

S (Heat Pump) series Y (Heat Pump) series Cooling or Heating

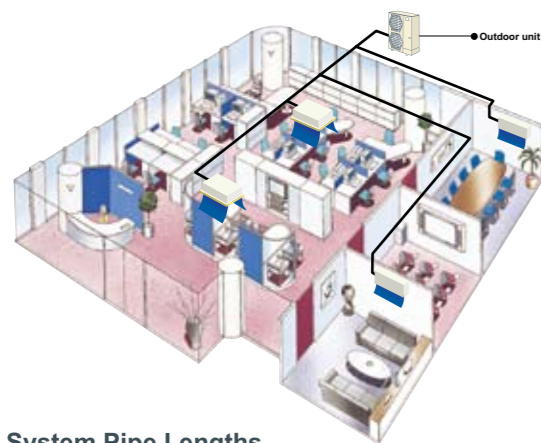
S series — [PUMY-P VHMB(-BS)
PUMY-P YHMB(-BS)] Y series — [PUHY-P YJM-A(-BS)
PUHY-P YSJM-A(-BS)] PUHY-EP YJM-A(-BS)
PUHY-EP YSJM-A(1)(-BS)

The two-pipe zoned system designed for Heat Pump Operation

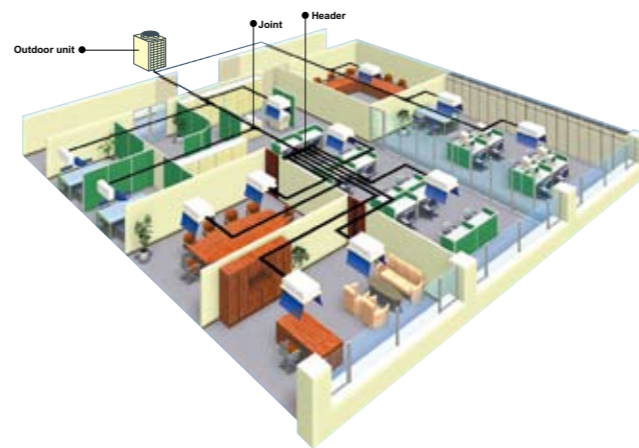
The CITY MULTI S series (for small applications) and Y series (for large applications) make use of a two-pipe refrigerant system, which allows for system changeover from cooling to heating, ensuring that a constant indoor climate is maintained in all zones. The compact outdoor unit utilizes R410A refrigerant and an INVERTER-driven compressor to use energy effectively.

With a wide line-up of indoor units in connection with a flexible piping system, the CITY MULTI series can be configured for all applications. Up to 12 (S series) or 50 (Y series) indoor units can be connected with up to 130% connected capacity to maximize engineer's design options. This feature allows easy air conditioning in each area with convenient individual controllers.

Small Offices (S series)



Large Offices (Y series)

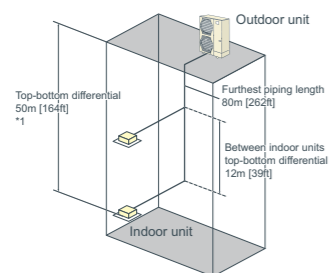


System Pipe Lengths

[4-6HP (S series)]

| Refrigerant Piping Lengths | Maximum meters [Feet] |
|--|-----------------------|
| Total length..... | 120 [393] |
| Maximum allowable length..... | 80 [262] |
| Farthest indoor from first branch..... | 30 [98] |

| Vertical differentials between units | Maximum meters [Feet] |
|--------------------------------------|-----------------------|
| Indoor/outdoor (outdoor higher)..... | 50 [164] |
| Indoor/outdoor (outdoor lower)..... | 20 [65] |
| Indoor/indoor..... | 12 [39] |

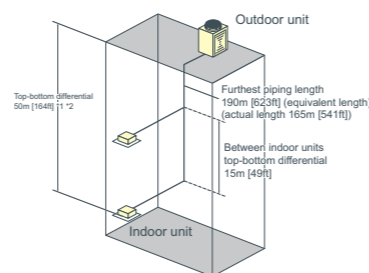


*1 When the outdoor unit is installed below the indoor unit, top-bottom differential is 20m [65ft].

[8-50HP (Y series)]
[8-36HP (High COP Y series)]

| Refrigerant Piping Lengths | Maximum meters [Feet] |
|--|-----------------------------------|
| Total length..... | 1,000 [3,280] |
| Maximum allowable length..... | 165 (190equivalent) [541(623)] |
| Farthest indoor from first branch..... | 40 [131] |

| Vertical differentials between units | Maximum meters [Feet] |
|--------------------------------------|-----------------------|
| Indoor/outdoor (outdoor higher)..... | 50 [164]*1 |
| Indoor/outdoor (outdoor lower)..... | 40 [131]*1 |
| Indoor/indoor..... | 15 [49] |



*1 When the outdoor unit is installed below the indoor unit, top-bottom differential is 40m [131 ft].
*2 Depending on the model and installation conditions, top-bottom differential 90m [295ft] (o/u above) and 60m [196ft] (o/u below) is available. For more detailed information, please contact your nearest sales office or distributor.

R2 (Heat Recovery) series Simultaneous Cooling and Heating

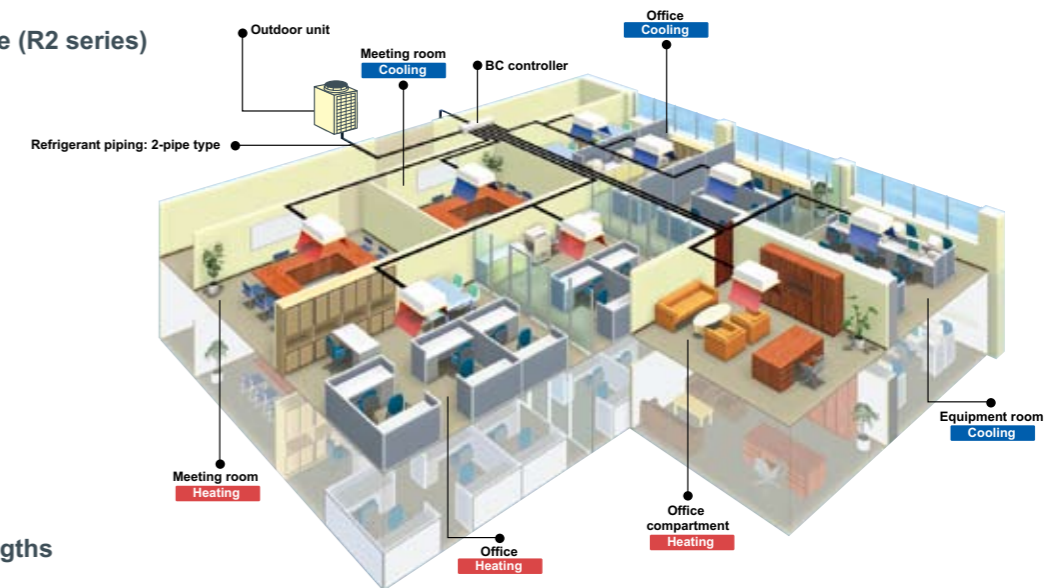
R2 series — [PURY-P YJM-A(-BS)
PURY-P YSJM-A(1)(-BS)] PURY-EP YJM-A(-BS)
PURY-EP YSJM-A(1)(-BS)

The world's first two-pipe system that Simultaneously Cools and Heats

CITY MULTI R2 series offers the ultimate in freedom and flexibility. Cool one zone while heating another. Our exclusive BC controller makes two-pipe simultaneous cooling and heating possible. The BC controller is the technological heart of the CITY MULTI R2 series. It houses a liquid and gas separator, allowing the outdoor unit to deliver a mixture of hot gas for heating and liquid for cooling, all through the same pipe.

This innovation results in virtually no energy wasted by being expelled outdoors. Depending on capacity, up to 50 indoor units can be connected with up to 150% connected capacity

Installation image (R2 series)



System Pipe Lengths

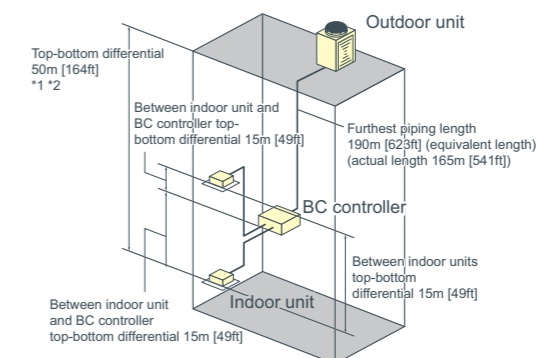
[8-36HP (R2 series)]
[8-28HP (High COP R2 series)]

| Refrigerant Piping Lengths | Maximum meters [Feet] |
|-------------------------------|--|
| Total length..... | 550-800 [1,804-2,624] (P600,P650 models only; Refer to the Data book for other models.) |
| Maximum allowable length..... | 165 (190equivalent) [541(623)] |

Maximum length between outdoor and single/main BC controller..... 110 [360]
*Maximum total length is dependent upon the distance between the outdoor unit and the single/main BC Controller.
Maximum length between single/main BC controller and indoor..... 40-60 [131-196]

| Vertical differentials between units | Maximum meters [Feet] |
|---|-----------------------|
| Indoor/outdoor (outdoor higher)..... | 50 [164]*2 |
| Indoor/outdoor (outdoor lower)..... | 40 [131]*2 |
| Indoor/BC controller (single/main)..... | 15 [49] |

*Maximum length between single/main BC controller and indoor is dependent upon the vertical differential between the single/main BC controller and the indoor unit.
Indoor/indoor..... 15 [49]
Main BC Controller/Sub BC Controller... 15 [49]



*1 When the outdoor unit is installed below the indoor unit, top-bottom differential is 40m [131ft].
*2 Depending on the model and installation conditions, top-bottom differential 90m [295ft] (o/u above) and 60m [196ft] (o/u below) is available. For more detailed information, please contact your nearest sales office or distributor.

Common Features in Y (Heat Pump) series & R2 (Heat Recovery) series

New Lineup Y/R2 series(YJM)



In addition to outdoor unit "S" and "L" module, a new "XL" module is introduced. The three modular form can be combined to create systems up to 50HP in Y series and up to 36HP in R2 series.

<Y Series-Standard>

| HP | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | 50 |
|--------------------|--------------|------|------|----|----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-------|
| Capacity | Cooling 22.4 | 28 | 33.5 | 40 | 45 | 50 | 56 | 63 | 69 | 73 | 80 | 85 | 90 | 96 | 101 | 108 | 113 | 118 | 124 | 130 | 136 | 140 |
| | Heating 25 | 31.5 | 37.5 | 45 | 50 | 56 | 63 | 69 | 76.5 | 81.5 | 88 | 95 | 100 | 108 | 113 | 119.5 | 127 | 132 | 140 | 145 | 150 | 156.5 |
| Module (Pattern 1) | S module | ● | ● | ● | | | ●+● | ●+● | ● | ● | ●+● | ●+● | ● | ● | | ●+● | ●+● | ● | ● | ●+● | ●+● | ● |
| | L module | | | ● | ● | | | | ● | ● | ●+● | ●+● | ● | ● | | ● | ● | ●+● | ●+● | ● | ● | ● |
| | XL module | | | | | ● | | | | | ● | ● | ● | ● | ●+● | ● | ● | ● | ● | ● | ● | ● |
| Module (Pattern 2) | S module | | | | | ●+● | ●+● | ●+● | ● | | | | | | | | | | | | | |
| | L module | | | | | | | | ● | | ●+● | | | | | | | | | | | |
| | XL module | | | | | | | | | | ● | ● | | | | | | | | | | |

<R2 Series-Standard>

| HP | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 |
|--------------------|--------------|------|------|----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|
| Capacity | Cooling 22.4 | 28 | 33.5 | 40 | 45 | 50 | 56 | 63 | 69 | 73 | 80 | 85 | 90 | 96 | 101 |
| | Heating 25 | 31.5 | 37.5 | 45 | 50 | 56 | 63 | 69 | 76.5 | 81.5 | 88 | 95 | 100 | 108 | 113 |
| Module (Pattern 1) | S module | ● | ● | ● | ● | ● | ●+● | ●+● | ●+● | ● | ● | ●+● | ●+● | ● | ● |
| | L module | | | ● | ● | | | | ● | ● | ●+● | ●+● | ● | ● | |
| | XL module | | | | | ● | | | | | ● | ● | ● | ● | ●+● |
| Module (Pattern 2) | S module | | | | ●+● | ●+● | ●+● | ● | | | | | | | |
| | L module | | | | | | | | ● | | ●+● | | ● | | |
| | XL module | | | | | | | | | | ● | ● | | | |

Improved performance

Improved heating capacity at low ambient temperature ensures 70% capacity at -15°C [5°F].

Cooling operation range is extended up to 46°C [115°F] from 43°C [109°F] with conventional model.

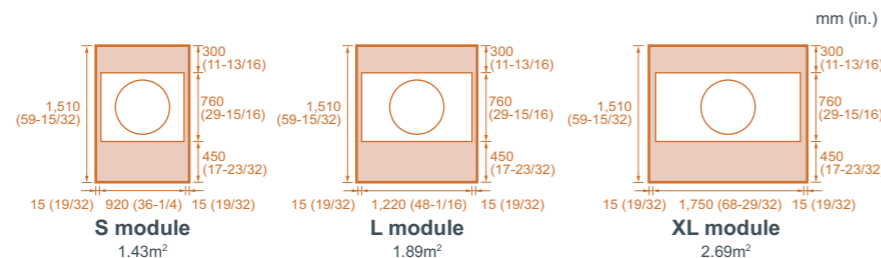
Compact Design Industry leading weight saving

The manageability of the outdoor unit has been improved due to a drastic reduction in its weight, leading to easy transportation, installation, and reduction in withstand load.

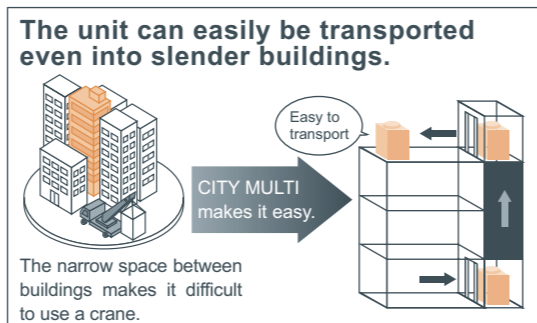
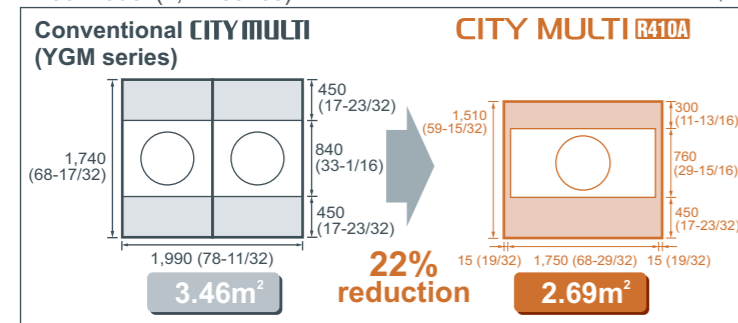


Effective Use of Space

The new models have a smaller foot print and service space requirement than previous models.



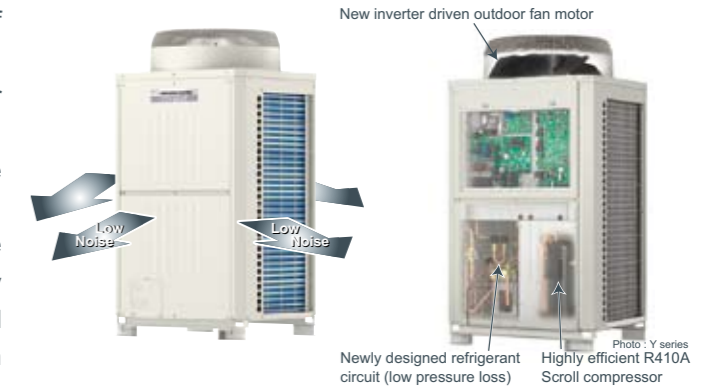
P450 model (Y,R2 series)



Low Noise Levels New Fan Design

CITY MULTI VRF systems led the introduction of larger single fan motors some ten years ago, achieving substantially lower noise levels over multiple designs.

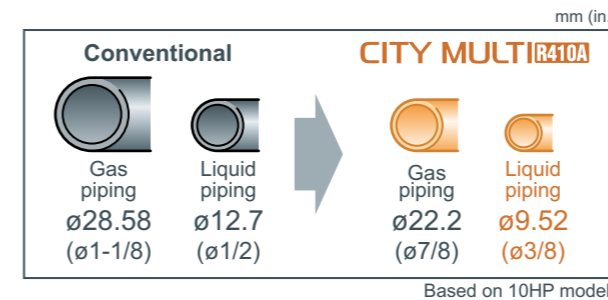
Continuing the development in the areas of blade shape and weight, Mitsubishi Electric have managed to achieve even higher performance and lower noise levels. To reduce noise levels further and comply with inner city residential noise regulations, all outdoor units include low noise mode. This function works by lowering the fan speed and compressor frequency proportionally with reduction in demand.



The compressor compartment is sealed by metal panels to attain low noise levels in all directions.

R410A Pipe Sizing

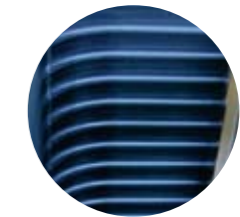
As R410A has a higher specific heat capacity than R22, the pipework is smaller. This means the pipe itself is cheaper, easier to install and less riser space is required within the building.



Blue Fin Treatment

The anti-corrosion Blue Fin treatment of the heat exchanger is especially effective in urban environments where the traffic pollutions can damage the aluminum fins reducing the capacity and life expectancy of the unit. All CITY MULTI R410A outdoor units have been treated with Blue Fin.

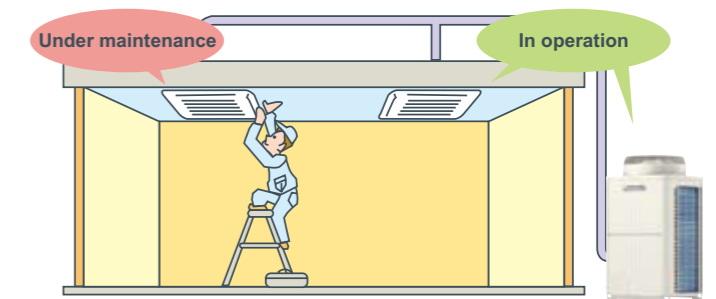
*Standard:Anti-corrosion Blue Fin treatment & copper tube. BS type (optional):salt-resistant cross fin & copper tube.



Easy Maintenance

Even when one of the indoor units in the system is under maintenance, the other indoor unit can still operate.

* Not applicable to all situations. * Be sure to turn off the power to the indoor unit when repairing or servicing the unit.



System Check

Ensuring simple and easy maintenance, system tests are available to check wiring, sensors and the refrigerant amount.

60Pa High Static Pressure as standard

Both Y and R2 series correspond to high static pressure of 60Pa, ideal and flexible for any type of application.