 | cfm                          | 476 - 564 - 677 - 1094 |                                                             |                           |  |
| Sound pressure level (measured in anechoic room)                                                                                                                |                              |                        | (Low-Mid2-Mid1-High)                                        |                           |  |
| *5                                                                                                                                                              | Cooling                      | dB (A)                 | 23.0 - 26.0 - 30.0 - 37.5                                   |                           |  |
|                                                                                                                                                                 | Heating                      | dB (A)                 | 23.0 - 26.0 - 30.0 - 41.5                                   |                           |  |
| Insulation material                                                                                                                                             |                              |                        | EPS, Polystyrene foam, Urethane foam                        |                           |  |
| Air filter                                                                                                                                                      |                              |                        | PP honeycomb fabric.                                        |                           |  |
| Protection device                                                                                                                                               |                              |                        | Fuse                                                        |                           |  |
| Refrigerant control device                                                                                                                                      |                              |                        | LEV                                                         |                           |  |
| Connectable outdoor unit                                                                                                                                        |                              |                        | R32, R410A CITY MULTI                                       |                           |  |
| Refrigerant piping diameter                                                                                                                                     | Liquid *6                    | mm (in.)               | 6.35 (1/4)Brazed                                            |                           |  |
|                                                                                                                                                                 |                              |                        | 9.52 (3/8)Brazed                                            |                           |  |
|                                                                                                                                                                 | Gas                          | mm (in.)               | 15.88 (5/8)Brazed                                           |                           |  |
| Field drain pipe size                                                                                                                                           |                              | mm (in.)               | O.D.φ32 (1-1/4)                                             |                           |  |
| Drawing                                                                                                                                                         | External                     |                        | KB94CACX                                                    |                           |  |
|                                                                                                                                                                 | Wiring                       |                        | KB94CAQS                                                    |                           |  |
|                                                                                                                                                                 | Refrigerant cycle            |                        | -                                                           |                           |  |
| Standard attachment                                                                                                                                             | Document                     |                        | Installation Manual, Instruction Book                       |                           |  |
|                                                                                                                                                                 | Accessory                    |                        | Washer, Drain hose, Tie band                                |                           |  |
| Optional parts                                                                                                                                                  | Filter box                   |                        | PAC-KE93TB-E                                                |                           |  |
|                                                                                                                                                                 | Plasma Quad Connect          |                        | MAC-100FT-E                                                 |                           |  |
|                                                                                                                                                                 | PQ attachment (Rear inlet)   |                        | PAC-HA31PAR                                                 |                           |  |
|                                                                                                                                                                 | PQ attachment (Bottom inlet) |                        | PAC-HA31PAU                                                 |                           |  |
|                                                                                                                                                                 | PQ Box                       |                        | PAC-KE93PTB-E                                               |                           |  |
| Remarks                                                                                                                                                         |                              |                        |                                                             |                           |  |
| * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. |                              |                        |                                                             |                           |  |
| * Due to continuing improvement, above specifications may be subject to change without notice.                                                                  |                              |                        |                                                             |                           |  |
| Notes:                                                                                                                                                          |                              |                        | Unit converter                                              |                           |  |
| 1.Nominal cooling conditions                                                                                                                                    |                              |                        | BTU/h =kW x 3,412                                           |                           |  |
| Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)                                                                                               |                              |                        | cfm =m <sup>3</sup> /min x 35.31                            |                           |  |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                        | lbs =kg/0.4536                                              |                           |  |
| 2.The values are measured at the factory setting of external static pressure.                                                                                   |                              |                        |                                                             |                           |  |
| The Air flow rate is measured by the conventional method in JIS.                                                                                                |                              |                        |                                                             |                           |  |
| 3.Nominal heating conditions                                                                                                                                    |                              |                        |                                                             |                           |  |
| Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)                                                                                                 |                              |                        |                                                             |                           |  |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                        |                                                             |                           |  |
| 4.The factory setting of airflow mode and external static pressure mode is shown without < >.                                                                   |                              |                        |                                                             |                           |  |
| Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.                           |                              |                        |                                                             |                           |  |
| 5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.   |                              |                        |                                                             |                           |  |
| 6.It is possible to reduce the pipe size to Φ6.35 using a ""Reducer"" included in the accessory bag.                                                            |                              |                        |                                                             |                           |  |
| The pipe size required depends on the connected outdoor unit, so check the Outdoor Unit Installation Manual to confirm whether the Reducer can be used.         |                              |                        | *Above specification data is subject to rounding variation. |                           |  |

# 1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

| SPECIFICATIONS OF Air Conditioner                                                                                                                               |                                                  |                        | (Ceiling-concealed TYPE)                                    |                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------|-------------------------------------------------------------|---------------------------|
| MODEL                                                                                                                                                           |                                                  |                        | PEFY-MS71VMA-A1                                             |                           |
| Power source                                                                                                                                                    |                                                  |                        | 1-phase 220-230-240 V 50 Hz                                 |                           |
| Cooling capacity<br>(Nominal)                                                                                                                                   | *1                                               | kW                     | 8.0                                                         |                           |
|                                                                                                                                                                 | *1                                               | BTU/h                  | 27,300                                                      |                           |
|                                                                                                                                                                 | *2                                               | Power input            | 0.165                                                       |                           |
|                                                                                                                                                                 | *2                                               | Current input          | A (220-230-240 V) 1.16-1.11-1.06                            |                           |
| Heating capacity<br>(Nominal)                                                                                                                                   | *3                                               | kW                     | 9.0                                                         |                           |
|                                                                                                                                                                 | *3                                               | BTU/h                  | 30,700                                                      |                           |
|                                                                                                                                                                 | *2                                               | Power input            | 0.216                                                       |                           |
|                                                                                                                                                                 | *2                                               | Current input          | A (220-230-240 V) 1.47-1.41-1.35                            |                           |
| External finish                                                                                                                                                 |                                                  |                        | Galvanized steel plate                                      |                           |
| External dimension HxWxD                                                                                                                                        | mm                                               |                        | 250 x 1400 x 732                                            |                           |
|                                                                                                                                                                 | in.                                              |                        | 9-7/8 x 55-1/8 x 28-7/8                                     |                           |
| Net weight                                                                                                                                                      |                                                  |                        | kg (lbs) 37 (82)                                            |                           |
| Heat exchanger                                                                                                                                                  |                                                  |                        | Cross fin (Aluminium fin and copper tube)                   |                           |
| FAN                                                                                                                                                             | Type x Quantity                                  |                        | Sirocco fan x 3                                             |                           |
|                                                                                                                                                                 | *4                                               | External static press. | Pa 40 - <50> - <70> - <100> - <150>                         |                           |
|                                                                                                                                                                 |                                                  |                        | mmH <sub>2</sub> O 4.1 - <5.1> - <7.1> - <10.2> - <15.3>    |                           |
|                                                                                                                                                                 | Motor Type                                       |                        | DC motor                                                    |                           |
|                                                                                                                                                                 | Motor output                                     |                        | kW 0.300                                                    |                           |
|                                                                                                                                                                 | Driving mechanism                                |                        | Direct-driven by motor                                      |                           |
|                                                                                                                                                                 | *2                                               | Air flow rate          |                                                             | (Low-Mid2-Mid1-High)      |
|                                                                                                                                                                 |                                                  | Cooling                | m <sup>3</sup> /min                                         | 14.5 - 18.0 - 21.0 - 33.1 |
|                                                                                                                                                                 |                                                  |                        | L/s                                                         | 241 - 300 - 350 - 518     |
|                                                                                                                                                                 |                                                  |                        | cfm                                                         | 511 - 635 - 741 - 1098    |
|                                                                                                                                                                 |                                                  | Heating                | m <sup>3</sup> /min                                         | 14.5 - 18.0 - 21.0 - 36.6 |
|                                                                                                                                                                 |                                                  |                        | L/s                                                         | 241 - 300 - 350 - 610     |
|                                                                                                                                                                 |                                                  |                        | cfm                                                         | 511 - 635 - 741 - 1292    |
|                                                                                                                                                                 |                                                  |                        |                                                             |                           |
|                                                                                                                                                                 | Sound pressure level (measured in anechoic room) |                        |                                                             | (Low-Mid2-Mid1-High)      |
| *5                                                                                                                                                              | Cooling                                          | dB (A)                 | 22.0 - 25.0 - 27.5 - 38.5                                   |                           |
|                                                                                                                                                                 | Heating                                          | dB (A)                 | 22.0 - 25.0 - 27.5 - 40.5                                   |                           |
| Insulation material                                                                                                                                             |                                                  |                        | EPS, Polystyrene foam, Urethane foam                        |                           |
| Air filter                                                                                                                                                      |                                                  |                        | PP honeycomb fabric.                                        |                           |
| Protection device                                                                                                                                               |                                                  |                        | Fuse                                                        |                           |
| Refrigerant control device                                                                                                                                      |                                                  |                        | LEV                                                         |                           |
| Connectable outdoor unit                                                                                                                                        |                                                  |                        | R32, R410A CITY MULTI                                       |                           |
| Refrigerant piping diameter                                                                                                                                     | Liquid *6                                        | mm (in.)               | 6.35 (1/4)Brazed                                            |                           |
|                                                                                                                                                                 | Gas                                              | mm (in.)               | 9.52 (3/8)Brazed<br>15.88 (5/8)Brazed                       |                           |
| Field drain pipe size                                                                                                                                           |                                                  |                        | mm (in.) O.D.φ32 (1-1/4)                                    |                           |
| Drawing                                                                                                                                                         | External                                         |                        | KB94CACX                                                    |                           |
|                                                                                                                                                                 | Wiring                                           |                        | KB94CAQS                                                    |                           |
|                                                                                                                                                                 | Refrigerant cycle                                |                        | -                                                           |                           |
| Standard attachment                                                                                                                                             | Document                                         |                        | Installation Manual, Instruction Book                       |                           |
|                                                                                                                                                                 | Accessory                                        |                        | Washer, Drain hose, Tie band                                |                           |
| Optional parts                                                                                                                                                  | Filter box                                       |                        | PAC-KE94TB-E                                                |                           |
|                                                                                                                                                                 | Plasma Quad Connect                              |                        | MAC-100FT-E                                                 |                           |
|                                                                                                                                                                 | PQ attachment (Rear inlet)                       |                        | PAC-HA31PAR                                                 |                           |
|                                                                                                                                                                 | PQ attachment (Bottom inlet)                     |                        | PAC-HA31PAU                                                 |                           |
|                                                                                                                                                                 | PQ Box                                           |                        | PAC-KE94PTB-E                                               |                           |
| Remarks                                                                                                                                                         |                                                  |                        |                                                             |                           |
| * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. |                                                  |                        |                                                             |                           |
| * Due to continuing improvement, above specifications may be subject to change without notice.                                                                  |                                                  |                        |                                                             |                           |
| Notes:                                                                                                                                                          |                                                  |                        | Unit converter                                              |                           |
| 1.Nominal cooling conditions                                                                                                                                    |                                                  |                        | BTU/h =kW x 3,412                                           |                           |
| Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)                                                                                               |                                                  |                        | cfm =m <sup>3</sup> /min x 35.31                            |                           |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                                                  |                        | lbs =kg/0.4536                                              |                           |
| 2.The values are measured at the factory setting of external static pressure.                                                                                   |                                                  |                        |                                                             |                           |
| The Air flow rate is measured by the conventional method in JIS.                                                                                                |                                                  |                        |                                                             |                           |
| 3.Nominal heating conditions                                                                                                                                    |                                                  |                        |                                                             |                           |
| Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)                                                                                                 |                                                  |                        |                                                             |                           |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                                                  |                        |                                                             |                           |
| 4.The factory setting of airflow mode and external static pressure mode is shown without < > .                                                                  |                                                  |                        |                                                             |                           |
| Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.                           |                                                  |                        |                                                             |                           |
| 5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.   |                                                  |                        |                                                             |                           |
| 6.It is possible to reduce the pipe size to Φ6.35 using a ""Reducer"" included in the accessory bag.                                                            |                                                  |                        |                                                             |                           |
| The pipe size required depends on the connected outdoor unit, so check the Outdoor Unit Installation Manual to confirm whether the Reducer can be used.         |                                                  |                        | *Above specification data is subject to rounding variation. |                           |

# 1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

| SPECIFICATIONS OF Air Conditioner                                                                                                                               |  |                              |                        | (Ceiling-concealed TYPE)                                    |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------|------------------------|-------------------------------------------------------------|--|
| MODEL                                                                                                                                                           |  |                              |                        | PEFY-MS80VMA-A1                                             |  |
| Power source                                                                                                                                                    |  |                              |                        | 1-phase 220-230-240 V 50 Hz                                 |  |
| Cooling capacity                                                                                                                                                |  | *1                           | kW                     | 9.0                                                         |  |
| (Nominal)                                                                                                                                                       |  | *1                           | BTU/h                  | 30,700                                                      |  |
|                                                                                                                                                                 |  | *2                           | Power input            | 0.165                                                       |  |
|                                                                                                                                                                 |  | *2                           | Current input          | (220-230-240 V) 1.16-1.11-1.06                              |  |
| Heating capacity                                                                                                                                                |  | *3                           | kW                     | 10.0                                                        |  |
| (Nominal)                                                                                                                                                       |  | *3                           | BTU/h                  | 34,100                                                      |  |
|                                                                                                                                                                 |  | *2                           | Power input            | 0.216                                                       |  |
|                                                                                                                                                                 |  | *2                           | Current input          | (220-230-240 V) 1.47-1.41-1.35                              |  |
| External finish                                                                                                                                                 |  |                              |                        | Galvanized steel plate                                      |  |
| External dimension HxWxD                                                                                                                                        |  | mm                           |                        | 250 x 1400 x 732                                            |  |
|                                                                                                                                                                 |  | in.                          |                        | 9-7/8 x 55-1/8 x 28-7/8                                     |  |
| Net weight                                                                                                                                                      |  | kg (lbs)                     |                        | 37 (82)                                                     |  |
| Heat exchanger                                                                                                                                                  |  |                              |                        | Cross fin (Aluminium fin and copper tube)                   |  |
| FAN                                                                                                                                                             |  | Type x Quantity              |                        | Sirocco fan x 3                                             |  |
|                                                                                                                                                                 |  | *4                           | External static press. | Pa 40 - <50> - <70> - <100> - <150>                         |  |
|                                                                                                                                                                 |  |                              | mmH <sub>2</sub> O     | 4.1 - <5.1> - <7.1> - <10.2> - <15.3>                       |  |
|                                                                                                                                                                 |  | Motor Type                   |                        | DC motor                                                    |  |
|                                                                                                                                                                 |  | Motor output                 |                        | kW 0.300                                                    |  |
|                                                                                                                                                                 |  | Driving mechanism            |                        | Direct-driven by motor                                      |  |
|                                                                                                                                                                 |  | *2                           | Air flow rate          | (Low-Mid2-Mid1-High)                                        |  |
|                                                                                                                                                                 |  | Cooling                      | m <sup>3</sup> /min    | 14.5 - 18.0 - 21.0 - 33.1                                   |  |
|                                                                                                                                                                 |  |                              | L/s                    | 241 - 300 - 350 - 518                                       |  |
|                                                                                                                                                                 |  |                              | cfm                    | 511 - 635 - 741 - 1098                                      |  |
|                                                                                                                                                                 |  | Heating                      | m <sup>3</sup> /min    | 14.5 - 18.0 - 21.0 - 36.6                                   |  |
|                                                                                                                                                                 |  |                              | L/s                    | 241 - 300 - 350 - 610                                       |  |
|                                                                                                                                                                 |  |                              | cfm                    | 511 - 635 - 741 - 1292                                      |  |
| Sound pressure level (measured in anechoic room)                                                                                                                |  |                              |                        | (Low-Mid2-Mid1-High)                                        |  |
|                                                                                                                                                                 |  | *5                           | Cooling                | dB (A) 22.0 - 25.0 - 27.5 - 38.5                            |  |
|                                                                                                                                                                 |  |                              | Heating                | dB (A) 22.0 - 25.0 - 27.5 - 40.5                            |  |
| Insulation material                                                                                                                                             |  |                              |                        | EPS, Polystyrene foam, Urethane foam                        |  |
| Air filter                                                                                                                                                      |  |                              |                        | PP honeycomb fabric.                                        |  |
| Protection device                                                                                                                                               |  |                              |                        | Fuse                                                        |  |
| Refrigerant control device                                                                                                                                      |  |                              |                        | LEV                                                         |  |
| Connectable outdoor unit                                                                                                                                        |  |                              |                        | R32, R410A CITY MULTI                                       |  |
| Refrigerant piping diameter                                                                                                                                     |  | Liquid *6                    | mm (in.)               | 6.35 (1/4)Brazed                                            |  |
|                                                                                                                                                                 |  |                              |                        | 9.52 (3/8)Brazed                                            |  |
|                                                                                                                                                                 |  | Gas                          | mm (in.)               | 15.88 (5/8)Brazed                                           |  |
| Field drain pipe size                                                                                                                                           |  | mm (in.)                     |                        | O.D.φ32 (1-1/4)                                             |  |
| Drawing                                                                                                                                                         |  | External                     |                        | KB94CACX                                                    |  |
|                                                                                                                                                                 |  | Wiring                       |                        | KB94CAQS                                                    |  |
|                                                                                                                                                                 |  | Refrigerant cycle            |                        | -                                                           |  |
| Standard attachment                                                                                                                                             |  | Document                     |                        | Installation Manual, Instruction Book                       |  |
|                                                                                                                                                                 |  | Accessory                    |                        | Washer, Drain hose, Tie band                                |  |
| Optional parts                                                                                                                                                  |  | Filter box                   |                        | PAC-KE94TB-E                                                |  |
|                                                                                                                                                                 |  | Plasma Quad Connect          |                        | MAC-100FT-E                                                 |  |
|                                                                                                                                                                 |  | PQ attachment (Rear inlet)   |                        | PAC-HA31PAR                                                 |  |
|                                                                                                                                                                 |  | PQ attachment (Bottom inlet) |                        | PAC-HA31PAU                                                 |  |
|                                                                                                                                                                 |  | PQ Box                       |                        | PAC-KE94PTB-E                                               |  |
| Remarks                                                                                                                                                         |  |                              |                        |                                                             |  |
| * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. |  |                              |                        |                                                             |  |
| * Due to continuing improvement, above specifications may be subject to change without notice.                                                                  |  |                              |                        |                                                             |  |
| Notes:                                                                                                                                                          |  |                              |                        | Unit converter                                              |  |
| 1.Nominal cooling conditions                                                                                                                                    |  |                              |                        | BTU/h =kW x 3,412                                           |  |
| Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)                                                                                               |  |                              |                        | cfm =m <sup>3</sup> /min x 35.31                            |  |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |  |                              |                        | lbs =kg/0.4536                                              |  |
| 2.The values are measured at the factory setting of external static pressure.                                                                                   |  |                              |                        |                                                             |  |
| The Air flow rate is measured by the conventional method in JIS.                                                                                                |  |                              |                        |                                                             |  |
| 3.Nominal heating conditions                                                                                                                                    |  |                              |                        |                                                             |  |
| Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)                                                                                                 |  |                              |                        |                                                             |  |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |  |                              |                        |                                                             |  |
| 4.The factory setting of airflow mode and external static pressure mode is shown without < >.                                                                   |  |                              |                        |                                                             |  |
| Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.                           |  |                              |                        |                                                             |  |
| 5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.   |  |                              |                        |                                                             |  |
| 6.It is possible to reduce the pipe size to Φ6.35 using a ""Reducer"" included in the accessory bag.                                                            |  |                              |                        | *Above specification data is subject to rounding variation. |  |
| The pipe size required depends on the connected outdoor unit, so check the Outdoor Unit Installation Manual to confirm whether the Reducer can be used.         |  |                              |                        |                                                             |  |

# 1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

| SPECIFICATIONS OF Air Conditioner                                                                                                                               |                              |                        | (Ceiling-concealed TYPE)                      |                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------|-----------------------------------------------|-------------------------------------------------------------|
| MODEL                                                                                                                                                           |                              |                        | PEFY-MS100VMA-A1                              |                                                             |
| Power source                                                                                                                                                    |                              |                        | 1-phase 220-230-240 V 50 Hz                   |                                                             |
| Cooling capacity<br>(Nominal)                                                                                                                                   | *1                           | kW                     | 11.2                                          |                                                             |
|                                                                                                                                                                 | *1                           | BTU/h                  | 38,200                                        |                                                             |
|                                                                                                                                                                 | *2                           | Power input            | kW                                            | 0.211                                                       |
|                                                                                                                                                                 | *2                           | Current input          | A                                             | (220-230-240 V) 1.44-1.38-1.32                              |
| Heating capacity<br>(Nominal)                                                                                                                                   | *3                           | kW                     | 12.5                                          |                                                             |
|                                                                                                                                                                 | *3                           | BTU/h                  | 42,700                                        |                                                             |
|                                                                                                                                                                 | *2                           | Power input            | kW                                            | 0.209                                                       |
|                                                                                                                                                                 | *2                           | Current input          | A                                             | (220-230-240 V) 1.44-1.38-1.32                              |
| External finish                                                                                                                                                 |                              |                        | Galvanized steel plate                        |                                                             |
| External dimension HxWxD                                                                                                                                        |                              | mm                     | 250 x 1400 x 732                              |                                                             |
|                                                                                                                                                                 |                              | in.                    | 9-7/8 x 55-1/8 x 28-7/8                       |                                                             |
| Net weight                                                                                                                                                      |                              | kg (lbs)               | 37 (82)                                       |                                                             |
| Heat exchanger                                                                                                                                                  |                              |                        | Cross fin (Aluminium fin and copper tube)     |                                                             |
| FAN                                                                                                                                                             | Type x Quantity              |                        | Sirocco fan x 3                               |                                                             |
|                                                                                                                                                                 | *4                           | External static press. | Pa                                            | 40 - <50> - <70> - <100> - <150>                            |
|                                                                                                                                                                 |                              |                        | mmH <sub>2</sub> O                            | 4.1 - <5.1> - <7.1> - <10.2> - <15.3>                       |
|                                                                                                                                                                 | Motor Type                   |                        | DC motor                                      |                                                             |
|                                                                                                                                                                 | Motor output                 |                        | kW                                            | 0.300                                                       |
|                                                                                                                                                                 | Driving mechanism            |                        | Direct-driven by motor                        |                                                             |
|                                                                                                                                                                 | *2                           | Air flow rate          | (Low-Mid2-Mid1-High)                          |                                                             |
|                                                                                                                                                                 |                              |                        | Cooling                                       | m <sup>3</sup> /min 23.0 - 28.0 - 32.0 - 37.0               |
|                                                                                                                                                                 |                              |                        | L/s 383 - 466 - 533 - 616                     |                                                             |
|                                                                                                                                                                 |                              |                        | cfm 812 - 988 - 1129 - 1306                   |                                                             |
|                                                                                                                                                                 |                              | Heating                | m <sup>3</sup> /min 23.0 - 28.0 - 32.0 - 37.0 |                                                             |
| L/s 383 - 466 - 533 - 616                                                                                                                                       |                              |                        |                                               |                                                             |
| cfm 812 - 988 - 1129 - 1306                                                                                                                                     |                              |                        |                                               |                                                             |
|                                                                                                                                                                 |                              |                        |                                               |                                                             |
| Sound pressure level (measured in anechoic room)                                                                                                                |                              | (Low-Mid2-Mid1-High)   |                                               |                                                             |
| *5                                                                                                                                                              | Cooling                      | dB (A)                 | 29.5 - 34.0 - 37.5 - 40.0                     |                                                             |
|                                                                                                                                                                 | Heating                      | dB (A)                 | 29.5 - 34.0 - 37.5 - 40.0                     |                                                             |
| Insulation material                                                                                                                                             |                              |                        | EPS, Polystyrene foam, Urethane foam          |                                                             |
| Air filter                                                                                                                                                      |                              |                        | PP honeycomb fabric.                          |                                                             |
| Protection device                                                                                                                                               |                              |                        | Fuse                                          |                                                             |
| Refrigerant control device                                                                                                                                      |                              |                        | LEV                                           |                                                             |
| Connectable outdoor unit                                                                                                                                        |                              |                        | R32, R410A CITY MULTI                         |                                                             |
| Refrigerant piping diameter                                                                                                                                     | Liquid                       | mm (in.)               | 9.52 (3/8)Braze                               |                                                             |
|                                                                                                                                                                 | Gas                          | mm (in.)               | 15.88 (5/8)Braze                              |                                                             |
| Field drain pipe size                                                                                                                                           |                              | mm (in.)               | O.D.φ32 (1-1/4)                               |                                                             |
| Drawing                                                                                                                                                         | External                     |                        | KB94CACX                                      |                                                             |
|                                                                                                                                                                 | Wiring                       |                        | KB94CAQS                                      |                                                             |
|                                                                                                                                                                 | Refrigerant cycle            |                        | -                                             |                                                             |
| Standard attachment                                                                                                                                             | Document                     |                        | Installation Manual, Instruction Book         |                                                             |
|                                                                                                                                                                 | Accessory                    |                        | Washer, Drain hose, Tie band                  |                                                             |
| Optional parts                                                                                                                                                  | Filter box                   |                        | PAC-KE94TB-E                                  |                                                             |
|                                                                                                                                                                 | Plasma Quad Connect          |                        | MAC-100FT-E                                   |                                                             |
|                                                                                                                                                                 | PQ attachment (Rear inlet)   |                        | PAC-HA31PAR                                   |                                                             |
|                                                                                                                                                                 | PQ attachment (Bottom inlet) |                        | PAC-HA31PAU                                   |                                                             |
|                                                                                                                                                                 | PQ Box                       |                        | PAC-KE94PTB-E                                 |                                                             |
| Remarks                                                                                                                                                         |                              |                        |                                               |                                                             |
| * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. |                              |                        |                                               |                                                             |
| * Due to continuing improvement, above specifications may be subject to change without notice.                                                                  |                              |                        |                                               |                                                             |
| Notes:                                                                                                                                                          |                              |                        |                                               | Unit converter                                              |
| 1.Nominal cooling conditions                                                                                                                                    |                              |                        |                                               | BTU/h =kW x 3,412                                           |
| Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)                                                                                               |                              |                        |                                               | cfm =m <sup>3</sup> /min x 35.31                            |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                        |                                               | lbs =kg/0.4536                                              |
| 2.The values are measured at the factory setting of external static pressure.                                                                                   |                              |                        |                                               |                                                             |
| The Air flow rate is measured by the conventional method in JIS.                                                                                                |                              |                        |                                               |                                                             |
| 3.Nominal heating conditions                                                                                                                                    |                              |                        |                                               |                                                             |
| Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)                                                                                                 |                              |                        |                                               |                                                             |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                        |                                               |                                                             |
| 4.The factory setting of airflow mode and external static pressure mode is shown without < >.                                                                   |                              |                        |                                               |                                                             |
| Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.                           |                              |                        |                                               |                                                             |
| 5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.   |                              |                        |                                               |                                                             |
|                                                                                                                                                                 |                              |                        |                                               | *Above specification data is subject to rounding variation. |

# 1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

| SPECIFICATIONS OF Air Conditioner                                                                                                                               |                              |                        | (Ceiling-concealed TYPE)                  |                                                             |                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------|-------------------------------------------|-------------------------------------------------------------|---------------------------|
| MODEL                                                                                                                                                           |                              |                        | PEFY-MS125VMA-A1                          |                                                             |                           |
| Power source                                                                                                                                                    |                              |                        | 1-phase 220-230-240 V 50 Hz               |                                                             |                           |
| Cooling capacity<br>(Nominal)                                                                                                                                   | *1                           | kW                     | 14.0                                      |                                                             |                           |
|                                                                                                                                                                 | *1                           | BTU/h                  | 47,800                                    |                                                             |                           |
|                                                                                                                                                                 | *2                           | Power input            | 0.218                                     |                                                             |                           |
|                                                                                                                                                                 | *2                           | Current input          | (220-230-240 V)                           | 1.40-1.33-1.28                                              |                           |
| Heating capacity<br>(Nominal)                                                                                                                                   | *3                           | kW                     | 16.0                                      |                                                             |                           |
|                                                                                                                                                                 | *3                           | BTU/h                  | 54,600                                    |                                                             |                           |
|                                                                                                                                                                 | *2                           | Power input            | 0.216                                     |                                                             |                           |
|                                                                                                                                                                 | *2                           | Current input          | (220-230-240 V)                           | 1.40-1.33-1.28                                              |                           |
| External finish                                                                                                                                                 |                              |                        | Galvanized steel plate                    |                                                             |                           |
| External dimension HxWxD                                                                                                                                        |                              | mm                     | 250 x 1400 x 732                          |                                                             |                           |
|                                                                                                                                                                 |                              | in.                    | 9-7/8 x 55-1/8 x 28-7/8                   |                                                             |                           |
| Net weight                                                                                                                                                      |                              | kg (lbs)               | 38 (84)                                   |                                                             |                           |
| Heat exchanger                                                                                                                                                  |                              |                        | Cross fin (Aluminium fin and copper tube) |                                                             |                           |
| FAN                                                                                                                                                             | Type x Quantity              |                        | Sirocco fan x 3                           |                                                             |                           |
|                                                                                                                                                                 | *4                           | External static press. | Pa                                        | <40> - 50 - <70> - <100> - <150>                            |                           |
|                                                                                                                                                                 |                              |                        | mmH <sub>2</sub> O                        | <4.1> - 5.1 - <7.1> - <10.2> - <15.3>                       |                           |
|                                                                                                                                                                 | Motor Type                   |                        | DC motor                                  |                                                             |                           |
|                                                                                                                                                                 | Motor output                 |                        | kW                                        | 0.300                                                       |                           |
|                                                                                                                                                                 | Driving mechanism            |                        | Direct-driven by motor                    |                                                             |                           |
|                                                                                                                                                                 | *2                           | Air flow rate          | (Low-Mid2-Mid1-High)                      |                                                             |                           |
|                                                                                                                                                                 |                              |                        | Cooling                                   | m <sup>3</sup> /min                                         | 25.5 - 31.0 - 34.0 - 37.0 |
|                                                                                                                                                                 |                              |                        |                                           | L/s                                                         | 425 - 516 - 566 - 616     |
|                                                                                                                                                                 |                              |                        |                                           | cfm                                                         | 900 - 1094 - 1200 - 1306  |
|                                                                                                                                                                 |                              |                        | Heating                                   | m <sup>3</sup> /min                                         | 25.5 - 31.0 - 34.0 - 37.0 |
| L/s                                                                                                                                                             |                              |                        |                                           | 425 - 516 - 566 - 616                                       |                           |
| cfm                                                                                                                                                             |                              |                        |                                           | 900 - 1094 - 1200 - 1306                                    |                           |
| Sound pressure level (measured in anechoic room)                                                                                                                |                              |                        | (Low-Mid2-Mid1-High)                      |                                                             |                           |
| *5                                                                                                                                                              | Cooling                      | dB (A)                 | 31.5 - 36.5 - 38.5 - 40.5                 |                                                             |                           |
|                                                                                                                                                                 | Heating                      | dB (A)                 | 31.5 - 36.5 - 38.5 - 40.5                 |                                                             |                           |
| Insulation material                                                                                                                                             |                              |                        | EPS, Polystyrene foam, Urethane foam      |                                                             |                           |
| Air filter                                                                                                                                                      |                              |                        | PP honeycomb fabric.                      |                                                             |                           |
| Protection device                                                                                                                                               |                              |                        | Fuse                                      |                                                             |                           |
| Refrigerant control device                                                                                                                                      |                              |                        | LEV                                       |                                                             |                           |
| Connectable outdoor unit                                                                                                                                        |                              |                        | R32, R410A CITY MULTI                     |                                                             |                           |
| Refrigerant piping diameter                                                                                                                                     | Liquid                       | mm (in.)               | 9.52 (3/8)Brazed                          |                                                             |                           |
|                                                                                                                                                                 | Gas                          | mm (in.)               | 15.88 (5/8)Brazed                         |                                                             |                           |
| Field drain pipe size                                                                                                                                           |                              | mm (in.)               | O.D.φ32 (1-1/4)                           |                                                             |                           |
| Drawing                                                                                                                                                         | External                     |                        | KB94CACX                                  |                                                             |                           |
|                                                                                                                                                                 | Wiring                       |                        | KB94CAQS                                  |                                                             |                           |
|                                                                                                                                                                 | Refrigerant cycle            |                        | -                                         |                                                             |                           |
| Standard attachment                                                                                                                                             | Document                     |                        | Installation Manual, Instruction Book     |                                                             |                           |
|                                                                                                                                                                 | Accessory                    |                        | Washer, Drain hose, Tie band              |                                                             |                           |
| Optional parts                                                                                                                                                  | Filter box                   |                        | PAC-KE94TB-E                              |                                                             |                           |
|                                                                                                                                                                 | Plasma Quad Connect          |                        | MAC-100FT-E                               |                                                             |                           |
|                                                                                                                                                                 | PQ attachment (Rear inlet)   |                        | PAC-HA31PAR                               |                                                             |                           |
|                                                                                                                                                                 | PQ attachment (Bottom inlet) |                        | PAC-HA31PAU                               |                                                             |                           |
|                                                                                                                                                                 | PQ Box                       |                        | PAC-KE94PTB-E                             |                                                             |                           |
| Remarks                                                                                                                                                         |                              |                        |                                           |                                                             |                           |
| * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. |                              |                        |                                           |                                                             |                           |
| * Due to continuing improvement, above specifications may be subject to change without notice.                                                                  |                              |                        |                                           |                                                             |                           |
| Notes:                                                                                                                                                          |                              |                        |                                           | Unit converter                                              |                           |
| 1.Nominal cooling conditions                                                                                                                                    |                              |                        |                                           | BTU/h =kW x 3,412                                           |                           |
| Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)                                                                                               |                              |                        |                                           | cfm =m <sup>3</sup> /min x 35.31                            |                           |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                        |                                           | lbs =kg/0.4536                                              |                           |
| 2.The values are measured at the factory setting of external static pressure.                                                                                   |                              |                        |                                           |                                                             |                           |
| The Air flow rate is measured by the conventional method in JIS.                                                                                                |                              |                        |                                           |                                                             |                           |
| 3.Nominal heating conditions                                                                                                                                    |                              |                        |                                           |                                                             |                           |
| Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)                                                                                                 |                              |                        |                                           |                                                             |                           |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                        |                                           |                                                             |                           |
| 4.The factory setting of airflow mode and external static pressure mode is shown without < >.                                                                   |                              |                        |                                           |                                                             |                           |
| Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.                           |                              |                        |                                           |                                                             |                           |
| 5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.   |                              |                        |                                           |                                                             |                           |
|                                                                                                                                                                 |                              |                        |                                           | *Above specification data is subject to rounding variation. |                           |

# 1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

| SPECIFICATIONS OF Air Conditioner                                                                                                                               |                              |                        | (Ceiling-concealed TYPE)                                    |                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------|-------------------------------------------------------------|---------------------------------------|
| MODEL                                                                                                                                                           |                              |                        | PEFY-MS140VMA-A1                                            |                                       |
| Power source                                                                                                                                                    |                              |                        | 1-phase 220-230-240 V 50 Hz                                 |                                       |
| Cooling capacity<br>(Nominal)                                                                                                                                   | *1                           | kW                     | 16.0                                                        |                                       |
|                                                                                                                                                                 | *1                           | BTU/h                  | 54,600                                                      |                                       |
|                                                                                                                                                                 | *2                           | Power input            | kW                                                          | 0.282                                 |
|                                                                                                                                                                 | *2                           | Current input          | A                                                           | (220-230-240 V) 1.84-1.76-1.69        |
| Heating capacity<br>(Nominal)                                                                                                                                   | *3                           | kW                     | 18.0                                                        |                                       |
|                                                                                                                                                                 | *3                           | BTU/h                  | 61,400                                                      |                                       |
|                                                                                                                                                                 | *2                           | Power input            | kW                                                          | 0.280                                 |
|                                                                                                                                                                 | *2                           | Current input          | A                                                           | (220-230-240 V) 1.84-1.76-1.69        |
| External finish                                                                                                                                                 |                              |                        | Galvanized steel plate                                      |                                       |
| External dimension HxWxD                                                                                                                                        |                              | mm                     | 250 x 1600 x 732                                            |                                       |
|                                                                                                                                                                 |                              | in.                    | 9-7/8 x 63 x 28-7/8                                         |                                       |
| Net weight                                                                                                                                                      |                              | kg (lbs)               | 42 (93)                                                     |                                       |
| Heat exchanger                                                                                                                                                  |                              |                        | Cross fin (Aluminium fin and copper tube)                   |                                       |
| FAN                                                                                                                                                             | Type x Quantity              |                        | Sirocco fan x 3                                             |                                       |
|                                                                                                                                                                 | *4                           | External static press. | Pa                                                          | <40> - 50 - <70> - <100> - <150>      |
|                                                                                                                                                                 |                              |                        | mmH <sub>2</sub> O                                          | <4.1> - 5.1 - <7.1> - <10.2> - <15.3> |
|                                                                                                                                                                 |                              | Motor Type             |                                                             | DC motor                              |
|                                                                                                                                                                 |                              | Motor output           |                                                             | kW                                    |
|                                                                                                                                                                 | Driving mechanism            |                        | Direct-driven by motor                                      |                                       |
|                                                                                                                                                                 | *2                           | Air flow rate          | (Low-Mid2-Mid1-High)                                        |                                       |
|                                                                                                                                                                 |                              |                        | Cooling                                                     | m <sup>3</sup> /min                   |
|                                                                                                                                                                 |                              |                        | L/s                                                         | 491 - 591 - 666 - 733                 |
|                                                                                                                                                                 |                              |                        | cfm                                                         | 1041 - 1253 - 1412 - 1553             |
|                                                                                                                                                                 |                              | Heating                | m <sup>3</sup> /min                                         | 29.5 - 35.5 - 40.0 - 44.0             |
|                                                                                                                                                                 |                              |                        | L/s                                                         | 491 - 591 - 666 - 733                 |
|                                                                                                                                                                 |                              |                        | cfm                                                         | 1041 - 1253 - 1412 - 1553             |
| Sound pressure level (measured in anechoic room)                                                                                                                |                              |                        | (Low-Mid2-Mid1-High)                                        |                                       |
| *5                                                                                                                                                              | Cooling                      | dB (A)                 | 34.0 - 38.0 - 40.5 - 43.0                                   |                                       |
|                                                                                                                                                                 | Heating                      | dB (A)                 | 34.0 - 38.0 - 40.5 - 43.0                                   |                                       |
| Insulation material                                                                                                                                             |                              |                        | EPS, Polystyrene foam, Urethane foam                        |                                       |
| Air filter                                                                                                                                                      |                              |                        | PP honeycomb fabric.                                        |                                       |
| Protection device                                                                                                                                               |                              |                        | Fuse                                                        |                                       |
| Refrigerant control device                                                                                                                                      |                              |                        | LEV                                                         |                                       |
| Connectable outdoor unit                                                                                                                                        |                              |                        | R32, R410A CITY MULTI                                       |                                       |
| Refrigerant piping diameter                                                                                                                                     | Liquid                       | mm (in.)               | 9.52 (3/8)Brazed                                            |                                       |
|                                                                                                                                                                 | Gas                          | mm (in.)               | 15.88 (5/8)Brazed                                           |                                       |
| Field drain pipe size                                                                                                                                           |                              | mm (in.)               | O.D.φ32 (1-1/4)                                             |                                       |
| Drawing                                                                                                                                                         | External                     |                        | KB94CACX                                                    |                                       |
|                                                                                                                                                                 | Wiring                       |                        | KB94CAQS                                                    |                                       |
|                                                                                                                                                                 | Refrigerant cycle            |                        | -                                                           |                                       |
| Standard attachment                                                                                                                                             | Document                     |                        | Installation Manual, Instruction Book                       |                                       |
|                                                                                                                                                                 | Accessory                    |                        | Washer, Drain hose, Tie band                                |                                       |
| Optional parts                                                                                                                                                  | Filter box                   |                        | PAC-KE95TB-E                                                |                                       |
|                                                                                                                                                                 | Plasma Quad Connect          |                        | MAC-100FT-E                                                 |                                       |
|                                                                                                                                                                 | PQ attachment (Rear inlet)   |                        | PAC-HA31PAR                                                 |                                       |
|                                                                                                                                                                 | PQ attachment (Bottom inlet) |                        | PAC-HA31PAU                                                 |                                       |
|                                                                                                                                                                 | PQ Box                       |                        | PAC-KE95PTB-E                                               |                                       |
| Remarks                                                                                                                                                         |                              |                        |                                                             |                                       |
| * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. |                              |                        |                                                             |                                       |
| * Due to continuing improvement, above specifications may be subject to change without notice.                                                                  |                              |                        |                                                             |                                       |
| Notes:                                                                                                                                                          |                              |                        | Unit converter                                              |                                       |
| 1.Nominal cooling conditions                                                                                                                                    |                              |                        | BTU/h =kW x 3,412                                           |                                       |
| Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)                                                                                               |                              |                        | cfm =m <sup>3</sup> /min x 35.31                            |                                       |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                        | lbs =kg/0.4536                                              |                                       |
| 2.The values are measured at the factory setting of external static pressure.                                                                                   |                              |                        |                                                             |                                       |
| The Air flow rate is measured by the conventional method in JIS.                                                                                                |                              |                        |                                                             |                                       |
| 3.Nominal heating conditions                                                                                                                                    |                              |                        |                                                             |                                       |
| Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)                                                                                                 |                              |                        |                                                             |                                       |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                        |                                                             |                                       |
| 4.The factory setting of airflow mode and external static pressure mode is shown without < >.                                                                   |                              |                        |                                                             |                                       |
| Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.                           |                              |                        |                                                             |                                       |
| 5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.   |                              |                        |                                                             |                                       |
|                                                                                                                                                                 |                              |                        | *Above specification data is subject to rounding variation. |                                       |

# 1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

| SPECIFICATIONS OF Air Conditioner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                              |                    | (Ceiling-concealed TYPE)                                    |                           |                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------|-------------------------------------------------------------|---------------------------|------------------------|
| MODEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |                    | PEFY-MS20VMAL-A1                                            |                           |                        |
| Power source                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |                    | 1-phase 220-230-240 V 50 Hz                                 |                           |                        |
| Cooling capacity<br>(Nominal)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *1                           | kW                 | 2.2                                                         |                           |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | *1                           | BTU/h              | 7,500                                                       |                           |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | *2                           | Power input        | 0.037                                                       |                           |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | *2                           | Current input      | (220-230-240 V) 0.34-0.33-0.32                              |                           |                        |
| Heating capacity<br>(Nominal)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *3                           | kW                 | 2.5                                                         |                           |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | *3                           | BTU/h              | 8,500                                                       |                           |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | *2                           | Power input        | 0.037                                                       |                           |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | *2                           | Current input      | (220-230-240 V) 0.34-0.33-0.32                              |                           |                        |
| External finish                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |                    | Galvanized steel plate                                      |                           |                        |
| External dimension HxWxD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                              | mm                 | 250 x 700 x 732                                             |                           |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              | in.                | 9-7/8 x 27-9/16 x 28-7/8                                    |                           |                        |
| Net weight                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                              | kg (lbs)           | 20.0 (44.0)                                                 |                           |                        |
| Heat exchanger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |                    | Cross fin (Aluminium fin and copper tube)                   |                           |                        |
| FAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Type x Quantity              |                    | Sirocco fan x 1                                             |                           |                        |
| *4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | External static press.       | Pa                 | 35 - <50> - <70> - <100> - <150>                            |                           |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              | mmH <sub>2</sub> O | 3.6 - <5.1> - <7.1> - <10.2> - <15.3>                       |                           |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Motor Type                   |                    | DC motor                                                    |                           |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Motor output                 | kW                 | 0.085                                                       |                           |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Driving mechanism            |                    | Direct-driven by motor                                      |                           |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | *2                           | Air flow rate      |                                                             | (Low-Mid2-Mid1-High)      |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |                    | Cooling                                                     | m <sup>3</sup> /min       | 6.0 - 7.0 - 8.5 - 10.0 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |                    |                                                             | L/s                       | 100 - 116 - 142 - 166  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |                    |                                                             | cfm                       | 212 - 247 - 300 - 353  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              | Heating            | m <sup>3</sup> /min                                         | 6.0 - 7.0 - 8.5 - 10.0    |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |                    | L/s                                                         | 100 - 116 - 142 - 166     |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |                    | cfm                                                         | 212 - 247 - 300 - 353     |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |                    | Sound pressure level (measured in anechoic room)            |                           | (Low-Mid2-Mid1-High)   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | *5                           | Cooling            | dB (A)                                                      | 21.5 - 23.0 - 26.5 - 30.0 |                        |
| Heating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              | dB (A)             | 21.5 - 23.0 - 26.5 - 30.0                                   |                           |                        |
| Insulation material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                              |                    | EPS, Polystyrene foam, Urethane foam                        |                           |                        |
| Air filter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                              |                    | PP honeycomb fabric.                                        |                           |                        |
| Protection device                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                              |                    | Fuse                                                        |                           |                        |
| Refrigerant control device                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                              |                    | LEV                                                         |                           |                        |
| Connectable outdoor unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                              |                    | R32, R410A CITY MULTI                                       |                           |                        |
| Refrigerant piping diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Liquid                       | mm (in.)           | 6.35 (1/4)Brazed                                            |                           |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Gas                          | mm (in.)           | 12.7 (1/2)Brazed                                            |                           |                        |
| Field drain pipe size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              | mm (in.)           | O.D.φ32 (1-1/4)                                             |                           |                        |
| Drawing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | External                     |                    | KB94CACY                                                    |                           |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Wiring                       |                    | KB94CAQS                                                    |                           |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Refrigerant cycle            |                    | -                                                           |                           |                        |
| Standard attachment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Document                     |                    | Installation Manual, Instruction Book                       |                           |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Accessory                    |                    | Washer, Drain hose, Tie band                                |                           |                        |
| Optional parts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Filter box                   |                    | PAC-KE91TB-E                                                |                           |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Plasma Quad Connect          |                    | MAC-100FT-E                                                 |                           |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PQ attachment (Rear inlet)   |                    | PAC-HA31PAR                                                 |                           |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PQ attachment (Bottom inlet) |                    | PAC-HA31PAU                                                 |                           |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PQ Box                       |                    | PAC-KE91PTB-E                                               |                           |                        |
| Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |                    |                                                             |                           |                        |
| * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |                    |                                                             |                           |                        |
| * Due to continuing improvement, above specifications may be subject to change without notice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |                    |                                                             |                           |                        |
| Notes:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                              |                    | Unit converter                                              |                           |                        |
| 1.Nominal cooling conditions<br>Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)<br>Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)<br>2.The values are measured at the factory setting of external static pressure.<br>The Air flow rate is measured by the conventional method in JIS.<br>3.Nominal heating conditions<br>Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)<br>Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)<br>4.The factory setting of airflow mode and external static pressure mode is shown without < >.<br>Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.<br>5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2. |                              |                    | BTU/h =kW x 3,412                                           |                           |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |                    | cfm =m <sup>3</sup> /min x 35.31                            |                           |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |                    | lbs =kg/0.4536                                              |                           |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |                    |                                                             |                           |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |                    |                                                             |                           |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |                    | *Above specification data is subject to rounding variation. |                           |                        |

# 1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

| SPECIFICATIONS OF Air Conditioner                                                                                                                               |                              |                        | (Ceiling-concealed TYPE)                                    |                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------|-------------------------------------------------------------|---------------------------------------|
| MODEL                                                                                                                                                           |                              |                        | PEFY-MS25VMAL-A1                                            |                                       |
| Power source                                                                                                                                                    |                              |                        | 1-phase 220-230-240 V 50 Hz                                 |                                       |
| Cooling capacity<br>(Nominal)                                                                                                                                   | *1                           | kW                     | 2.8                                                         |                                       |
|                                                                                                                                                                 | *1                           | BTU/h                  | 9,600                                                       |                                       |
|                                                                                                                                                                 | *2                           | Power input            | kW                                                          | 0.037                                 |
|                                                                                                                                                                 | *2                           | Current input          | A                                                           | (220-230-240 V) 0.34-0.33-0.32        |
| Heating capacity<br>(Nominal)                                                                                                                                   | *3                           | kW                     | 3.2                                                         |                                       |
|                                                                                                                                                                 | *3                           | BTU/h                  | 10,900                                                      |                                       |
|                                                                                                                                                                 | *2                           | Power input            | kW                                                          | 0.037                                 |
|                                                                                                                                                                 | *2                           | Current input          | A                                                           | (220-230-240 V) 0.34-0.33-0.32        |
| External finish                                                                                                                                                 |                              |                        | Galvanized steel plate                                      |                                       |
| External dimension HxWxD                                                                                                                                        | mm                           |                        | 250 x 700 x 732                                             |                                       |
|                                                                                                                                                                 | in.                          |                        | 9-7/8 x 27-9/16 x 28-7/8                                    |                                       |
| Net weight                                                                                                                                                      |                              |                        | kg (lbs) 20.0 (44.0)                                        |                                       |
| Heat exchanger                                                                                                                                                  |                              |                        | Cross fin (Aluminium fin and copper tube)                   |                                       |
| FAN                                                                                                                                                             | Type x Quantity              |                        | Sirocco fan x 1                                             |                                       |
|                                                                                                                                                                 | *4                           | External static press. | Pa                                                          | 35 - <50> - <70> - <100> - <150>      |
|                                                                                                                                                                 |                              |                        | mmH <sub>2</sub> O                                          | 3.6 - <5.1> - <7.1> - <10.2> - <15.3> |
|                                                                                                                                                                 | Motor Type                   |                        | DC motor                                                    |                                       |
|                                                                                                                                                                 | Motor output                 |                        | kW 0.085                                                    |                                       |
|                                                                                                                                                                 | Driving mechanism            |                        | Direct-driven by motor                                      |                                       |
|                                                                                                                                                                 | *2                           | Air flow rate          |                                                             | (Low-Mid2-Mid1-High)                  |
|                                                                                                                                                                 |                              | Cooling                | m <sup>3</sup> /min                                         | 6.0 - 7.0 - 8.5 - 10.0                |
|                                                                                                                                                                 |                              |                        | L/s                                                         | 100 - 116 - 142 - 166                 |
|                                                                                                                                                                 |                              |                        | cfm                                                         | 212 - 247 - 300 - 353                 |
|                                                                                                                                                                 |                              | Heating                | m <sup>3</sup> /min                                         | 6.0 - 7.0 - 8.5 - 10.0                |
|                                                                                                                                                                 |                              |                        | L/s                                                         | 100 - 116 - 142 - 166                 |
|                                                                                                                                                                 |                              |                        | cfm                                                         | 212 - 247 - 300 - 353                 |
|                                                                                                                                                                 |                              |                        | Sound pressure level (measured in anechoic room)            |                                       |
|                                                                                                                                                                 | *5                           | Cooling                | dB (A)                                                      | 21.5 - 23.0 - 26.5 - 30.0             |
| Heating                                                                                                                                                         |                              | dB (A)                 | 21.5 - 23.0 - 26.5 - 30.0                                   |                                       |
| Insulation material                                                                                                                                             |                              |                        | EPS, Polystyrene foam, Urethane foam                        |                                       |
| Air filter                                                                                                                                                      |                              |                        | PP honeycomb fabric.                                        |                                       |
| Protection device                                                                                                                                               |                              |                        | Fuse                                                        |                                       |
| Refrigerant control device                                                                                                                                      |                              |                        | LEV                                                         |                                       |
| Connectable outdoor unit                                                                                                                                        |                              |                        | R32, R410A CITY MULTI                                       |                                       |
| Refrigerant piping diameter                                                                                                                                     | Liquid                       | mm (in.)               | 6.35 (1/4)Braze                                             |                                       |
|                                                                                                                                                                 | Gas                          | mm (in.)               | 12.7 (1/2)Braze                                             |                                       |
| Field drain pipe size                                                                                                                                           |                              |                        | mm (in.) O.D.φ32 (1-1/4)                                    |                                       |
| Drawing                                                                                                                                                         | External                     |                        | KB94CACY                                                    |                                       |
|                                                                                                                                                                 | Wiring                       |                        | KB94CAQS                                                    |                                       |
|                                                                                                                                                                 | Refrigerant cycle            |                        | -                                                           |                                       |
| Standard attachment                                                                                                                                             | Document                     |                        | Installation Manual, Instruction Book                       |                                       |
|                                                                                                                                                                 | Accessory                    |                        | Washer, Drain hose, Tie band                                |                                       |
| Optional parts                                                                                                                                                  | Filter box                   |                        | PAC-KE91TB-E                                                |                                       |
|                                                                                                                                                                 | Plasma Quad Connect          |                        | MAC-100FT-E                                                 |                                       |
|                                                                                                                                                                 | PQ attachment (Rear inlet)   |                        | PAC-HA31PAR                                                 |                                       |
|                                                                                                                                                                 | PQ attachment (Bottom inlet) |                        | PAC-HA31PAU                                                 |                                       |
|                                                                                                                                                                 | PQ Box                       |                        | PAC-KE91PTB-E                                               |                                       |
| Remarks                                                                                                                                                         |                              |                        |                                                             |                                       |
| * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. |                              |                        |                                                             |                                       |
| * Due to continuing improvement, above specifications may be subject to change without notice.                                                                  |                              |                        |                                                             |                                       |
| Notes:                                                                                                                                                          |                              |                        | Unit converter                                              |                                       |
| 1.Nominal cooling conditions                                                                                                                                    |                              |                        | BTU/h =kW x 3,412                                           |                                       |
| Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)                                                                                               |                              |                        | cfm =m <sup>3</sup> /min x 35.31                            |                                       |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                        | lbs =kg/0.4536                                              |                                       |
| 2.The values are measured at the factory setting of external static pressure.                                                                                   |                              |                        |                                                             |                                       |
| The Air flow rate is measured by the conventional method in JIS.                                                                                                |                              |                        |                                                             |                                       |
| 3.Nominal heating conditions                                                                                                                                    |                              |                        |                                                             |                                       |
| Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)                                                                                                 |                              |                        |                                                             |                                       |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                        |                                                             |                                       |
| 4.The factory setting of airflow mode and external static pressure mode is shown without < >.                                                                   |                              |                        |                                                             |                                       |
| Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.                           |                              |                        |                                                             |                                       |
| 5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.   |                              |                        |                                                             |                                       |
|                                                                                                                                                                 |                              |                        | *Above specification data is subject to rounding variation. |                                       |

# 1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

| SPECIFICATIONS OF Air Conditioner                                                                                                                               |                              |                        | (Ceiling-concealed TYPE)                  |                                                             |                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------|-------------------------------------------|-------------------------------------------------------------|-------------------------|
| MODEL                                                                                                                                                           |                              |                        | PEFY-MS32VMAL-A1                          |                                                             |                         |
| Power source                                                                                                                                                    |                              |                        | 1-phase 220-230-240 V 50 Hz               |                                                             |                         |
| Cooling capacity<br>(Nominal)                                                                                                                                   | *1                           | kW                     | 3.6                                       |                                                             |                         |
|                                                                                                                                                                 | *1                           | BTU/h                  | 12,300                                    |                                                             |                         |
|                                                                                                                                                                 | *2                           | Power input            | kW                                        |                                                             |                         |
|                                                                                                                                                                 | *2                           | Current input          | A                                         |                                                             |                         |
|                                                                                                                                                                 |                              |                        | (220-230-240 V)                           |                                                             |                         |
| Heating capacity<br>(Nominal)                                                                                                                                   | *3                           | kW                     | 4.0                                       |                                                             |                         |
|                                                                                                                                                                 | *3                           | BTU/h                  | 13,600                                    |                                                             |                         |
|                                                                                                                                                                 | *2                           | Power input            | kW                                        |                                                             |                         |
|                                                                                                                                                                 | *2                           | Current input          | A                                         |                                                             |                         |
|                                                                                                                                                                 |                              |                        | (220-230-240 V)                           |                                                             |                         |
| External finish                                                                                                                                                 |                              |                        | Galvanized steel plate                    |                                                             |                         |
| External dimension HxWxD                                                                                                                                        |                              | mm                     | 250 x 700 x 732                           |                                                             |                         |
|                                                                                                                                                                 |                              | in.                    | 9-7/8 x 27-9/16 x 28-7/8                  |                                                             |                         |
| Net weight                                                                                                                                                      |                              | kg (lbs)               | 20.5 (45.0)                               |                                                             |                         |
| Heat exchanger                                                                                                                                                  |                              |                        | Cross fin (Aluminium fin and copper tube) |                                                             |                         |
| FAN                                                                                                                                                             |                              |                        | Sirocco fan x 1                           |                                                             |                         |
|                                                                                                                                                                 | *4                           | External static press. | Pa                                        | 35 - <50> - <70> - <100> - <150>                            |                         |
|                                                                                                                                                                 |                              |                        | mmH <sub>2</sub> O                        | 3.6 - <5.1> - <7.1> - <10.2> - <15.3>                       |                         |
|                                                                                                                                                                 | Motor Type                   |                        | DC motor                                  |                                                             |                         |
|                                                                                                                                                                 | Motor output                 |                        | kW                                        | 0.085                                                       |                         |
|                                                                                                                                                                 | Driving mechanism            |                        | Direct-driven by motor                    |                                                             |                         |
|                                                                                                                                                                 | *2                           | Air flow rate          | (Low-Mid2-Mid1-High)                      |                                                             |                         |
|                                                                                                                                                                 |                              |                        | Cooling                                   | m <sup>3</sup> /min                                         | 7.4 - 9.0 - 10.5 - 12.5 |
|                                                                                                                                                                 |                              |                        |                                           | L/s                                                         | 123 - 150 - 175 - 208   |
|                                                                                                                                                                 |                              |                        |                                           | cfm                                                         | 261 - 317 - 370 - 441   |
|                                                                                                                                                                 |                              |                        | Heating                                   | m <sup>3</sup> /min                                         | 7.4 - 9.0 - 10.5 - 12.5 |
|                                                                                                                                                                 |                              |                        |                                           | L/s                                                         | 123 - 150 - 175 - 208   |
|                                                                                                                                                                 |                              |                        |                                           | cfm                                                         | 261 - 317 - 370 - 441   |
| Sound pressure level (measured in anechoic room)                                                                                                                |                              |                        | (Low-Mid2-Mid1-High)                      |                                                             |                         |
| *5                                                                                                                                                              | Cooling                      | dB (A)                 | 24.0 - 28.0 - 31.5 - 35.5                 |                                                             |                         |
|                                                                                                                                                                 | Heating                      | dB (A)                 | 24.0 - 28.0 - 31.5 - 35.5                 |                                                             |                         |
| Insulation material                                                                                                                                             |                              |                        | EPS, Polystyrene foam, Urethane foam      |                                                             |                         |
| Air filter                                                                                                                                                      |                              |                        | PP honeycomb fabric.                      |                                                             |                         |
| Protection device                                                                                                                                               |                              |                        | Fuse                                      |                                                             |                         |
| Refrigerant control device                                                                                                                                      |                              |                        | LEV                                       |                                                             |                         |
| Connectable outdoor unit                                                                                                                                        |                              |                        | R32, R410A CITY MULTI                     |                                                             |                         |
| Refrigerant piping diameter                                                                                                                                     | Liquid                       | mm (in.)               | 6.35 (1/4)Brazed                          |                                                             |                         |
|                                                                                                                                                                 | Gas                          | mm (in.)               | 12.7 (1/2)Brazed                          |                                                             |                         |
| Field drain pipe size                                                                                                                                           |                              | mm (in.)               | O.D.φ32 (1-1/4)                           |                                                             |                         |
| Drawing                                                                                                                                                         | External                     |                        | KB94CACY                                  |                                                             |                         |
|                                                                                                                                                                 | Wiring                       |                        | KB94CAQS                                  |                                                             |                         |
|                                                                                                                                                                 | Refrigerant cycle            |                        | -                                         |                                                             |                         |
| Standard attachment                                                                                                                                             | Document                     |                        | Installation Manual, Instruction Book     |                                                             |                         |
|                                                                                                                                                                 | Accessory                    |                        | Washer, Drain hose, Tie band              |                                                             |                         |
| Optional parts                                                                                                                                                  | Filter box                   |                        | PAC-KE91TB-E                              |                                                             |                         |
|                                                                                                                                                                 | Plasma Quad Connect          |                        | MAC-100FT-E                               |                                                             |                         |
|                                                                                                                                                                 | PQ attachment (Rear inlet)   |                        | PAC-HA31PAR                               |                                                             |                         |
|                                                                                                                                                                 | PQ attachment (Bottom inlet) |                        | PAC-HA31PAU                               |                                                             |                         |
|                                                                                                                                                                 | PQ Box                       |                        | PAC-KE91PTB-E                             |                                                             |                         |
| Remarks                                                                                                                                                         |                              |                        |                                           |                                                             |                         |
| * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. |                              |                        |                                           |                                                             |                         |
| * Due to continuing improvement, above specifications may be subject to change without notice.                                                                  |                              |                        |                                           |                                                             |                         |
| Notes:                                                                                                                                                          |                              |                        |                                           | Unit converter                                              |                         |
| 1.Nominal cooling conditions                                                                                                                                    |                              |                        |                                           | BTU/h =kW x 3,412                                           |                         |
| Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)                                                                                               |                              |                        |                                           | cfm =m <sup>3</sup> /min x 35.31                            |                         |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                        |                                           | lbs =kg/0.4536                                              |                         |
| 2.The values are measured at the factory setting of external static pressure.                                                                                   |                              |                        |                                           |                                                             |                         |
| The Air flow rate is measured by the conventional method in JIS.                                                                                                |                              |                        |                                           |                                                             |                         |
| 3.Nominal heating conditions                                                                                                                                    |                              |                        |                                           |                                                             |                         |
| Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)                                                                                                 |                              |                        |                                           |                                                             |                         |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                        |                                           |                                                             |                         |
| 4.The factory setting of airflow mode and external static pressure mode is shown without < >.                                                                   |                              |                        |                                           |                                                             |                         |
| Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.                           |                              |                        |                                           |                                                             |                         |
| 5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.   |                              |                        |                                           |                                                             |                         |
|                                                                                                                                                                 |                              |                        |                                           | *Above specification data is subject to rounding variation. |                         |

# 1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

| SPECIFICATIONS OF Air Conditioner                                                                                                                               |                              |                                                  | (Ceiling-concealed TYPE)                                    |                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------|-------------------------------------------------------------|---------------------------------------|
| MODEL                                                                                                                                                           |                              |                                                  | PEFY-MS40VMAL-A1                                            |                                       |
| Power source                                                                                                                                                    |                              |                                                  | 1-phase 220-230-240 V 50 Hz                                 |                                       |
| Cooling capacity<br>(Nominal)                                                                                                                                   | *1                           | kW                                               | 4.5                                                         |                                       |
|                                                                                                                                                                 | *1                           | BTU/h                                            | 15,400                                                      |                                       |
|                                                                                                                                                                 | *2                           | Power input                                      | kW                                                          | 0.085                                 |
|                                                                                                                                                                 | *2                           | Current input                                    | A                                                           | (220-230-240 V) 0.70-0.67-0.64        |
| Heating capacity<br>(Nominal)                                                                                                                                   | *3                           | kW                                               | 5.0                                                         |                                       |
|                                                                                                                                                                 | *3                           | BTU/h                                            | 17,100                                                      |                                       |
|                                                                                                                                                                 | *2                           | Power input                                      | kW                                                          | 0.085                                 |
|                                                                                                                                                                 | *2                           | Current input                                    | A                                                           | (220-230-240 V) 0.70-0.67-0.64        |
| External finish                                                                                                                                                 |                              |                                                  | Galvanized steel plate                                      |                                       |
| External dimension HxWxD                                                                                                                                        | mm                           |                                                  | 250 x 900 x 732                                             |                                       |
|                                                                                                                                                                 | in.                          |                                                  | 9-7/8 x 35-7/16 x 28-7/8                                    |                                       |
| Net weight                                                                                                                                                      |                              | kg (lbs)                                         | 24.5 (54.0)                                                 |                                       |
| Heat exchanger                                                                                                                                                  |                              |                                                  | Cross fin (Aluminium fin and copper tube)                   |                                       |
| FAN                                                                                                                                                             | Type x Quantity              |                                                  | Sirocco fan x 2                                             |                                       |
|                                                                                                                                                                 | *4                           | External static press.                           | Pa                                                          | 35 - <50> - <70> - <100> - <150>      |
|                                                                                                                                                                 |                              |                                                  | mmH <sub>2</sub> O                                          | 3.6 - <5.1> - <7.1> - <10.2> - <15.3> |
|                                                                                                                                                                 | Motor Type                   |                                                  | DC motor                                                    |                                       |
|                                                                                                                                                                 | Motor output                 |                                                  | kW                                                          | 0.121                                 |
|                                                                                                                                                                 | Driving mechanism            |                                                  | Direct-driven by motor                                      |                                       |
|                                                                                                                                                                 | *2                           | Air flow rate                                    |                                                             | (Low-Mid2-Mid1-High)                  |
|                                                                                                                                                                 |                              | Cooling                                          | m <sup>3</sup> /min                                         | 10.0 - 11.5 - 13.5 - 19.0             |
|                                                                                                                                                                 |                              |                                                  | L/s                                                         | 166 - 191 - 225 - 316                 |
|                                                                                                                                                                 |                              |                                                  | cfm                                                         | 353 - 406 - 476 - 670                 |
|                                                                                                                                                                 |                              | Heating                                          | m <sup>3</sup> /min                                         | 10.0 - 11.5 - 13.5 - 19.0             |
|                                                                                                                                                                 |                              |                                                  | L/s                                                         | 166 - 191 - 225 - 316                 |
|                                                                                                                                                                 |                              |                                                  | cfm                                                         | 353 - 406 - 476 - 670                 |
|                                                                                                                                                                 |                              | Sound pressure level (measured in anechoic room) |                                                             |                                       |
|                                                                                                                                                                 | *5                           | Cooling                                          | dB (A)                                                      | 23.5 - 25.5 - 28.5 - 37.0             |
| Heating                                                                                                                                                         |                              | dB (A)                                           | 23.5 - 25.5 - 28.5 - 37.0                                   |                                       |
| Insulation material                                                                                                                                             |                              |                                                  | EPS, Polystyrene foam, Urethane foam                        |                                       |
| Air filter                                                                                                                                                      |                              |                                                  | PP honeycomb fabric.                                        |                                       |
| Protection device                                                                                                                                               |                              |                                                  | Fuse                                                        |                                       |
| Refrigerant control device                                                                                                                                      |                              |                                                  | LEV                                                         |                                       |
| Connectable outdoor unit                                                                                                                                        |                              |                                                  | R32, R410A CITY MULTI                                       |                                       |
| Refrigerant piping diameter                                                                                                                                     | Liquid                       | mm (in.)                                         | 6.35 (1/4)Braze                                             |                                       |
|                                                                                                                                                                 | Gas                          | mm (in.)                                         | 12.7 (1/2)Braze                                             |                                       |
| Field drain pipe size                                                                                                                                           |                              | mm (in.)                                         | O.D.φ32 (1-1/4)                                             |                                       |
| Drawing                                                                                                                                                         | External                     |                                                  | KB94CACY                                                    |                                       |
|                                                                                                                                                                 | Wiring                       |                                                  | KB94CAQS                                                    |                                       |
|                                                                                                                                                                 | Refrigerant cycle            |                                                  | -                                                           |                                       |
| Standard attachment                                                                                                                                             | Document                     |                                                  | Installation Manual, Instruction Book                       |                                       |
|                                                                                                                                                                 | Accessory                    |                                                  | Washer, Drain hose, Tie band                                |                                       |
| Optional parts                                                                                                                                                  | Filter box                   |                                                  | PAC-KE92TB-E                                                |                                       |
|                                                                                                                                                                 | Plasma Quad Connect          |                                                  | MAC-100FT-E                                                 |                                       |
|                                                                                                                                                                 | PQ attachment (Rear inlet)   |                                                  | PAC-HA31PAR                                                 |                                       |
|                                                                                                                                                                 | PQ attachment (Bottom inlet) |                                                  | PAC-HA31PAU                                                 |                                       |
|                                                                                                                                                                 | PQ Box                       |                                                  | PAC-KE92PTB-E                                               |                                       |
| Remarks                                                                                                                                                         |                              |                                                  |                                                             |                                       |
| * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. |                              |                                                  |                                                             |                                       |
| * Due to continuing improvement, above specifications may be subject to change without notice.                                                                  |                              |                                                  |                                                             |                                       |
| Notes:                                                                                                                                                          |                              |                                                  | Unit converter                                              |                                       |
| 1.Nominal cooling conditions                                                                                                                                    |                              |                                                  | BTU/h =kW x 3,412                                           |                                       |
| Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)                                                                                               |                              |                                                  | cfm =m <sup>3</sup> /min x 35.31                            |                                       |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                                                  | lbs =kg/0.4536                                              |                                       |
| 2.The values are measured at the factory setting of external static pressure.                                                                                   |                              |                                                  |                                                             |                                       |
| The Air flow rate is measured by the conventional method in JIS.                                                                                                |                              |                                                  |                                                             |                                       |
| 3.Nominal heating conditions                                                                                                                                    |                              |                                                  |                                                             |                                       |
| Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)                                                                                                 |                              |                                                  |                                                             |                                       |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                                                  |                                                             |                                       |
| 4.The factory setting of airflow mode and external static pressure mode is shown without < >.                                                                   |                              |                                                  |                                                             |                                       |
| Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.                           |                              |                                                  |                                                             |                                       |
| 5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.   |                              |                                                  |                                                             |                                       |
|                                                                                                                                                                 |                              |                                                  | *Above specification data is subject to rounding variation. |                                       |

# 1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

| SPECIFICATIONS OF Air Conditioner                                                                                                                               |                              |                        | (Ceiling-concealed TYPE)                  |                                                             |                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------|-------------------------------------------|-------------------------------------------------------------|---------------------------|
| MODEL                                                                                                                                                           |                              |                        | PEFY-MS50VMAL-A1                          |                                                             |                           |
| Power source                                                                                                                                                    |                              |                        | 1-phase 220-230-240 V 50 Hz               |                                                             |                           |
| Cooling capacity<br>(Nominal)                                                                                                                                   | *1                           | kW                     | 5.6                                       |                                                             |                           |
|                                                                                                                                                                 | *1                           | BTU/h                  | 19,100                                    |                                                             |                           |
|                                                                                                                                                                 | *2                           | Power input            | 0.129                                     |                                                             |                           |
|                                                                                                                                                                 | *2                           | Current input          | (220-230-240 V) 0.94-0.90-0.86            |                                                             |                           |
| Heating capacity<br>(Nominal)                                                                                                                                   | *3                           | kW                     | 6.3                                       |                                                             |                           |
|                                                                                                                                                                 | *3                           | BTU/h                  | 21,500                                    |                                                             |                           |
|                                                                                                                                                                 | *2                           | Power input            | 0.129                                     |                                                             |                           |
|                                                                                                                                                                 | *2                           | Current input          | (220-230-240 V) 0.94-0.90-0.86            |                                                             |                           |
| External finish                                                                                                                                                 |                              |                        | Galvanized steel plate                    |                                                             |                           |
| External dimension HxWxD                                                                                                                                        |                              | mm                     | 250 x 1100 x 732                          |                                                             |                           |
|                                                                                                                                                                 |                              | in.                    | 9-7/8 x 43-5/16 x 28-7/8                  |                                                             |                           |
| Net weight                                                                                                                                                      |                              | kg (lbs)               | 29.0 (64.0)                               |                                                             |                           |
| Heat exchanger                                                                                                                                                  |                              |                        | Cross fin (Aluminium fin and copper tube) |                                                             |                           |
| FAN                                                                                                                                                             | Type x Quantity              |                        | Sirocco fan x 2                           |                                                             |                           |
|                                                                                                                                                                 | *4                           | External static press. | Pa                                        | 35 - <50> - <70> - <100> - <150>                            |                           |
|                                                                                                                                                                 |                              |                        | mmH <sub>2</sub> O                        | 3.6 - <5.1> - <7.1> - <10.2> - <15.3>                       |                           |
|                                                                                                                                                                 | Motor Type                   |                        | DC motor                                  |                                                             |                           |
|                                                                                                                                                                 | Motor output                 |                        | kW                                        | 0.121                                                       |                           |
|                                                                                                                                                                 | Driving mechanism            |                        | Direct-driven by motor                    |                                                             |                           |
|                                                                                                                                                                 | *2                           | Air flow rate          | (Low-Mid2-Mid1-High)                      |                                                             |                           |
|                                                                                                                                                                 |                              |                        | Cooling                                   | m <sup>3</sup> /min                                         | 12.0 - 14.5 - 16.5 - 25.6 |
|                                                                                                                                                                 |                              |                        |                                           | L/s                                                         | 208 - 241 - 275 - 426     |
|                                                                                                                                                                 |                              |                        |                                           | cfm                                                         | 441 - 511 - 582 - 903     |
|                                                                                                                                                                 |                              |                        | Heating                                   | m <sup>3</sup> /min                                         | 12.0 - 14.5 - 16.5 - 25.6 |
|                                                                                                                                                                 |                              |                        |                                           | L/s                                                         | 208 - 241 - 275 - 426     |
|                                                                                                                                                                 |                              |                        |                                           | cfm                                                         | 441 - 511 - 582 - 903     |
| Sound pressure level (measured in anechoic room)                                                                                                                |                              |                        | (Low-Mid2-Mid1-High)                      |                                                             |                           |
| *5                                                                                                                                                              | Cooling                      | dB (A)                 | 22.0 - 24.0 - 26.5 - 37.0                 |                                                             |                           |
|                                                                                                                                                                 | Heating                      | dB (A)                 | 22.0 - 24.0 - 26.5 - 37.0                 |                                                             |                           |
| Insulation material                                                                                                                                             |                              |                        | EPS, Polystyrene foam, Urethane foam      |                                                             |                           |
| Air filter                                                                                                                                                      |                              |                        | PP honeycomb fabric.                      |                                                             |                           |
| Protection device                                                                                                                                               |                              |                        | Fuse                                      |                                                             |                           |
| Refrigerant control device                                                                                                                                      |                              |                        | LEV                                       |                                                             |                           |
| Connectable outdoor unit                                                                                                                                        |                              |                        | R32, R410A CITY MULTI                     |                                                             |                           |
| Refrigerant piping diameter                                                                                                                                     | Liquid                       | mm (in.)               | 6.35 (1/4)Brazed                          |                                                             |                           |
|                                                                                                                                                                 | Gas                          | mm (in.)               | 12.7 (1/2)Brazed                          |                                                             |                           |
| Field drain pipe size                                                                                                                                           |                              | mm (in.)               | O.D.φ32 (1-1/4)                           |                                                             |                           |
| Drawing                                                                                                                                                         | External                     |                        | KB94CACY                                  |                                                             |                           |
|                                                                                                                                                                 | Wiring                       |                        | KB94CAQS                                  |                                                             |                           |
|                                                                                                                                                                 | Refrigerant cycle            |                        | -                                         |                                                             |                           |
| Standard attachment                                                                                                                                             | Document                     |                        | Installation Manual, Instruction Book     |                                                             |                           |
|                                                                                                                                                                 | Accessory                    |                        | Washer, Drain hose, Tie band              |                                                             |                           |
| Optional parts                                                                                                                                                  | Filter box                   |                        | PAC-KE93TB-E                              |                                                             |                           |
|                                                                                                                                                                 | Plasma Quad Connect          |                        | MAC-100FT-E                               |                                                             |                           |
|                                                                                                                                                                 | PQ attachment (Rear inlet)   |                        | PAC-HA31PAR                               |                                                             |                           |
|                                                                                                                                                                 | PQ attachment (Bottom inlet) |                        | PAC-HA31PAU                               |                                                             |                           |
|                                                                                                                                                                 | PQ Box                       |                        | PAC-KE93PTB-E                             |                                                             |                           |
| Remarks                                                                                                                                                         |                              |                        |                                           |                                                             |                           |
| * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. |                              |                        |                                           |                                                             |                           |
| * Due to continuing improvement, above specifications may be subject to change without notice.                                                                  |                              |                        |                                           |                                                             |                           |
| Notes:                                                                                                                                                          |                              |                        |                                           | Unit converter                                              |                           |
| 1.Nominal cooling conditions                                                                                                                                    |                              |                        |                                           | BTU/h =kW x 3,412                                           |                           |
| Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)                                                                                               |                              |                        |                                           | cfm =m <sup>3</sup> /min x 35.31                            |                           |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                        |                                           | lbs =kg/0.4536                                              |                           |
| 2.The values are measured at the factory setting of external static pressure.                                                                                   |                              |                        |                                           |                                                             |                           |
| The Air flow rate is measured by the conventional method in JIS.                                                                                                |                              |                        |                                           |                                                             |                           |
| 3.Nominal heating conditions                                                                                                                                    |                              |                        |                                           |                                                             |                           |
| Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)                                                                                                 |                              |                        |                                           |                                                             |                           |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                        |                                           |                                                             |                           |
| 4.The factory setting of airflow mode and external static pressure mode is shown without < >.                                                                   |                              |                        |                                           |                                                             |                           |
| Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.                           |                              |                        |                                           |                                                             |                           |
| 5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.   |                              |                        |                                           |                                                             |                           |
|                                                                                                                                                                 |                              |                        |                                           | *Above specification data is subject to rounding variation. |                           |

# 1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

| SPECIFICATIONS OF Air Conditioner                                                                                                                               |                              |                                                  | (Ceiling-concealed TYPE)                  |                                                             |                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------|-------------------------------------------|-------------------------------------------------------------|----------------------|
| MODEL                                                                                                                                                           |                              |                                                  | PEFY-MS63VMAL-A1                          |                                                             |                      |
| Power source                                                                                                                                                    |                              |                                                  | 1-phase 220-230-240 V 50 Hz               |                                                             |                      |
| Cooling capacity<br>(Nominal)                                                                                                                                   | *1                           | kW                                               | 7.1                                       |                                                             |                      |
|                                                                                                                                                                 | *1                           | BTU/h                                            | 24,200                                    |                                                             |                      |
|                                                                                                                                                                 | *2                           | Power input                                      | kW                                        | 0.137                                                       |                      |
|                                                                                                                                                                 | *2                           | Current input                                    | A                                         | (220-230-240 V) 0.99-0.95-0.91                              |                      |
| Heating capacity<br>(Nominal)                                                                                                                                   | *3                           | kW                                               | 8.0                                       |                                                             |                      |
|                                                                                                                                                                 | *3                           | BTU/h                                            | 27,300                                    |                                                             |                      |
|                                                                                                                                                                 | *2                           | Power input                                      | kW                                        | 0.231                                                       |                      |
|                                                                                                                                                                 | *2                           | Current input                                    | A                                         | (220-230-240 V) 1.55-1.48-1.42                              |                      |
| External finish                                                                                                                                                 |                              |                                                  | Galvanized steel plate                    |                                                             |                      |
| External dimension HxWxD                                                                                                                                        |                              | mm                                               | 250 x 1100 x 732                          |                                                             |                      |
|                                                                                                                                                                 |                              | in.                                              | 9-7/8 x 43-5/16 x 28-7/8                  |                                                             |                      |
| Net weight                                                                                                                                                      |                              | kg (lbs)                                         | 29.0 (64.0)                               |                                                             |                      |
| Heat exchanger                                                                                                                                                  |                              |                                                  | Cross fin (Aluminium fin and copper tube) |                                                             |                      |
| FAN                                                                                                                                                             | Type x Quantity              |                                                  | Sirocco fan x 2                           |                                                             |                      |
|                                                                                                                                                                 | *4                           | External static press.                           | Pa                                        | 35 - <50> - <70> - <100> - <150>                            |                      |
|                                                                                                                                                                 |                              |                                                  | mmH <sub>2</sub> O                        | 3.6 - <5.1> - <7.1> - <10.2> - <15.3>                       |                      |
|                                                                                                                                                                 | Motor Type                   |                                                  | DC motor                                  |                                                             |                      |
|                                                                                                                                                                 | Motor output                 |                                                  | kW                                        | 0.121                                                       |                      |
|                                                                                                                                                                 | Driving mechanism            |                                                  | Direct-driven by motor                    |                                                             |                      |
|                                                                                                                                                                 | *2                           | Air flow rate                                    |                                           | (Low-Mid2-Mid1-High)                                        |                      |
|                                                                                                                                                                 |                              | Cooling                                          | m <sup>3</sup> /min                       | 13.5 - 16.0 - 19.2 - 26.2                                   |                      |
|                                                                                                                                                                 |                              |                                                  | L/s                                       | 225 - 266 - 320 - 436                                       |                      |
|                                                                                                                                                                 |                              |                                                  | cfm                                       | 476 - 564 - 677 - 925                                       |                      |
|                                                                                                                                                                 |                              | Heating                                          | m <sup>3</sup> /min                       | 13.5 - 16.0 - 19.2 - 31.0                                   |                      |
|                                                                                                                                                                 |                              |                                                  | L/s                                       | 225 - 266 - 320 - 516                                       |                      |
|                                                                                                                                                                 |                              |                                                  | cfm                                       | 476 - 564 - 677 - 1094                                      |                      |
|                                                                                                                                                                 |                              | Sound pressure level (measured in anechoic room) |                                           |                                                             | (Low-Mid2-Mid1-High) |
|                                                                                                                                                                 | *5                           | Cooling                                          | dB (A)                                    | 23.0 - 26.0 - 30.0 - 37.5                                   |                      |
|                                                                                                                                                                 |                              | Heating                                          | dB (A)                                    | 23.0 - 26.0 - 30.0 - 41.5                                   |                      |
|                                                                                                                                                                 | Insulation material          |                                                  |                                           | EPS, Polystyrene foam, Urethane foam                        |                      |
|                                                                                                                                                                 | Air filter                   |                                                  |                                           | PP honeycomb fabric.                                        |                      |
| Protection device                                                                                                                                               |                              |                                                  | Fuse                                      |                                                             |                      |
| Refrigerant control device                                                                                                                                      |                              |                                                  | LEV                                       |                                                             |                      |
| Connectable outdoor unit                                                                                                                                        |                              |                                                  | R32, R410A CITY MULTI                     |                                                             |                      |
| Refrigerant piping diameter                                                                                                                                     | Liquid                       | *6                                               | mm (in.)                                  | 6.35 (1/4)Brazed                                            |                      |
|                                                                                                                                                                 | Gas                          |                                                  | mm (in.)                                  | 9.52 (3/8)Brazed                                            |                      |
| Field drain pipe size                                                                                                                                           |                              |                                                  | mm (in.)                                  | 15.88 (5/8)Brazed                                           |                      |
| Drawing                                                                                                                                                         | External                     |                                                  | O.D.φ32 (1-1/4)                           |                                                             |                      |
|                                                                                                                                                                 | Wiring                       |                                                  | KB94CACY                                  |                                                             |                      |
|                                                                                                                                                                 | Refrigerant cycle            |                                                  | KB94CAQS                                  |                                                             |                      |
| Standard attachment                                                                                                                                             | Document                     |                                                  | -                                         |                                                             |                      |
|                                                                                                                                                                 | Accessory                    |                                                  | Installation Manual, Instruction Book     |                                                             |                      |
| Optional parts                                                                                                                                                  | Filter box                   |                                                  | Washer, Drain hose, Tie band              |                                                             |                      |
|                                                                                                                                                                 | Plasma Quad Connect          |                                                  | PAC-KE93TB-E                              |                                                             |                      |
|                                                                                                                                                                 | PQ attachment (Rear inlet)   |                                                  | MAC-100FT-E                               |                                                             |                      |
|                                                                                                                                                                 | PQ attachment (Bottom inlet) |                                                  | PAC-HA31PAR                               |                                                             |                      |
|                                                                                                                                                                 | PQ Box                       |                                                  | PAC-HA31PAU                               |                                                             |                      |
| Remarks                                                                                                                                                         |                              |                                                  | PAC-KE93PTB-E                             |                                                             |                      |
| * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. |                              |                                                  |                                           |                                                             |                      |
| * Due to continuing improvement, above specifications may be subject to change without notice.                                                                  |                              |                                                  |                                           |                                                             |                      |
| Notes:                                                                                                                                                          |                              |                                                  |                                           | Unit converter                                              |                      |
| 1.Nominal cooling conditions                                                                                                                                    |                              |                                                  |                                           | BTU/h =kW x 3,412                                           |                      |
| Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)                                                                                               |                              |                                                  |                                           | cfm =m <sup>3</sup> /min x 35.31                            |                      |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                                                  |                                           | lbs =kg/0.4536                                              |                      |
| 2.The values are measured at the factory setting of external static pressure.                                                                                   |                              |                                                  |                                           |                                                             |                      |
| The Air flow rate is measured by the conventional method in JIS.                                                                                                |                              |                                                  |                                           |                                                             |                      |
| 3.Nominal heating conditions                                                                                                                                    |                              |                                                  |                                           |                                                             |                      |
| Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)                                                                                                 |                              |                                                  |                                           |                                                             |                      |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                                                  |                                           |                                                             |                      |
| 4.The factory setting of airflow mode and external static pressure mode is shown without < >.                                                                   |                              |                                                  |                                           |                                                             |                      |
| Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.                           |                              |                                                  |                                           |                                                             |                      |
| 5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.   |                              |                                                  |                                           |                                                             |                      |
| 6.It is possible to reduce the pipe size to Φ6.35 using a ""Reducer"" included in the accessory bag.                                                            |                              |                                                  |                                           |                                                             |                      |
| The pipe size required depends on the connected outdoor unit, so check the Outdoor Unit Installation Manual to confirm whether the Reducer can be used.         |                              |                                                  |                                           | *Above specification data is subject to rounding variation. |                      |

# 1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

| SPECIFICATIONS OF Air Conditioner                                                                                                                               |  |                              |                        | (Ceiling-concealed TYPE)                  |                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------|------------------------|-------------------------------------------|-------------------------------------------------------------|
| MODEL                                                                                                                                                           |  |                              |                        | PEFY-MS71VMAL-A1                          |                                                             |
| Power source                                                                                                                                                    |  |                              |                        | 1-phase 220-230-240 V 50 Hz               |                                                             |
| Cooling capacity                                                                                                                                                |  | *1                           | kW                     | 8.0                                       |                                                             |
| (Nominal)                                                                                                                                                       |  | *1                           | BTU/h                  | 27,300                                    |                                                             |
|                                                                                                                                                                 |  | *2                           | Power input            | 0.163                                     |                                                             |
|                                                                                                                                                                 |  | *2                           | Current input          | (220-230-240 V)                           | 1.16-1.11-1.06                                              |
| Heating capacity                                                                                                                                                |  | *3                           | kW                     | 9.0                                       |                                                             |
| (Nominal)                                                                                                                                                       |  | *3                           | BTU/h                  | 30,700                                    |                                                             |
|                                                                                                                                                                 |  | *2                           | Power input            | 0.216                                     |                                                             |
|                                                                                                                                                                 |  | *2                           | Current input          | (220-230-240 V)                           | 1.47-1.41-1.35                                              |
| External finish                                                                                                                                                 |  |                              |                        | Galvanized steel plate                    |                                                             |
| External dimension HxWxD                                                                                                                                        |  |                              | mm                     | 250 x 1400 x 732                          |                                                             |
|                                                                                                                                                                 |  |                              | in.                    | 9-7/8 x 55-1/8 x 28-7/8                   |                                                             |
| Net weight                                                                                                                                                      |  |                              | kg (lbs)               | 36 (80)                                   |                                                             |
| Heat exchanger                                                                                                                                                  |  |                              |                        | Cross fin (Aluminium fin and copper tube) |                                                             |
| FAN                                                                                                                                                             |  | Type x Quantity              |                        | Sirocco fan x 3                           |                                                             |
|                                                                                                                                                                 |  | *4                           | External static press. | Pa                                        | 40 - <50> - <70> - <100> - <150>                            |
|                                                                                                                                                                 |  |                              |                        | mmH <sub>2</sub> O                        | 4.1 - <5.1> - <7.1> - <10.2> - <15.3>                       |
|                                                                                                                                                                 |  | Motor Type                   |                        | DC motor                                  |                                                             |
|                                                                                                                                                                 |  | Motor output                 |                        | kW                                        | 0.300                                                       |
|                                                                                                                                                                 |  | Driving mechanism            |                        | Direct-driven by motor                    |                                                             |
|                                                                                                                                                                 |  | *2                           | Air flow rate          | (Low-Mid2-Mid1-High)                      |                                                             |
|                                                                                                                                                                 |  | Cooling                      | m <sup>3</sup> /min    | 14.5 - 18.0 - 21.0 - 33.1                 |                                                             |
|                                                                                                                                                                 |  |                              | L/s                    | 241 - 300 - 350 - 518                     |                                                             |
|                                                                                                                                                                 |  |                              | cfm                    | 511 - 635 - 741 - 1098                    |                                                             |
|                                                                                                                                                                 |  | Heating                      | m <sup>3</sup> /min    | 14.5 - 18.0 - 21.0 - 36.6                 |                                                             |
|                                                                                                                                                                 |  |                              | L/s                    | 241 - 300 - 350 - 610                     |                                                             |
|                                                                                                                                                                 |  |                              | cfm                    | 511 - 635 - 741 - 1292                    |                                                             |
| Sound pressure level (measured in anechoic room)                                                                                                                |  |                              |                        | (Low-Mid2-Mid1-High)                      |                                                             |
|                                                                                                                                                                 |  | *5                           | Cooling                | dB <A>                                    | 22.0 - 25.0 - 27.5 - 38.5                                   |
|                                                                                                                                                                 |  |                              | Heating                | dB <A>                                    | 22.0 - 25.0 - 27.5 - 40.5                                   |
| Insulation material                                                                                                                                             |  |                              |                        | EPS, Polystyrene foam, Urethane foam      |                                                             |
| Air filter                                                                                                                                                      |  |                              |                        | PP honeycomb fabric.                      |                                                             |
| Protection device                                                                                                                                               |  |                              |                        | Fuse                                      |                                                             |
| Refrigerant control device                                                                                                                                      |  |                              |                        | LEV                                       |                                                             |
| Connectable outdoor unit                                                                                                                                        |  |                              |                        | R32, R410A CITY MULTI                     |                                                             |
| Refrigerant piping diameter                                                                                                                                     |  | Liquid                       | *6                     | mm (in.)                                  | 6.35 (1/4)Brazed                                            |
|                                                                                                                                                                 |  |                              |                        |                                           | 9.52 (3/8)Brazed                                            |
|                                                                                                                                                                 |  | Gas                          |                        | mm (in.)                                  | 15.88 (5/8)Brazed                                           |
| Field drain pipe size                                                                                                                                           |  |                              |                        | mm (in.)                                  | O.D.φ32 (1-1/4)                                             |
| Drawing                                                                                                                                                         |  | External                     |                        | KB94CACY                                  |                                                             |
|                                                                                                                                                                 |  | Wiring                       |                        | KB94CAQS                                  |                                                             |
|                                                                                                                                                                 |  | Refrigerant cycle            |                        | -                                         |                                                             |
| Standard attachment                                                                                                                                             |  | Document                     |                        | Installation Manual, Instruction Book     |                                                             |
|                                                                                                                                                                 |  | Accessory                    |                        | Washer, Drain hose, Tie band              |                                                             |
| Optional parts                                                                                                                                                  |  | Filter box                   |                        | PAC-KE94TB-E                              |                                                             |
|                                                                                                                                                                 |  | Plasma Quad Connect          |                        | MAC-100FT-E                               |                                                             |
|                                                                                                                                                                 |  | PQ attachment (Rear inlet)   |                        | PAC-HA31PAR                               |                                                             |
|                                                                                                                                                                 |  | PQ attachment (Bottom inlet) |                        | PAC-HA31PAU                               |                                                             |
|                                                                                                                                                                 |  | PQ Box                       |                        | PAC-KE94PTB-E                             |                                                             |
| Remarks                                                                                                                                                         |  |                              |                        |                                           |                                                             |
| * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. |  |                              |                        |                                           |                                                             |
| * Due to continuing improvement, above specifications may be subject to change without notice.                                                                  |  |                              |                        |                                           |                                                             |
| Notes:                                                                                                                                                          |  |                              |                        |                                           | Unit converter                                              |
| 1.Nominal cooling conditions                                                                                                                                    |  |                              |                        |                                           | BTU/h =kW x 3,412                                           |
| Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)                                                                                               |  |                              |                        |                                           | cfm =m <sup>3</sup> /min x 35.31                            |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |  |                              |                        |                                           | lbs =kg/0.4536                                              |
| 2.The values are measured at the factory setting of external static pressure.                                                                                   |  |                              |                        |                                           |                                                             |
| The Air flow rate is measured by the conventional method in JIS.                                                                                                |  |                              |                        |                                           |                                                             |
| 3.Nominal heating conditions                                                                                                                                    |  |                              |                        |                                           |                                                             |
| Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)                                                                                                 |  |                              |                        |                                           |                                                             |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |  |                              |                        |                                           |                                                             |
| 4.The factory setting of airflow mode and external static pressure mode is shown without < >.                                                                   |  |                              |                        |                                           |                                                             |
| Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.                           |  |                              |                        |                                           |                                                             |
| 5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.   |  |                              |                        |                                           |                                                             |
| 6.It is possible to reduce the pipe size to Φ6.35 using a ""Reducer"" included in the accessory bag.                                                            |  |                              |                        |                                           |                                                             |
| The pipe size required depends on the connected outdoor unit, so check the Outdoor Unit Installation Manual to confirm whether the Reducer can be used.         |  |                              |                        |                                           | *Above specification data is subject to rounding variation. |

# 1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

| SPECIFICATIONS OF Air Conditioner                                                                                                                                                                                                                               |                              |                                                  | (Ceiling-concealed TYPE)                      |                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------|
| MODEL                                                                                                                                                                                                                                                           |                              |                                                  | PEFY-MS80VMAL-A1                              |                                                             |
| Power source                                                                                                                                                                                                                                                    |                              |                                                  | 1-phase 220-230-240 V 50 Hz                   |                                                             |
| Cooling capacity<br>(Nominal)                                                                                                                                                                                                                                   | *1                           | kW                                               | 9.0                                           |                                                             |
|                                                                                                                                                                                                                                                                 | *1                           | BTU/h                                            | 30,700                                        |                                                             |
|                                                                                                                                                                                                                                                                 | *2                           | Power input                                      | kW                                            | 0.163                                                       |
|                                                                                                                                                                                                                                                                 | *2                           | Current input                                    | A                                             | (220-230-240 V) 1.16-1.11-1.06                              |
| Heating capacity<br>(Nominal)                                                                                                                                                                                                                                   | *3                           | kW                                               | 10.0                                          |                                                             |
|                                                                                                                                                                                                                                                                 | *3                           | BTU/h                                            | 34,100                                        |                                                             |
|                                                                                                                                                                                                                                                                 | *2                           | Power input                                      | kW                                            | 0.216                                                       |
|                                                                                                                                                                                                                                                                 | *2                           | Current input                                    | A                                             | (220-230-240 V) 1.47-1.41-1.35                              |
| External finish                                                                                                                                                                                                                                                 |                              |                                                  | Galvanized steel plate                        |                                                             |
| External dimension HxWxD                                                                                                                                                                                                                                        |                              | mm                                               | 250 x 1400 x 732                              |                                                             |
|                                                                                                                                                                                                                                                                 |                              | in.                                              | 9-7/8 x 55-1/8 x 28-7/8                       |                                                             |
| Net weight                                                                                                                                                                                                                                                      |                              | kg (lbs)                                         | 36 (80)                                       |                                                             |
| Heat exchanger                                                                                                                                                                                                                                                  |                              |                                                  | Cross fin (Aluminium fin and copper tube)     |                                                             |
| FAN                                                                                                                                                                                                                                                             | Type x Quantity              |                                                  | Sirocco fan x 3                               |                                                             |
|                                                                                                                                                                                                                                                                 | *4                           | External static press.                           | Pa                                            | 40 - <50> - <70> - <100> - <150>                            |
|                                                                                                                                                                                                                                                                 |                              |                                                  | mmH <sub>2</sub> O                            | 4.1 - <5.1> - <7.1> - <10.2> - <15.3>                       |
|                                                                                                                                                                                                                                                                 | Motor Type                   |                                                  | DC motor                                      |                                                             |
|                                                                                                                                                                                                                                                                 | Motor output                 |                                                  | kW 0.300                                      |                                                             |
|                                                                                                                                                                                                                                                                 | Driving mechanism            |                                                  | Direct-driven by motor                        |                                                             |
|                                                                                                                                                                                                                                                                 | *2                           | Air flow rate                                    | (Low-Mid2-Mid1-High)                          |                                                             |
|                                                                                                                                                                                                                                                                 |                              |                                                  | Cooling                                       | m <sup>3</sup> /min 14.5 - 18.0 - 21.0 - 33.1               |
|                                                                                                                                                                                                                                                                 |                              |                                                  | L/s 241 - 300 - 350 - 518                     |                                                             |
|                                                                                                                                                                                                                                                                 |                              |                                                  | cfm 511 - 635 - 741 - 1098                    |                                                             |
|                                                                                                                                                                                                                                                                 |                              | Heating                                          | m <sup>3</sup> /min 14.5 - 18.0 - 21.0 - 36.6 |                                                             |
|                                                                                                                                                                                                                                                                 |                              |                                                  | L/s 241 - 300 - 350 - 610                     |                                                             |
|                                                                                                                                                                                                                                                                 |                              |                                                  | cfm 511 - 635 - 741 - 1292                    |                                                             |
|                                                                                                                                                                                                                                                                 |                              | Sound pressure level (measured in anechoic room) |                                               | (Low-Mid2-Mid1-High)                                        |
|                                                                                                                                                                                                                                                                 | *5                           | Cooling                                          | dB (A)                                        | 22.0 - 25.0 - 27.5 - 38.5                                   |
| Heating                                                                                                                                                                                                                                                         |                              | dB (A)                                           | 22.0 - 25.0 - 27.5 - 40.5                     |                                                             |
| Insulation material                                                                                                                                                                                                                                             |                              |                                                  | EPS, Polystyrene foam, Urethane foam          |                                                             |
| Air filter                                                                                                                                                                                                                                                      |                              |                                                  | PP honeycomb fabric.                          |                                                             |
| Protection device                                                                                                                                                                                                                                               |                              |                                                  | Fuse                                          |                                                             |
| Refrigerant control device                                                                                                                                                                                                                                      |                              |                                                  | LEV                                           |                                                             |
| Connectable outdoor unit                                                                                                                                                                                                                                        |                              |                                                  | R32, R410A CITY MULTI                         |                                                             |
| Refrigerant piping diameter                                                                                                                                                                                                                                     | Liquid *6                    | mm (in.)                                         | 6.35 (1/4)Brazed                              |                                                             |
|                                                                                                                                                                                                                                                                 | Gas                          | mm (in.)                                         | 9.52 (3/8)Brazed<br>15.88 (5/8)Brazed         |                                                             |
| Field drain pipe size                                                                                                                                                                                                                                           |                              | mm (in.)                                         | O.D.φ32 (1-1/4)                               |                                                             |
| Drawing                                                                                                                                                                                                                                                         | External                     |                                                  | KB94CACY                                      |                                                             |
|                                                                                                                                                                                                                                                                 | Wiring                       |                                                  | KB94CAQS                                      |                                                             |
|                                                                                                                                                                                                                                                                 | Refrigerant cycle            |                                                  | -                                             |                                                             |
| Standard attachment                                                                                                                                                                                                                                             | Document                     |                                                  | Installation Manual, Instruction Book         |                                                             |
|                                                                                                                                                                                                                                                                 | Accessory                    |                                                  | Washer, Drain hose, Tie band                  |                                                             |
| Optional parts                                                                                                                                                                                                                                                  | Filter box                   |                                                  | PAC-KE94TB-E                                  |                                                             |
|                                                                                                                                                                                                                                                                 | Plasma Quad Connect          |                                                  | MAC-100FT-E                                   |                                                             |
|                                                                                                                                                                                                                                                                 | PQ attachment (Rear inlet)   |                                                  | PAC-HA31PAR                                   |                                                             |
|                                                                                                                                                                                                                                                                 | PQ attachment (Bottom inlet) |                                                  | PAC-HA31PAU                                   |                                                             |
|                                                                                                                                                                                                                                                                 | PQ Box                       |                                                  | PAC-KE94PTB-E                                 |                                                             |
| Remarks                                                                                                                                                                                                                                                         |                              |                                                  |                                               |                                                             |
| * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.                                                                                                 |                              |                                                  |                                               |                                                             |
| * Due to continuing improvement, above specifications may be subject to change without notice.                                                                                                                                                                  |                              |                                                  |                                               |                                                             |
| Notes:                                                                                                                                                                                                                                                          |                              |                                                  |                                               | Unit converter                                              |
| 1.Nominal cooling conditions<br>Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)<br>Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                    |                              |                                                  |                                               | BTU/h =kW x 3,412                                           |
| 2.The values are measured at the factory setting of external static pressure.<br>The Air flow rate is measured by the conventional method in JIS.                                                                                                               |                              |                                                  |                                               | cfm =m <sup>3</sup> /min x 35.31                            |
| 3.Nominal heating conditions<br>Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)<br>Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                      |                              |                                                  |                                               | lbs =kg/0.4536                                              |
| 4.The factory setting of airflow mode and external static pressure mode is shown without < >.<br>Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.                          |                              |                                                  |                                               |                                                             |
| 5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.                                                                                                   |                              |                                                  |                                               |                                                             |
| 6.It is possible to reduce the pipe size to Φ6.35 using a ""Reducer"" included in the accessory bag.<br>The pipe size required depends on the connected outdoor unit, so check the Outdoor Unit Installation Manual to confirm whether the Reducer can be used. |                              |                                                  |                                               | *Above specification data is subject to rounding variation. |

# 1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

| SPECIFICATIONS OF Air Conditioner                                                                                                                               |                              |               | (Ceiling-concealed TYPE)                                    |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------|-------------------------------------------------------------|--|
| MODEL                                                                                                                                                           |                              |               | PEFY-MS100VMAL-A1                                           |  |
| Power source                                                                                                                                                    |                              |               | 1-phase 220-230-240 V 50 Hz                                 |  |
| Cooling capacity<br>(Nominal)                                                                                                                                   | *1                           | kW            | 11.2                                                        |  |
|                                                                                                                                                                 | *1                           | BTU/h         | 38,200                                                      |  |
|                                                                                                                                                                 | *2                           | Power input   | kW                                                          |  |
|                                                                                                                                                                 | *2                           | Current input | A                                                           |  |
| Heating capacity<br>(Nominal)                                                                                                                                   | *3                           | kW            | (220-230-240 V) 1.44-1.38-1.32                              |  |
|                                                                                                                                                                 | *3                           | BTU/h         | 12.5                                                        |  |
|                                                                                                                                                                 | *2                           | Power input   | 42,700                                                      |  |
|                                                                                                                                                                 | *2                           | Current input | kW                                                          |  |
| External finish                                                                                                                                                 |                              |               | (220-230-240 V) 1.44-1.38-1.32                              |  |
| External dimension HxWxD                                                                                                                                        |                              | mm            | Galvanized steel plate                                      |  |
|                                                                                                                                                                 |                              | in.           | 250 x 1400 x 732                                            |  |
| Net weight                                                                                                                                                      |                              | kg (lbs)      | 9-7/8 x 55-1/8 x 28-7/8                                     |  |
| Heat exchanger                                                                                                                                                  |                              |               | 36 (80)                                                     |  |
| FAN                                                                                                                                                             |                              |               | Cross fin (Aluminium fin and copper tube)                   |  |
|                                                                                                                                                                 |                              |               | Sirocco fan x 3                                             |  |
| *4                                                                                                                                                              | External static press.       |               | Pa                                                          |  |
|                                                                                                                                                                 |                              |               | mmH <sub>2</sub> O                                          |  |
|                                                                                                                                                                 | Motor Type                   |               | 40 - <50> - <70> - <100> - <150>                            |  |
|                                                                                                                                                                 | Motor output                 |               | kW                                                          |  |
|                                                                                                                                                                 | Driving mechanism            |               | DC motor                                                    |  |
|                                                                                                                                                                 | *2 Air flow rate             |               | Direct-driven by motor                                      |  |
|                                                                                                                                                                 |                              |               | (Low-Mid2-Mid1-High)                                        |  |
|                                                                                                                                                                 | Cooling                      |               | m <sup>3</sup> /min                                         |  |
|                                                                                                                                                                 |                              |               | L/s                                                         |  |
|                                                                                                                                                                 |                              |               | cfm                                                         |  |
| *5                                                                                                                                                              | Heating                      |               | 812 - 988 - 1129 - 1306                                     |  |
|                                                                                                                                                                 |                              |               | m <sup>3</sup> /min                                         |  |
|                                                                                                                                                                 |                              |               | L/s                                                         |  |
|                                                                                                                                                                 |                              |               | cfm                                                         |  |
|                                                                                                                                                                 |                              |               | 23.0 - 28.0 - 32.0 - 37.0                                   |  |
|                                                                                                                                                                 |                              |               | 383 - 466 - 533 - 616                                       |  |
| Sound pressure level (measured in anechoic room)                                                                                                                |                              |               | (Low-Mid2-Mid1-High)                                        |  |
|                                                                                                                                                                 |                              |               | 29.5 - 34.0 - 37.5 - 40.0                                   |  |
|                                                                                                                                                                 |                              |               | 29.5 - 34.0 - 37.5 - 40.0                                   |  |
| Insulation material                                                                                                                                             |                              |               | EPS, Polystyrene foam, Urethane foam                        |  |
| Air filter                                                                                                                                                      |                              |               | PP honeycomb fabric.                                        |  |
| Protection device                                                                                                                                               |                              |               | Fuse                                                        |  |
| Refrigerant control device                                                                                                                                      |                              |               | LEV                                                         |  |
| Connectable outdoor unit                                                                                                                                        |                              |               | R32, R410A CITY MULTI                                       |  |
| Refrigerant piping                                                                                                                                              | Liquid                       | mm (in.)      | 9.52 (3/8)Brazed                                            |  |
| diameter                                                                                                                                                        | Gas                          | mm (in.)      | 15.88 (5/8)Brazed                                           |  |
| Field drain pipe size                                                                                                                                           |                              | mm (in.)      | O.D.φ32 (1-1/4)                                             |  |
| Drawing                                                                                                                                                         | External                     |               | KB94CACY                                                    |  |
|                                                                                                                                                                 | Wiring                       |               | KB94CAQS                                                    |  |
|                                                                                                                                                                 | Refrigerant cycle            |               | -                                                           |  |
| Standard attachment                                                                                                                                             | Document                     |               | Installation Manual, Instruction Book                       |  |
|                                                                                                                                                                 | Accessory                    |               | Washer, Drain hose, Tie band                                |  |
| Optional parts                                                                                                                                                  | Filter box                   |               | PAC-KE94TB-E                                                |  |
|                                                                                                                                                                 | Plasma Quad Connect          |               | MAC-100FT-E                                                 |  |
|                                                                                                                                                                 | PQ attachment (Rear inlet)   |               | PAC-HA31PAR                                                 |  |
|                                                                                                                                                                 | PQ attachment (Bottom inlet) |               | PAC-HA31PAU                                                 |  |
|                                                                                                                                                                 | PQ Box                       |               | PAC-KE94PTB-E                                               |  |
| Remarks                                                                                                                                                         |                              |               |                                                             |  |
| * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. |                              |               |                                                             |  |
| * Due to continuing improvement, above specifications may be subject to change without notice.                                                                  |                              |               |                                                             |  |
| Notes:                                                                                                                                                          |                              |               | Unit converter                                              |  |
| 1.Nominal cooling conditions                                                                                                                                    |                              |               | BTU/h =kW x 3,412                                           |  |
| Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)                                                                                               |                              |               | cfm =m <sup>3</sup> /min x 35.31                            |  |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |               | lbs =kg/0.4536                                              |  |
| 2.The values are measured at the factory setting of external static pressure.                                                                                   |                              |               |                                                             |  |
| The Air flow rate is measured by the conventional method in JIS.                                                                                                |                              |               |                                                             |  |
| 3.Nominal heating conditions                                                                                                                                    |                              |               |                                                             |  |
| Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)                                                                                                 |                              |               |                                                             |  |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |               |                                                             |  |
| 4.The factory setting of airflow mode and external static pressure mode is shown without < >.                                                                   |                              |               |                                                             |  |
| Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.                           |                              |               |                                                             |  |
| 5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.   |                              |               |                                                             |  |
|                                                                                                                                                                 |                              |               | *Above specification data is subject to rounding variation. |  |

# 1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

| SPECIFICATIONS OF Air Conditioner                                                                                                                               |                              |                                                  | (Ceiling-concealed TYPE)                                    |                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------|-------------------------------------------------------------|---------------------------------------|
| MODEL                                                                                                                                                           |                              |                                                  | PEFY-MS125VMAL-A1                                           |                                       |
| Power source                                                                                                                                                    |                              |                                                  | 1-phase 220-230-240 V 50 Hz                                 |                                       |
| Cooling capacity<br>(Nominal)                                                                                                                                   | *1                           | kW                                               | 14.0                                                        |                                       |
|                                                                                                                                                                 | *1                           | BTU/h                                            | 47,800                                                      |                                       |
|                                                                                                                                                                 | *2                           | Power input                                      | kW                                                          | 0.216                                 |
|                                                                                                                                                                 | *2                           | Current input                                    | A                                                           | (220-230-240 V) 1.40-1.33-1.28        |
| Heating capacity<br>(Nominal)                                                                                                                                   | *3                           | kW                                               | 16.0                                                        |                                       |
|                                                                                                                                                                 | *3                           | BTU/h                                            | 54,600                                                      |                                       |
|                                                                                                                                                                 | *2                           | Power input                                      | kW                                                          | 0.216                                 |
|                                                                                                                                                                 | *2                           | Current input                                    | A                                                           | (220-230-240 V) 1.40-1.33-1.28        |
| External finish                                                                                                                                                 |                              |                                                  | Galvanized steel plate                                      |                                       |
| External dimension HxWxD                                                                                                                                        |                              | mm                                               | 250 x 1400 x 732                                            |                                       |
|                                                                                                                                                                 |                              | in.                                              | 9-7/8 x 55-1/8 x 28-7/8                                     |                                       |
| Net weight                                                                                                                                                      |                              | kg (lbs)                                         | 37 (82)                                                     |                                       |
| Heat exchanger                                                                                                                                                  |                              |                                                  | Cross fin (Aluminium fin and copper tube)                   |                                       |
| FAN                                                                                                                                                             | Type x Quantity              |                                                  | Sirocco fan x 3                                             |                                       |
|                                                                                                                                                                 | *4                           | External static press.                           | Pa                                                          | <40> - 50 - <70> - <100> - <150>      |
|                                                                                                                                                                 |                              |                                                  | mmH <sub>2</sub> O                                          | <4.1> - 5.1 - <7.1> - <10.2> - <15.3> |
|                                                                                                                                                                 | Motor Type                   |                                                  | DC motor                                                    |                                       |
|                                                                                                                                                                 | Motor output                 |                                                  | kW                                                          | 0.300                                 |
|                                                                                                                                                                 | Driving mechanism            |                                                  | Direct-driven by motor                                      |                                       |
|                                                                                                                                                                 | *2                           | Air flow rate                                    |                                                             | (Low-Mid2-Mid1-High)                  |
|                                                                                                                                                                 |                              | Cooling                                          | m <sup>3</sup> /min                                         | 25.5 - 31.0 - 34.0 - 37.0             |
|                                                                                                                                                                 |                              |                                                  | L/s                                                         | 425 - 516 - 566 - 616                 |
|                                                                                                                                                                 |                              |                                                  | cfm                                                         | 900 - 1094 - 1200 - 1306              |
|                                                                                                                                                                 |                              | Heating                                          | m <sup>3</sup> /min                                         | 25.5 - 31.0 - 34.0 - 37.0             |
|                                                                                                                                                                 |                              |                                                  | L/s                                                         | 425 - 516 - 566 - 616                 |
|                                                                                                                                                                 |                              |                                                  | cfm                                                         | 900 - 1094 - 1200 - 1306              |
|                                                                                                                                                                 |                              | Sound pressure level (measured in anechoic room) |                                                             |                                       |
|                                                                                                                                                                 | *5                           | Cooling                                          | dB (A)                                                      | 31.5 - 36.5 - 38.5 - 40.5             |
| Heating                                                                                                                                                         |                              | dB (A)                                           | 31.5 - 36.5 - 38.5 - 40.5                                   |                                       |
| Insulation material                                                                                                                                             |                              |                                                  | EPS, Polystyrene foam, Urethane foam                        |                                       |
| Air filter                                                                                                                                                      |                              |                                                  | PP honeycomb fabric.                                        |                                       |
| Protection device                                                                                                                                               |                              |                                                  | Fuse                                                        |                                       |
| Refrigerant control device                                                                                                                                      |                              |                                                  | LEV                                                         |                                       |
| Connectable outdoor unit                                                                                                                                        |                              |                                                  | R32, R410A CITY MULTI                                       |                                       |
| Refrigerant piping diameter                                                                                                                                     | Liquid                       | mm (in.)                                         | 9.52 (3/8)Braze                                             |                                       |
|                                                                                                                                                                 | Gas                          | mm (in.)                                         | 15.88 (5/8)Braze                                            |                                       |
| Field drain pipe size                                                                                                                                           |                              | mm (in.)                                         | O.D.φ32 (1-1/4)                                             |                                       |
| Drawing                                                                                                                                                         | External                     |                                                  | KB94CACY                                                    |                                       |
|                                                                                                                                                                 | Wiring                       |                                                  | KB94CAQS                                                    |                                       |
|                                                                                                                                                                 | Refrigerant cycle            |                                                  | -                                                           |                                       |
| Standard attachment                                                                                                                                             | Document                     |                                                  | Installation Manual, Instruction Book                       |                                       |
|                                                                                                                                                                 | Accessory                    |                                                  | Washer, Drain hose, Tie band                                |                                       |
| Optional parts                                                                                                                                                  | Filter box                   |                                                  | PAC-KE94TB-E                                                |                                       |
|                                                                                                                                                                 | Plasma Quad Connect          |                                                  | MAC-100FT-E                                                 |                                       |
|                                                                                                                                                                 | PQ attachment (Rear inlet)   |                                                  | PAC-HA31PAR                                                 |                                       |
|                                                                                                                                                                 | PQ attachment (Bottom inlet) |                                                  | PAC-HA31PAU                                                 |                                       |
|                                                                                                                                                                 | PQ Box                       |                                                  | PAC-KE94PTB-E                                               |                                       |
| Remarks                                                                                                                                                         |                              |                                                  |                                                             |                                       |
| * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. |                              |                                                  |                                                             |                                       |
| * Due to continuing improvement, above specifications may be subject to change without notice.                                                                  |                              |                                                  |                                                             |                                       |
| Notes:                                                                                                                                                          |                              |                                                  | Unit converter                                              |                                       |
| 1.Nominal cooling conditions                                                                                                                                    |                              |                                                  | BTU/h =kW x 3,412                                           |                                       |
| Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)                                                                                               |                              |                                                  | cfm =m <sup>3</sup> /min x 35.31                            |                                       |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                                                  | lbs =kg/0.4536                                              |                                       |
| 2.The values are measured at the factory setting of external static pressure.                                                                                   |                              |                                                  |                                                             |                                       |
| The Air flow rate is measured by the conventional method in JIS.                                                                                                |                              |                                                  |                                                             |                                       |
| 3.Nominal heating conditions                                                                                                                                    |                              |                                                  |                                                             |                                       |
| Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)                                                                                                 |                              |                                                  |                                                             |                                       |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                                                  |                                                             |                                       |
| 4.The factory setting of airflow mode and external static pressure mode is shown without < >.                                                                   |                              |                                                  |                                                             |                                       |
| Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.                           |                              |                                                  |                                                             |                                       |
| 5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.   |                              |                                                  |                                                             |                                       |
|                                                                                                                                                                 |                              |                                                  | *Above specification data is subject to rounding variation. |                                       |

# 1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-MS-VMA(L)-A1

| SPECIFICATIONS OF Air Conditioner                                                                                                                               |                              |                        | (Ceiling-concealed TYPE)                                    |                                       |                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------|-------------------------------------------------------------|---------------------------------------|---------------------------|
| MODEL                                                                                                                                                           |                              |                        | PEFY-MS140VMAL-A1                                           |                                       |                           |
| Power source                                                                                                                                                    |                              |                        | 1-phase 220-230-240 V 50 Hz                                 |                                       |                           |
| Cooling capacity<br>(Nominal)                                                                                                                                   | *1                           | kW                     | 16.0                                                        |                                       |                           |
|                                                                                                                                                                 | *1                           | BTU/h                  | 54,600                                                      |                                       |                           |
|                                                                                                                                                                 | *2                           | Power input            | kW                                                          | 0.280                                 |                           |
|                                                                                                                                                                 | *2                           | Current input          | A                                                           | (220-230-240 V) 1.84-1.76-1.69        |                           |
| Heating capacity<br>(Nominal)                                                                                                                                   | *3                           | kW                     | 18.0                                                        |                                       |                           |
|                                                                                                                                                                 | *3                           | BTU/h                  | 61,400                                                      |                                       |                           |
|                                                                                                                                                                 | *2                           | Power input            | kW                                                          | 0.280                                 |                           |
|                                                                                                                                                                 | *2                           | Current input          | A                                                           | (220-230-240 V) 1.84-1.76-1.69        |                           |
| External finish                                                                                                                                                 |                              |                        | Galvanized steel plate                                      |                                       |                           |
| External dimension HxWxD                                                                                                                                        |                              | mm                     | 250 x 1600 x 732                                            |                                       |                           |
|                                                                                                                                                                 |                              | in.                    | 9-7/8 x 63 x 28-7/8                                         |                                       |                           |
| Net weight                                                                                                                                                      |                              | kg (lbs)               | 41 (91)                                                     |                                       |                           |
| Heat exchanger                                                                                                                                                  |                              |                        | Cross fin (Aluminium fin and copper tube)                   |                                       |                           |
| FAN                                                                                                                                                             | Type x Quantity              |                        | Sirocco fan x 3                                             |                                       |                           |
|                                                                                                                                                                 | *4                           | External static press. | Pa                                                          | <40> - 50 - <70> - <100> - <150>      |                           |
|                                                                                                                                                                 |                              |                        | mmH <sub>2</sub> O                                          | <4.1> - 5.1 - <7.1> - <10.2> - <15.3> |                           |
|                                                                                                                                                                 | Motor Type                   |                        | DC motor                                                    |                                       |                           |
|                                                                                                                                                                 | Motor output                 |                        | kW                                                          | 0.300                                 |                           |
|                                                                                                                                                                 | Driving mechanism            |                        | Direct-driven by motor                                      |                                       |                           |
|                                                                                                                                                                 | *2                           | Air flow rate          | (Low-Mid2-Mid1-High)                                        |                                       |                           |
|                                                                                                                                                                 |                              |                        | Cooling                                                     | m <sup>3</sup> /min                   | 29.5 - 35.5 - 40.0 - 44.0 |
|                                                                                                                                                                 |                              |                        |                                                             | L/s                                   | 491 - 591 - 666 - 733     |
|                                                                                                                                                                 |                              |                        |                                                             | cfm                                   | 1041 - 1253 - 1412 - 1553 |
|                                                                                                                                                                 |                              |                        | Heating                                                     | m <sup>3</sup> /min                   | 29.5 - 35.5 - 40.0 - 44.0 |
|                                                                                                                                                                 |                              |                        |                                                             | L/s                                   | 491 - 591 - 666 - 733     |
| cfm                                                                                                                                                             |                              |                        |                                                             | 1041 - 1253 - 1412 - 1553             |                           |
| Sound pressure level (measured in anechoic room)                                                                                                                |                              |                        | (Low-Mid2-Mid1-High)                                        |                                       |                           |
| *5                                                                                                                                                              | Cooling                      | dB (A)                 | 34.0 - 38.0 - 40.5 - 43.0                                   |                                       |                           |
|                                                                                                                                                                 | Heating                      | dB (A)                 | 34.0 - 38.0 - 40.5 - 43.0                                   |                                       |                           |
| Insulation material                                                                                                                                             |                              |                        | EPS, Polystyrene foam, Urethane foam                        |                                       |                           |
| Air filter                                                                                                                                                      |                              |                        | PP honeycomb fabric.                                        |                                       |                           |
| Protection device                                                                                                                                               |                              |                        | Fuse                                                        |                                       |                           |
| Refrigerant control device                                                                                                                                      |                              |                        | LEV                                                         |                                       |                           |
| Connectable outdoor unit                                                                                                                                        |                              |                        | R32, R410A CITY MULTI                                       |                                       |                           |
| Refrigerant piping diameter                                                                                                                                     | Liquid                       | mm (in.)               | 9.52 (3/8)Brazed                                            |                                       |                           |
|                                                                                                                                                                 | Gas                          | mm (in.)               | 15.88 (5/8)Brazed                                           |                                       |                           |
| Field drain pipe size                                                                                                                                           |                              | mm (in.)               | O.D.φ32 (1-1/4)                                             |                                       |                           |
| Drawing                                                                                                                                                         | External                     |                        | KB94CACY                                                    |                                       |                           |
|                                                                                                                                                                 | Wiring                       |                        | KB94CAQS                                                    |                                       |                           |
|                                                                                                                                                                 | Refrigerant cycle            |                        | -                                                           |                                       |                           |
| Standard attachment                                                                                                                                             | Document                     |                        | Installation Manual, Instruction Book                       |                                       |                           |
|                                                                                                                                                                 | Accessory                    |                        | Washer, Drain hose, Tie band                                |                                       |                           |
| Optional parts                                                                                                                                                  | Filter box                   |                        | PAC-KE95TB-E                                                |                                       |                           |
|                                                                                                                                                                 | Plasma Quad Connect          |                        | MAC-100FT-E                                                 |                                       |                           |
|                                                                                                                                                                 | PQ attachment (Rear inlet)   |                        | PAC-HA31PAR                                                 |                                       |                           |
|                                                                                                                                                                 | PQ attachment (Bottom inlet) |                        | PAC-HA31PAU                                                 |                                       |                           |
|                                                                                                                                                                 | PQ Box                       |                        | PAC-KE95PTB-E                                               |                                       |                           |
| Remarks                                                                                                                                                         |                              |                        |                                                             |                                       |                           |
| * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. |                              |                        |                                                             |                                       |                           |
| * Due to continuing improvement, above specifications may be subject to change without notice.                                                                  |                              |                        |                                                             |                                       |                           |
| Notes:                                                                                                                                                          |                              |                        | Unit converter                                              |                                       |                           |
| 1.Nominal cooling conditions                                                                                                                                    |                              |                        | BTU/h =kW x 3,412                                           |                                       |                           |
| Indoor:27° CDB/19° CWB(81° FDB/66° FWB), Outdoor:35° CDB(95° FDB)                                                                                               |                              |                        | cfm =m <sup>3</sup> /min x 35.31                            |                                       |                           |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                        | lbs =kg/0.4536                                              |                                       |                           |
| 2.The values are measured at the factory setting of external static pressure.                                                                                   |                              |                        |                                                             |                                       |                           |
| The Air flow rate is measured by the conventional method in JIS.                                                                                                |                              |                        |                                                             |                                       |                           |
| 3.Nominal heating conditions                                                                                                                                    |                              |                        |                                                             |                                       |                           |
| Indoor:20° CDB(68° FDB), Outdoor:7° CDB/6° CWB(45° FDB/43° FWB)                                                                                                 |                              |                        |                                                             |                                       |                           |
| Pipe length:7.5m(24-9/16ft.), Level difference:0m(0ft.)                                                                                                         |                              |                        |                                                             |                                       |                           |
| 4.The factory setting of airflow mode and external static pressure mode is shown without < >.                                                                   |                              |                        |                                                             |                                       |                           |
| Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.                           |                              |                        |                                                             |                                       |                           |
| 5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit,under the conditions shown in *2.   |                              |                        |                                                             |                                       |                           |
|                                                                                                                                                                 |                              |                        | *Above specification data is subject to rounding variation. |                                       |                           |