1. Product Specifications

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andard piping) Outlet mm (in) $65A(21/2B)$ housing type joint ameter of water piper Inlet mm (in) $150A(6B)$ housing type joint ternal finish mm (in) $150A(6B)$ housing type joint ternal dimension H × W × D mm $2350 \times 3400 \times 1080$ ternal dimension H × W × D mm $2350 \times 3400 \times 1080$ tweight Standard piping kg (lbs) $1280(2822)$ Inside header piping kg (lbs) $12057(2881)$ sign pressure R32 MPa 4.15 water MPa 1.0 100 at exchanger Water MPa 1.0 mpressor Type Inverter scroll hermetic compressor Maker Salt-resistant cross fin & aluminium tube Starting method Inverter Inverter Quantity 4 Motor output KW Not or output kW 11.5×4 U/s Lubricant MEL46EH MEL46EH 1/s n Air flow rate $\frac{m^3/min}{trig}$ 270×4
ameter of water pipe side header piping)Inletmm (in)150A (6B) housing type jointternal finish ternal finishmm (in)150A (6B) housing type jointternal finish ternal dimension H × W × Dmm2350 × 3400 × 1080t weightStandard pipingkg (lbs)1280 (2822)Inside header pipingkg (lbs)1307 (2881)sign pressureB32MPa4,15waterMPa1,0at exchangerWater side1,0Air side
side header piping) Outlet mm (in) 150A (6B) housing type joint ternal finish Polyester powder coating steel plate Polyester powder coating steel plate ternal dimension H × W × D mm 2350 × 3400 × 1080 t weight Standard piping kg (lbs) 1280 (2822) Inside header piping kg (lbs) 1307 (2881) sign pressure R32 MPa 4,15 Water MPa 1,0 100 iat exchanger Water side Sallresistant cross fin & aluminium tube Air side Sallresistant cross fin & aluminium tube 10 mpressor Maker Inverter scrol hermetic compressor Maker Maker Inverter Quantity 4 11.5 × 4 Lubricant ME 4700 × 4 icfm 9534 × 4 270 × 4 Type_Quantity KW 0,928 × 4
ternal finish Polyester powder coating steel plate ternal dimension H × W × D mm 2350 × 3400 × 1080 tweight Standard piping kg (lbs) 1280 (2822) Inside header piping kg (lbs) 1307 (2881) isign pressure R32 MPa 4.15 water MPa 4.15 at exchanger Water of the metric compressor 1.0 Air side Type Saltresistant cross fin & aluminium tube mpressor Maker Inverter scroll hermetic compressor Maker MITSUBISH LECTRIC CORPORATION Starting method Inverter Quantity KW 11.5 × 4 Motor output kW 11.5 × 4 Lubricant MEL46EH n Air flow rate m ³ /min Inverter 450 × 4 Type_Quantity KW 9534 × 4 Type_Quantity KW 0,92 × 4
$\begin{tabular}{ c c c c c } \hline true ight & Standard piping & kq (lbs) & 1280 (2822) & 1280 (2822) & 1280 (2822) & 1280 (2822) & 1280 (2823) & 1307 (2881) $
t weight $\begin{tabular}{ c c c c } \hline Standard piping kg (lbs) (2822) (2831) $
Inside header piping kg (lbs) 1307 (2881) sign pressure R32 MPa 4.15 Water MPa 1.0 iat exchanger Water side Stainless steel plate and copper brazing Air side Sall-resistant cross fin & aluminium tube impressor Type Inverter scroll hermetic compressor Maker MITSUBISHI ELECTRIC CORPORATION Stating method Inverter Quantity 4 Motor output kW Lubricant MEL46EH I/s 4500 × 4 icfm 9534 × 4 Type_Quantity KW Stating method Inverter Motor output KW Air flow rate I/s icfm 9534 × 4 Type_Quantity Fropeller fan × 4 Stating method Inverter Motor output KW 0.92 × 4
R32 MPa 4,15 Water MPa 1,0 at exchanger Water side 1,0 Air side Stainless sted plate and copper brazing Air side Salt-resistant cross fin & aluminium tube mpressor Type Inverter scroll hermetic compressor Maker MITSUBISH ELECTRIC CORPORATION Starting method Inverter Quantity 4 Motor output kW Lubricant MEL46EH Air flow rate M ³ /min Lype_Quantity Grad Type_Quantity Starting method Type_Quantity KW Starting method 09534 × 4 Type_Quantity KW
Water MPa 1.0 at exchanger Water side Stainless steel plate and copper brazing Air side Salt-resistant cross fin & aluminium tube mpressor Type Inverter scroll hermetic compressor Maker MITSUBISHI ELECTRIC CORPORATION Starting method Inverter Quantity 4 Motor output kW Lubricant MEL46EH Air flow rate m ³ /min 270 × 4 1/s Type_Quantity 9534 × 4 Type_Quantity Inverter Motor output KW Min 270 × 4 Motor output KW
Water side Stainless steel plate and copper brazing Air side Sall-resistant cross fin & aluminium tube mpressor Type Inverter scrol hermetic compressor Maker MitSUBISHI ELECTRIC CORPORATION Starting method Inverter Quantity 4 Motor output kW Lubricant MEL46EH n Air flow rate Inverter L/s 4500 × 4 cfm 9534 × 4 Type_Quantity KW 1nverter Mitsup and the scheme a
Air side Salt-resistant cross fin & aluminium tube mpressor Type Inverter scroll hermetic compressor Maker MitsuBisH ELECTRIC CORPORATION Starting method Inverter Quantity 4 Motor output kW Lubricant MEL46EH n Air flow rate Type. Quantity M^3/min Type. Quantity Vs Starting method 0534 × 4 Type. Quantity KW Starting method Inverter Motor output kW
$\begin{tabular}{ c c c c } \hline Type & Inverter scroll hermetic compressor \\ \hline Maker & MITSUBISHI ELECTRIC CORPORATION \\ \hline Maker & Inverter \\ \hline Starting method & Inverter \\ \hline Quantity & Inverter \\ \hline Quantity & W & 11.5 \times 4 \\ \hline Lubricant & W & 11.5 \times 4 \\ \hline Lubricant & MEL46EH \\ \hline Ive & 270 \times 4 \\ \hline Ive & 100 \times 4 \\ \hline Ive$
Maker MITSUBISHI ELECTRIC CORPORATION Starting method Inverter Quantity 4 Motor output kW Lubricant MEL46EH Air flow rate m ³ /min L/s 4500 × 4 ofm 9534 × 4 Type, Quantity Inverter Motor output kW
Starting method Inverter Quantity 4 Motor output kW Lubricant MEL46EH n Air flow rate IVs 4500 × 4 IVs 4534 × 4 Type. Quantity cfm 9534 × 4 Starting method Inverter Motor output kW 0.92 × 4
Quantity 4 Motor output kW 11.5 × 4 Lubricant MELd6EH n Air flow rate m ³ /min 270 × 4 L/s 4500 × 4 4500 × 4 cfm 9534 × 4 9534 × 4 Type. Quantity Propeller fan × 4 Inverter Motor output kW 0.92 × 4
Motor output kW 11.5 × 4 Lubricant MEL46EH n Air flow rate 270 × 4 L/s 4500 × 4 cfm 9534 × 4 Type, Quantity Propeller fan × 4 Starting method Inverter Motor output kW 0,92 × 4
Lubricant MEL46EH n Air flow rate m^3/min 270×4 L/s 4500 \times 4 4500 \times 4 cfm 9534 × 4 9534 × 4 Type, Quantity Trype, Quantity Propeller fan × 4 Starting method Inverter Inverter Motor output KW 0,92 × 4
n Air flow rate
L/s 4500 × 4 cfm 9534 × 4 Type. Quantity Proceller fan × 4 Starting method Inverter Motor output kW 0.92 × 4
cfm 9534 × 4 Type, Quantity Propeller fan × 4 Starting method Inverter Motor output kW 0,92 × 4
Type, Quantity Propeller fan × 4 Starting method Inverter Motor output kW 0.92 × 4
Starting method Inverter Motor output kW 0.92 × 4
Motor output kW 0.92 × 4
texternal statuc press. IPa 2000 tection High pressure protection High press,Sensor & High pres,Sensor & High pres,Sensor & High pres,Sensor & High press,Sensor & Hig
Internet include a second seco
Compressor Over-heat protection
Image: frigerant Type x charge R32 × 11.5 (kg) × 4 *5 Constrait Constrait Constrait
Control LEV
tes: Unit converter
Under normal cooling conditions at outdoor temp 35°CDB/24°CWB (95°FDB / 75.2°FWB) outlet water temp 7°C (44.6°F) kcal/h = kW × 860
inlet water temp 12°C (53.6°F). Pump input is not included in cooling capacity and power input. Under normal cooling conditions at outdoor temp 35°CDB/24°CWB (95°FDB/75.2°FWB) outlet water temp 7°C (44.6°F) BTU/h = kW × 3,412
Under normal heating conditions at outdoor temp 7°CDB/6°CWB (44.6°FDB/42.8°FWB) outlet water temp 45°C (113°F)
inlet water temp 40°C (104°F). Pump input is not included in heating capacity and power input. Under normal heating conditions at outdoor temp 7°CDB/6°CWB (44.6°FDB/42.8°FWB) outlet water temp 45°C (113°F)

Construction of the second s

EAHV-M-YCL(-N), EACV-M-YCL(-N)

1. Product Specifications

Model			EAHV-M1800YCL(-N)(-BS)	
Power source Cooling capacity *1		kW	<u>3-phase 4-wire 380-400-415V 50/60Hz</u> 180.00	
cooling subasity .		kcal/h	154,800	
Power input		BTU/h	614,160	
		kW	57 <u>.</u> 02	
	EER		3.16	
	IPLV *6		<u> </u>	
Cooling capacity (EN145	Water flow rate	m ³ /h kW	31.0 178.80	
Cooling capacity (EN 145	11) 2	kcal/h	153,768	
		BTU/h	610,066	
	Power input	kW	58,22	
	EER		3.07	
	Eurovent efficiency class		B	
SEER nsc		%	<u>5.36</u> 211.4	
	Water flow rate	m ³ /h	31.0	
Heating capacity *3		kW	180,00	
		kcal/h	154,800	
	[BTU/h	614,160	
	Power input	kW	53.09	
	COP Water flow rate	m ³ /h	3.39 31.0	
Heating capacity (EN145		kW	181.20	
	··// ·	kcal/h	155,832	
		BTU/h	618,254	
	Power input	kW	54.29	
	COP		3.34	
	SCOP Low/Medium		3.31/2.88	
	nsh Low/Medium Water flow rate	m ³ /h	<u>129.0/112.0</u> 31.0	
Current input	Cooling current 380-400-415V *1	A A	<u> </u>	
ouronemput	Heating current 380-400-415V *3	A	90 - 85 - 82	
	Maximum current	A	120	
Water pressure drop *1	Standard piping	kPa	79	
	Inside header piping	kPa	190	
Temp range	Cooling	°C	Outlet water 4~30 *7	
	Heating	°F °C	Outlet water 39.2~86 *7 Outlet water 25~55 *7	
	lieating	°F	Outlet water 27~131 *7	
	Outdoor (Cooling)	°C	-15~52 *7	
		°F	5~125.6 *7	
	Outdoor (Heating)	°C	-20~43 *7	
		°F	-4~109.4 *7	
Circulating water volume		m ³ /h	12.9~43.0	
	easured in anechoic room) at 1m *1 sured in anechoic room) *1	dB (A) dB (A)	<u> </u>	
Diameter of water pipe	Inlet	mm (in)	65A (2 1/2B) housing type joint	
(Standard piping)	Outlet	mm (in)	65A (2 1/2B) housing type joint	
Diameter of water pipe	Inlet	mm (in)	150A (6B) housing type joint	
(Inside header piping)	Outlet	mm (in)	150A (6B) housing type joint	
External finish			Polyester powder coating steel plate	
External dimension H × V	V × D Standard piping	mm kg (lbs)	2350 × 3400 × 1080 1280 (2822)	
Net weight	Inside header piping	kg (bs)	1307 (2881)	
Design pressure	R32	MPa	4.15	
	Water	MPa	1.0	
Heat exchanger	Water side		Stainless steel plate and copper brazing	
	Air side		Salt-resistant cross fin & aluminium tube	
Compressor	Type Maker			
	Maker Starting method		MITSUBISHI ELECTRIC CORPORATION	
	I Starting method		Inventer	
	Starting method Quantity		4	
		kW	4 11.5 × 4	
	Quantity Motor output Lubricant		4 11.5 × 4 MEL46EH	
Fan	Quantity Motor output	m ³ /min	4 11.5 × 4 MEL46EH 270 × 4	
Fan	Quantity Motor output Lubricant	m ³ /min L/s	4 11.5 × 4 MEL46EH 270 × 4 4500 × 4	
Fan	Quantity Motor output Lubricant Air flow rate	m ³ /min	4 11.5 × 4 MEL46EH 270 × 4 4500 × 4 9534 × 4	
Fan	Quantity Motor output Lubricant Air flow rate Type, Quantity	m ³ /min L/s	4 11.5 × 4 MEL46EH 270 × 4 4500 × 4 9534 × 4 Propeller fan × 4	
Fan	Quantity Motor output Lubricant Air flow rate	m ³ /min L/s	4 11.5 × 4 MEL46EH 270 × 4 4500 × 4 9534 × 4	
Fan	Quantity Motor output Lubricant Air flow rate Type, Quantity Starting method	m ³ /min L/s cfm	4 11.5 × 4 MEL46EH 270 × 4 4500 × 4 9534 × 4 Propeller fan × 4 Inverter	
Fan	Quantity Motor output Lubricant Air flow rate Type, Quantity Starting method Motor output External static press, High pressure protection	m ³ /min L/s cfm kW	4 11.5 × 4 MEL46EH 270 × 4 4500 × 4 9534 × 4 Propeller fan × 4 Inverter 0.92 × 4 20 High pres.Sensor & High pres.Switch at 4.15MPa (601psi)	
	Quantity Motor output Lubricant Air flow rate Type, Quantity Starting method Motor output External static press. High pressure protection Inverter circuit	m ³ /min L/s cfm kW	4 11.5 × 4 MEL46EH 270 × 4 4500 × 4 9534 × 4 Propeller fan × 4 Inverter 0,92 × 4 20 High pres.Sensor & High pres.Switch at 4.15MPa (601psi) Over-heat protection. Over current protection	
Protection	Quantity Motor output Lubricant Air flow rate Type, Quantity Starting method Motor output External static press, High pressure protection Inverter circuit Compressor	m ³ /min L/s cfm kW	4 11.5 × 4 MEL46EH 270 × 4 4500 × 4 9534 × 4 Propeller fan × 4 Inverter 0.92 × 4 20 High pres.Sensor & High pres.Switch at 4.15MPa (601psi) Over-heat protection Over-heat protection	
Protection	Quantity Motor output Lubricant Air flow rate Type, Quantity Starting method Motor output External static press. High pressure protection Inverter circuit Compressor Type × charge	m ³ /min L/s cfm kW	4 11.5 × 4 MEL46EH 270 × 4 4500 × 4 9534 × 4 Propeller fan × 4 Inverter 0.92 × 4 20 High pres.Sensor & High pres.Switch at 4.15MPa (601psi) Over-heat protection Over-heat protection R32 × 11.5 (kg) × 4 *5	
Protection Refrigerant	Quantity Motor output Lubricant Air flow rate Type, Quantity Starting method Motor output External static press, High pressure protection Inverter circuit Compressor	m ³ /min L/s cfm kW	4 11.5 × 4 MEL46EH 270 × 4 4500 × 4 9534 × 4 Propeller fan × 4 Inverter 0.92 × 4 20 High pres.Sensor & High pres.Switch at 4.15MPa (601psi) Over-heat protection Over-heat protection Cver-heat protection R32 × 11.5 (kg) × 4 *5 LEV	
Protection Refrigerant	Quantity Motor output Lubricant Air flow rate Type, Quantity Starting method Motor output External static press. High pressure protection Inverter circuit Compressor Type × charge	m ³ /min L/s cfm kW	4 11.5 × 4 MEL46EH 270 × 4 4500 × 4 9534 × 4 Propeller fan × 4 Inverter 0.92 × 4 20 High pres.Sensor & High pres.Switch at 4.15MPa (601psi) Over-heat protection Over-heat protection R32 × 11.5 (kg) × 4 *5	
Protection Refrigerant Notes: 11 Under normal cooling condit	Quantity Motor output Lubricant Air flow rate Type, Quantity Starting method Motor output External static press. High pressure protection Inverter circuit Compressor Type × charge Control	m³/min L/s cfm kW Pa	4 11.5 × 4 MEL46EH 270 × 4 4500 × 4 9534 × 4 Propeller fan × 4 Inverter 0.92 × 4 20 High pres.Sensor & High pres.Switch at 4.15MPa (601psi) Over-heat protection Over-heat protection R32 × 11.5 (kg) × 4 *5 LEV Unit converter	
Protection Refrigerant Notes: *1 Under normal cooling condit inlet water temp 12°C (53.6	Quantity Motor output Lubricant Air flow rate Type, Quantity Starting method Motor output External static press. High pressure protection Inverter circuit Compressor Type × charge Control	M ³ /min L/s cfm kW Pa 75.2°FWB) outlet water temp and power input.	4 11.5 × 4 MEL46EH 270 × 4 4500 × 4 9534 × 4 Propeller fan × 4 Inverter 0.92 × 4 20 High pres.Sensor & High pres.Switch at 4.15MPa (601psi) Over-heat protection Over-heat protection R32 × 11.5 (kg) × 4 *5 LEV 7°C (44.6°F)	
Protection Refrigerant Notes: *1 Under normal cooling condit inlet water temp 12°C (53.6 *2 Under normal cooling condit inlet water temp 12°C (53.6	Quantity Motor output Lubricant Air flow rate Type, Quantity Starting method Motor output External static press. High pressure protection Inverter circuit Compressor Type × charge Control		4 11.5 × 4 MEL46EH 270 × 4 4500 × 4 9534 × 4 Propeller fan × 4 Inverter 0.92 × 4 20 High pres.Sensor & High pres.Switch at 4.15MPa (601psi) Over-heat protection Over-heat protection R32 × 11.5 (kg) × 4 *5 LEV Unit converter kcal/n = kW × 860 BTU/h = kW × 3.412 11.	
Protection Refrigerant Notes: *1 Under normal cooling condit inlet water temp 12°C (53.6 ?2 Under normal cooling condit in let water temp 12°C (53.6	Quantity Motor output Lubricant Air flow rate Type, Quantity Starting method Motor output External static press, High pressure protection Inverter circuit Compressor Type × charge Control	m ³ /min L/s cfm cfm kW Pa 75.2°FWB) outlet water temp and power input. Safet Water temp 7 power input based on EN144 serWBD outlet water temp not based on EN144	4 11.5 × 4 MEL46EH 270 × 4 4500 × 4 9534 × 4 Propeller fan × 4 Inverter 0,92 × 4 20 High pres,Sensor & High pres,Switch at 4.15MPa (601psi) Over-heat protection Q2 × 11.5 (kg) × 4 *5 LEV Unit converter kcal/h = kW × 860 BTU/h = kW × 3.412 11.5 °C (113°F)	
Protection Refrigerant Notes: *1 Under normal cooling condi inlet water temp 12°C (53.6 2 Under normal cooling condi inlet water temp 12°C (53.6 3 Under normal heating condi inlet water temp 40°C (104° 4 Under normal heating condi	Quantity Motor output Lubricant Air flow rate Type, Quantity Starting method Motor output External static press. High pressure protection Inverter circuit Compressor Type × charge Control	M ³ /min L/s cfm KW Pa Pa 75.2°FWB) outlet water temp and power input. 5.2°FWB) outlet water temp 1 and power input. 8°FWB) outlet water temp 4 and power input. 8°FWB) outlet water temp 4	4 11.5 × 4 MEL46EH 270 × 4 4500 × 4 9534 × 4 Propeller fan × 4 Inverter 0.92 × 4 20 High pres.Sensor & High pres.Switch at 4.15MPa (601psi) Over-heat protection Over-heat protection Over-heat protection Over-heat protection R32 × 11.5 (kg) × 4 * 5 LEV Unit converter *C (44.6°F) *C (113°F) \$FC (113°F)	
Protection Refrigerant Notes: 11 Under normal cooling condit inlet water temp 12°C (53.6 22 Under normal cooling condit inlet water temp 412°C (104° 13 Under normal neating condit inlet water temp 40°C (104° 14 Under normal heating condit inlet water temp 40°C (104°	Quantity Motor output Lubricant Air flow rate Type, Quantity Starting method Motor output External static press. High pressure protection Inverter circuit Compressor Type × charge Control	M ³ /min L/s Cfm Cfm Cfm KW Pa For the second	4 11.5 × 4 MEL46EH 270 × 4 4500 × 4 9534 × 4 Propeller fan × 4 Inverter 0.92 × 4 20 High pres.Sensor & High pres.Switch at 4.15MPa (601psi) Over-heat protection Over-heat protection Over-heat protection Over-heat protection R32 × 11.5 (kg) × 4 * 5 LEV Unit converter *C (44.6°F) *C (113°F) \$FC (113°F)	
Protection Refrigerant Notes: 11 Under normal cooling condit inlet water temp 12°C (53.6 22 Under normal cooling condit inlet water temp 412°C (104° 13 Under normal neating condit inlet water temp 40°C (104° 14 Under normal heating condit inlet water temp 40°C (104°	Quantity Motor output Lubricant Air flow rate Type, Quantity Starting method Motor output External static press, High pressure protection Inverter circuit Compressor Type × charge Control	M ³ /min L/s Cfm Cfm Cfm KW Pa For the second	4 11.5 × 4 MEL46EH 270 × 4 4500 × 4 9534 × 4 Propeller fan × 4 Inverter 0.92 × 4 20 High pres.Sensor & High pres.Switch at 4.15MPa (601psi) Over-heat protection Over-heat protection Over-heat protection R32 × 11.5 (kg) × 4 *5 LEV Unit converter kcal/h = kW × 860 BT U/h = kW × 3.412 Ibs = kg/0.4536 cfm = m ³ /min × 35.31	
Protection Refrigerant Notes: *1 Under normal cooling condii inlet water temp 12°C (53.6 *2 Under normal heating condii inlet water temp 20°C (104' *3 Under normal heating condii inlet water temp 40°C (104' *4 Under normal heating condii inlet water temp 40°C (104' *5 Amount of factory-charged 1 *6 IPLV is calculated in accord *7 Elease don't use the steel ma	Quantity Motor output Lubricant Air flow rate Type, Quantity Starting method Motor output External static press. High pressure protection Inverter circuit Compressor Type × charge Control tions at outdoor temp 35°CDB/24°CWB (95°FDB / 1°CP), Pump input is not included in cooling capacity and tions at outdoor temp 7°CDB/8°CWB (44.6°FDB/4°F), Pump input is included in loading capacity and tions at outdoor temp 7°CDB/8°CWB (44.6°FDB/4°F), Pump input is included in the ting capacity and tions at outdoor temp 7°CDB/8°CWB (44.6°FDB/4°F), Pump input is not included in the refrigerant is a fight at the refrigerant is circled at the refrigerant is circled to the vater ping.	M ³ /min L/s Cfm Cfm Cfm KW Pa Pa Cfc.2°FWB) outlet water temp and power input. 32°FWB) outlet water temp 7 power input based on EN148 8°FWB) outlet water temp 4 power input. 8°FWB) outlet water temp 4 power input.	4 11.5 × 4 MEL46EH 270 × 4 4500 × 4 9534 × 4 Propeller fan × 4 Inverter 0.92 × 4 20 High pres.Sensor & High pres.Switch at 4.15MPa (601psi) Over-heat protection Over-heat protection Over-heat protection R32 × 11.5 (kg) × 4 *5 LEV Unit converter kcal/h = kW × 860 BT U/h = kW × 3.412 Ibs = kg/0.4536 cfm = m ³ /min × 35.31	
Protection Refrigerant Notes: *1 Under normal cooling condit inlet water temp 12°C (53.6 2 Under normal cooling condit inlet water temp 40°C (104° *3 Under normal heating condit inlet water temp 40°C (104° *4 Under normal heating condit inlet water temp 40°C (104° *5 Amount of factory-charged 1 6 JPLV is calculated in accord *Please advays make water cir *Please advays make water cir	Quantity Motor_output Lubricant Air flow rate Type, Quantity Starting method Motor_output External static press, High pressure protection Inverter circuit Compressor Type × charge Control	M ³ /min L/s Cfm Cfm Cfm KW Pa Pa Cfc.2°FWB) outlet water temp and power input. 32°FWB) outlet water temp 7 power input based on EN148 8°FWB) outlet water temp 4 power input. 8°FWB) outlet water temp 4 power input.	4 11.5 × 4 MEL46EH 270 × 4 4500 × 4 9534 × 4 Propeller fan × 4 Inverter 0.92 × 4 20 High pres.Sensor & High pres.Switch at 4.15MPa (601psi) Over-heat protection Over-heat protection Over-heat protection R32 × 11.5 (kg) × 4 *5 LEV Unit converter kcal/h = kW × 860 BT U/h = kW × 3.412 Ibs = kg/0.4536 cfm = m ³ /min × 35.31	
Protection Refrigerant Notes: *1 Under normal cooling condit inlet water temp 12°C (53.6 2 Under normal cooling condit inlet water temp 40°C (104° 3 Under normal heating condit inlet water temp 40°C (104° *5 Amount of factory-charged t *6 IPLV is calculated in accord *Please don't use the steel ma *Please advase make water cir	Quantity Motor output Lubricant Air flow rate Type, Quantity Starting method Motor output External static press, High pressure protection Inverter circuit Compressor Type × charge Control	M ³ /min L/s cfm cfm kW Pa kW Pa constant of the second	4 11.5 × 4 MEL46EH 270 × 4 4500 × 4 9534 × 4 Propeller fan × 4 Inverter 0.92 × 4 20 High pres.Sensor & High pres.Switch at 4.15MPa (601psi) Over-heat protection Over-heat protection 0.92 × 4 20 High pres.Sensor & High pres.Switch at 4.15MPa (601psi) Over-heat protection Over-heat protection R32 × 11.5 (kg) × 4 *5 LEV Unit converter Kcal/h = kW × 860 BTU/h = kW × 3.412 Ibs = kg/0.4536 cfm = m ³ /min × 35.31	
Protection Refrigerant Notes: *1 Under normal cooling condit inlet water temp 12°C (53.6 2 Under normal cooling condit inlet water temp 40°C (104° 3 Under normal heating condit inlet water temp 40°C (104° *5 Amount of factory-charged t *6 IPLV is calculated in accord *Please don't use the steel ma *Please advase make water cir	Quantity Motor output Lubricant Air flow rate Type, Quantity Starting method Motor output External static press. High pressure protection Inverter circuit Compressor Type × charge Control	M ³ /min L/s cfm cfm kW Pa kW Pa constant of the second	4 11.5 × 4 MEL46EH 270 × 4 4500 × 4 9534 × 4 Propeller fan × 4 Inverter 0.92 × 4 20 High pres.Sensor & High pres.Switch at 4.15MPa (601psi) Over-heat protection Over-heat protection Over-heat protection R32 × 11.5 (kg) × 4 *5 LEV Unit converter kcal/h = kW × 860 BT U/h = kW × 3.412 Ibs = kg/0.4536 cfm = m ³ /min × 35.31	

MEES23K034

Model			EACV-M1500YCL(-N)(-BS) 3-phase 4-wire 380-400-415V 50/60H		
Power source Cooling capacity *1		kW	3-phase 4-wire 380-400-415V 50/60H	L	
Cooling capacity "1			129,000		
		kcal/h BTU/h	,		
	Devices in evit		511,800		
	Power input	kW	44.73		
	EER IPLV *4		3.35		
			6.42		
	Water flow rate	m ³ /h	25.8		
Cooling capacity(EN14511	1)*2	kW	149.18		
		kcal/h	128,295		
	Deventionent	BTU/h	509,002		
	Power input EER	kW	45.55		
			3.28		
Eurovent efficiency class SEER			A 5.52		
		%			
	ηsc	m ³ /h	217.8		
Current input	Water flow rate	A A			
Current input	Cooling current 380-400-415V *1		76 - 72 - 69		
Wotor proposition data #1	Maximum current	A	120		
Water pressure drop *1	Standard piping Inside header piping	kPa kPa	56		
Temp range	Cooling	°C	Outlet water 4~30 *5		
	-	°F	Outlet water 39.2~86 *5		
	Outdoor	°C	-15~52 *5		
		°F	5~125.6 *5		
Circulating water volume r	ange	m ³ /h	12.9~43.0		
	asured in anechoic room) at 1m *1	dB (A)	65		
Sound power level (measu		dB (A)	83		
Diameter of water pipe	Inlet	mm (in)	65A (2 1/2B) housing type joint		
(Standard piping)	Outlet	mm (in)	65A (2 1/2B) housing type joint		
Diameter of water pipe	Inlet	mm (in)	150A (6B) housing type joint		
(Inside header piping)	Outlet	mm (in)	150A (6B) housing type joint		
External finish		(,	Polyester powder coating steel plate		
External dimension H × W	×D	mm	2350 × 3400 × 1080		
Net weight	- Standard piping	kg (lbs)	1039 (2291)		
	Inside header piping	kg (lbs)	1067 (2352)		
Design pressure	R32	MPa	4.15		
Boolgir procedie	Water	MPa	1.0		
Heat exchanger	Water MPa		Stainless steel plate and copper brazing		
indut oxonangoi			Stainless steel plate and copper brazing Salt-resistant corrugated fin & aluminium micro channel		
Compressor	Air side Type				
Comprosoor	Maker		MITSUBISHI ELECTRIC CORPORATI		
	Starting method			Inverter	
	Quantity		4		
	Motor output kW				
	Lubricant		MEL46EH		
Fan	Air flow rate	m ³ /min	270 × 4		
		L/s	4500 × 4		
		cfm	9534 × 4		
	Type, Quantity		9534 × 4 Propeller fan × 4		
	Starting method			Inverter	
	Motor output kW		0.92 × 4		
	External static press.	Pa	20		
Protection	High pressure protection	٢٩	20 High pres.Sensor & High pres.Switch at 4.15MPa (601psi)		
Protection	High pressure protection		High pres.Sensor & High pres.Switch at 4.15MPa (601psi) Over-heat protection, Over current protection		
			Over-heat protection, Over current protection		
	Compressor		R32 × 4.7 (kg) × 4 *3		
nemyeranı	Type × charge Control		R32 × 4.7 (kg) × 4 * 3 LEV		
	Control		LEV		
inlet water temp 12°C (*2 Under normal cooling c inlet water temp 12°C (*3 Amount of factory-charg *4 IPLV is calculated in ac *Please don't use the stee *Please always make wate	onditions at outdoor temp 35°CDB/24°CV 53.6°F). Pump input is not included in coc onditions at outdoor temp 35°CDB/24°CV 53.6°F). Pump input is included in cooling ged refrigerant is 3 (kg) × 4. Please add th cordance with AHRI 550-590. I material for the water piping. er circulate, or pull the circulation water out water or well water in direct. closed circuit. rement, the above specifications may be s	ling capacity and p VB (95°FDB/75.2°F) capacity and pow e refrigerant at the ut completely when	oower input. WB) outlet water temp 7°C (44.6°F) er input based on EN14511. field. not in use.	Unit converter kcal/h = kW × 860 BTU/h = kW × 3,412 lbs = kg/0.4536 cfm = m ³ /min × 35.31	

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EER IPLV Water Cooling capacity(EN14511) *2 Powe EER Eurov SEEF nsc Current input Current input Water pressure drop *1	*4 er flow rate er input vent efficiency class R er flow rate ing current 380-400-415V *1 mum current dard piping e header piping oor oor	kW kcal/h BTU/h kW m³/h kW kW kW kW kW kQ m³/h kW kW kQ % m³/h A A kPa °C °F m³/h dB (A)	EACV-M1800YCL(-N)(-BS) 3-phase 4-wire 380-400-415V 50/60Hz 180.00 154,800 614,160 57.02 3.16 6.31 3.10 178.80 153,768 610,066 58.22 3.07 B 5.36 211.4 31.0 96 - 91 - 88 120 79 190 00tlet water 39.2~86 *5 - 15~52 *5		
Cooling capacity *1 Powe EER IPLV Water Cooling capacity(EN14511) *2 Cooling capacity(EN14511) *2 Powe EER Eurov SEEF ŋsc Uvater Current input Coolin Gata Circulating water volume range Sound pressure level (measured in Sound power level (measured in ar Diameter of water pipe Inlet (Standard piping) Outled	*4 *4 er flow rate er input vent efficiency class R er flow rate ing current 380-400-415V *1 mum current dard piping e header piping oor n anechoic room) at 1m *1	kcal/h BTU/h kW m ³ /h kW kcal/h BTU/h kW kCal/h BTU/h kW kCal/h BTU/h kW kCal/h BTU/h kW c c c c c c c c c c c c c c c c c c	180.00 154,800 614,160 57.02 3.16 6.31 31.0 178.80 153,768 610,066 58.22 3.07 B 5.36 211.4 31.0 96 - 91 - 88 120 79 190 Outlet water 39.2~86 *5 0Utlet water 39.2~86 *5		
Powe EER IPLV Water Cooling capacity(EN14511) *2 Powe EER Eurov SEEF nsc Water Cooling capacity(EN14511) *2 Powe EER Eurov SEEF nsc Water Current input Cooling Maxin Maxin Inside Temp range Cooling Sound pressure level (measured in ar Sound power level (measured in ar Diameter of water pipe Inlet (Standard piping)	*4 *4 er flow rate er input vent efficiency class R er flow rate ing current 380-400-415V *1 mum current dard piping e header piping oor n anechoic room) at 1m *1	kcal/h BTU/h kW m ³ /h kW kcal/h BTU/h kW kCal/h BTU/h kW kCal/h BTU/h kW kCal/h BTU/h kW c c c c c c c c c c c c c c c c c c	154,800 614,160 57.02 3.16 6.31 31.0 178,80 178,80 16 6.31 31.0 178,80 153,768 610,066 58,22 3.07 B 5.36 211.4 31.0 96 - 91 - 88 120 79 190 Outlet water 4~30 *5 Outlet water 39,2~86 *5 -15~52 *5		
EER IPLV Water Cooling capacity(EN14511) *2 Powe EER Eurov SEEF nside Current input Coolin Water pressure drop *1 Stand Inside Inside Temp range Coulir Sound pressure level (measured in ar Sound power level (measured in ar Diameter of water pipe Inlet (Standard piping) Outled	*4 *4 er flow rate er input vent efficiency class R er flow rate ing current 380-400-415V *1 mum current dard piping e header piping oor n anechoic room) at 1m *1	BTU/h kW m ³ /h kW kcal/h BTU/h kW BTU/h kW m ³ /h A A kPa kPa kPa kPa kPa c °F °F m ³ /h	614,160 57.02 3.16 6.31 31.0 178,80 153,768 610,066 58,22 3.07 B 5,36 211.4 31.0 96 - 91 - 88 120 79 190 0utlet water 4~30 *5 Outlet water 39,2~86 *5 -15~52 *5		
EER IPLV Water Cooling capacity(EN14511) *2 Powe EER Eurov SEEF nside Corrent input Coolin Water pressure drop *1 Stand Inside Inside Temp range Coulir Sound pressure level (measured in ar Sound power level (measured in ar Diameter of water pipe Inlet (Standard piping) Outled	*4 *4 er flow rate er input vent efficiency class R er flow rate ing current 380-400-415V *1 mum current dard piping e header piping oor n anechoic room) at 1m *1	kW m³/h kW kal/h BTU/h kW a % m³/h A A kPa kPa °C °F °C °F m³/h	57.02 3.16 6.31 31.0 178.80 153.768 610.066 58.22 3.07 B 5.36 211.4 31.0 96 - 91 - 88 120 79 190 Outlet water 39.2~86 *5 Outlet water 39.2~86 *5 -15~52 *5		
EER IPLV Water Cooling capacity(EN14511) *2 Powe EER Eurov SEEF nside Current input Coolin Water pressure drop *1 Stand Inside Inside Temp range Coulir Sound pressure level (measured in ar Sound power level (measured in ar Diameter of water pipe Inlet (Standard piping) Outled	*4 *4 er flow rate er input vent efficiency class R er flow rate ing current 380-400-415V *1 mum current dard piping e header piping oor n anechoic room) at 1m *1	m ³ /h kW kcal/h BTU/h kW % m ³ /h A A kPa kPa °C °F °F m ³ /h	3.16 6.31 31.0 178.80 153,768 610,066 58.22 3.07 B 5.36 211.4 31.0 96 - 91 - 88 120 79 190 Outlet water 4~30 *5 Outlet water 39,2~86 *5 -15~52 *5		
Cooling capacity(EN14511) *2 Cooling capacity(EN14511) *2 Powe EER Eurov SEEF nsc Water Current input Current input Current input Coolin Maxin Water pressure drop *1 Sound pressure level (measured in ar Diameter of water pipe Inlet (Standard piping) Outled	*4 er flow rate er input vent efficiency class R er flow rate ing current 380-400-415V *1 mum current dard piping e header piping oor oor	kW kcal/h BTU/h kW % m³/h A kPa kPa °F °F m³/h	6.31 31.0 178.80 153,768 610,066 58.22 3.07 B 5.36 211.4 31.0 96 - 91 - 88 120 79 190 Outlet water 39.2~86 *5 Outlet water 39.2~86 *5 -15~52 *5		
Cooling capacity(EN14511) *2 Cooling capacity(EN14511) *2 Powe EER Eurov SEEF nsc Water Current input Current input Current input Coolin Maxin Water pressure drop *1 Sound pressure level (measured in ar Diameter of water pipe Inlet (Standard piping) Outled	*4 er flow rate er input vent efficiency class R er flow rate ing current 380-400-415V *1 mum current dard piping e header piping oor oor	kW kcal/h BTU/h kW % m³/h A kPa kPa °F °F m³/h	6.31 31.0 178.80 153,768 610,066 58.22 3.07 B 5.36 211.4 31.0 96 - 91 - 88 120 79 190 Outlet water 39.2~86 *5 Outlet water 39.2~86 *5 -15~52 *5		
Cooling capacity(EN14511) *2 Powe EER Eurov SEEF 78C Vater Current input Current input Current input Current input Coolin Maxin Water pressure drop *1 Inside Temp range Coolin Circulating water volume rarge Sound pressure level (measured in ar Diameter of water pipe (Standard piping) Outled	er flow rate er input vent efficiency dass R er flow rate ing current 380-400-415V *1 mum current dard piping e header piping ing oor n anechoic room) at 1m *1	kW kcal/h BTU/h kW % m³/h A kPa kPa °F °F m³/h	31.0 178.80 153,768 610,066 58.22 3.07 B 5.36 211.4 31.0 96 - 91 - 88 120 79 190 Outlet water 4~30 *5 Outlet water 39.2~86 *5 -15~52 *5		
Cooling capacity(EN14511) *2 Powe EER Eurov SEEF nsc Vater Current input	er input vent efficiency dass R er flow rate ing current 380-400-415V *1 mum current dard piping e header piping ing oor	kW kcal/h BTU/h kW % m³/h A kPa kPa °F °F m³/h	178.80 153,768 610,066 58.22 3.07 B 5.36 211.4 31.0 96 - 91 - 88 120 79 190 Outlet water 39.2~86 *5 -15~52 *5		
Powe EER Eurov SEEF nsc Water Current input Coolir Maxim Maxim Water pressure drop *1 Standa Inside Inside Temp range Coolir Circulating water volume range Outdot Sound pressure level (measured in ar Inside Sound power level (measured in ar Inside Diameter of water pipe Inlet (Standard piping) Outled	vent efficiency dass R r flow rate ing current 380-400-415V *1 mum current dard piping e header piping ing oor	kcal/h BTU/h kW % m ³ /h A A kPa kPa kPa °C °F °F °F m ³ /h	153,768 610,066 58.22 3.07 B 5.36 211.4 31.0 96 - 91 - 88 120 79 190 0utlet water 4~30 *5 Outlet water 39.2~86 *5 -15~52 *5		
EER Eurov SEEF nsc Vater Coolir Maxin Maxin Water pressure drop *1 Stand Inside Inside Temp range Coolir Circulating water volume range Outdot Sound pressure level (measured in ar Diameter of water pipe Inside Inside Sound pressure level (measured in ar Diameter of water pipe Inlet (Standard piping) Outlet	vent efficiency dass R r flow rate ing current 380-400-415V *1 mum current dard piping e header piping ing oor	BTU/h kW % m ³ /h A kPa kPa °C °F °F m ³ /h	610,066 58.22 3.07 B 5.36 211.4 31.0 96 - 91 - 88 120 79 190 Outlet water 4~30 *5 Outlet water 39.2~86 *5 -15~52 *5		
EER Eurov SEEF nsc Water Coolir Maxin Maxin Water pressure drop *1 Stand Inside Inside Temp range Outdot Circulating water volume range Outdot Sound pressure level (measured in ar Diameter of water pipe Inside Inside Sound power level (measured in ar Outdot Outdot Outdot	vent efficiency dass R r flow rate ing current 380-400-415V *1 mum current dard piping e header piping ing oor	kW % m³/h A kPa °C °F °C °F m³/h	58.22 3.07 B 5.36 211.4 31.0 96 - 91 - 88 120 79 190 Outlet water 4~30 *5 Outlet water 39.2~86 *5 -15~52 *5		
EER Eurov SEEF nsc Water Coolir Maxin Maxin Water pressure drop *1 Stand Inside Inside Temp range Outdot Circulating water volume range Outdot Sound pressure level (measured in ar Diameter of water pipe Inside Inside Sound power level (measured in ar Outdot Outdot Outdot	vent efficiency dass R r flow rate ing current 380-400-415V *1 mum current dard piping e header piping ing oor	% m ³ /h A kPa ℃ °C °F °F m ³ /h	3.07 B 5.36 211.4 31.0 96 - 91 - 88 120 79 190 0utlet water 4~30 *5 Outlet water 39.2~86 *5 -15~52 *5		
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SEEF nsc Valer Coolir Maxin Maxin Water pressure drop *1 Stand Inside Temp range Coolir Circulating water volume range Outdot Sound pressure level (measured in ar Sound power level (measured in ar Diameter of water pipe Inlet (Standard piping) Outdot	R er flow rate ing current 380-400-415V *1 mum current dard piping e header piping oor	m ³ /h A KPa kPa ℃ °F °C °F m ³ /h	5.36 211.4 31.0 96 - 91 - 88 120 79 190 Outlet water 4~30 *5 Outlet water 39.2~86 *5 -15~52 *5		
nsc Water Current input Coolir Maxin Water pressure drop *1 Stand Inside Temp range Coolir Circulating water volume range Outdot Sound pressure level (measured in ar Diameter of water pipe In let In let (Standard piping)	er flow rate ing current 380-400-415V *1 mum current dard piping e header piping oor n anechoic room) at 1m *1	m ³ /h A KPa kPa ℃ °F °C °F m ³ /h	211.4 31.0 96 - 91 - 88 120 79 190 Outlet water 4~30 *5 Outlet water 39.2~86 *5 -15~52 *5		
Current input Coolir Maxin Water pressure drop *1 Stand Inside Temp range Coolir Circulating water volume range Sound pressure level (measured in ar Diameter of water pipe Inlet (Standard piping) Outled	ing current 380-400-415V *1 mum current dard piping e header piping ing oor	m ³ /h A KPa kPa ℃ °F °C °F m ³ /h	31.0 96 - 91 - 88 120 79 190 Outlet water 4~30 *5 Outlet water 39.2~86 *5 -15~52 *5		
Current input Coolir Maxin Water pressure drop *1 Stand Inside Temp range Coolir Curculating water volume range Sound pressure level (measured in Sound power level (measured in ar Diameter of water pipe Inlet (Standard piping) Outlet	ing current 380-400-415V *1 mum current dard piping e header piping ing oor	A A kPa °C °F °C °F m ³ /h	96 - 91 - 88 120 79 190 Outlet water 4~30 *5 Outlet water 39.2~86 *5 -15~52 *5		
Maxim Water pressure drop *1 Stand Inside Temp range Coolir Circulating water volume range Outdot Sound pressure level (measured in Sound power level (measured in ar Diameter of water pipe Inlet (Standard piping)	mum current dard piping e header piping ing oor n anechoic room) at 1m *1	A kPa °C °F °F m ³ /h	120 79 190 Outlet water 4~30 *5 Outlet water 39.2~86 *5 -15~52 *5		
Water pressure drop *1 Stand Inside Temp range Coolir Circulating water volume range Outdot Sound pressure level (measured in Sound power level (measured in ar Diameter of water pipe Inlet Inlet (Standard piping)	dard piping e header piping ing oor n anechoic room) at 1m *1	kPa kPa °C °F °C °F m ³ /h	79 190 Outlet water 4~30 *5 Outlet water 39.2~86 *5 -15~52 *5		
Inside Temp range Coolir Outdot Outdot Circulating water volume range Sound pressure level (measured in ar Diameter of water pipe (Standard piping)	e header piping ing oor n anechoic room) at 1m *1	kPa °C °F °C °F m ³ /h	190 Outlet water 4~30 *5 Outlet water 39.2~86 *5 -15~52 *5		
Inside Temp range Coolir Outdot Outdot Circulating water volume range Sound pressure level (measured in ar Diameter of water pipe Inlet Inlet Outdot Outdot	e header piping ing oor n anechoic room) at 1m *1	kPa °C °F °C °F m ³ /h	190 Outlet water 4~30 *5 Outlet water 39.2~86 *5 -15~52 *5		
Temp range Coolir Outdo Circulating water volume range Sound pressure level (measured in Sound power level (measured in ar Diameter of water pipe Inlet (Standard piping) Outlet	ng oor n anechoic room) at 1m *1	°F °C °F m ³ /h	Outlet water 39.2~86 *5 -15~52 *5		
Circulating water volume range Sound pressure level (measured in Sound power level (measured in ar Diameter of water pipe (Standard piping)	n anechoic room) at 1m *1	°C °F m ³ /h	-15~52 *5		
Circulating water volume range Sound pressure level (measured in Sound power level (measured in ar Diameter of water pipe (Standard piping)	n anechoic room) at 1m *1	°F m ³ /h			
Sound pressure level (measured in ar Sound power level (measured in ar Diameter of water pipe Inlet (Standard piping) Outlet	1	m ³ /h	5~125.6 *5		
Sound pressure level (measured in ar Sound power level (measured in ar Diameter of water pipe Inlet (Standard piping) Outlet	1	_			
Sound pressure level (measured in Sound power level (measured in ar Diameter of water pipe Inlet (Standard piping) Outlet	1	_	12.9~43.0		
Sound power level (measured in ar Diameter of water pipe Inlet (Standard piping) Outlet	1				
Diameter of water pipe Inlet (Standard piping) Outlet		dB (A)	85		
(Standard piping) Outlet					
(11 8)		mm (in)	65A (2 1/2B) housing type joint		
Diameter of water pipe Inlet	et	mm (in)	65A (2 1/2B) housing type joint		
		mm (in)	150A (6B) housing type joint		
(Inside header piping) Outlet	et	mm (in)	150A (6B) housing type joint		
External finish			Polyester powder coating steel plate		
External dimension H × W × D		mm	2350 × 3400 × 1080		
Net weight Stand	dard piping	kg (lbs)	1039 (2291)		
Inside	e header piping	kg (lbs)	1067 (2352)		
Design pressure R32		MPa	4.15		
Water	ar	MPa	1.0		
	Water side		Stainless steel plate and copper brazing		
-			Salt-resistant corrugated fin & aluminium micro channel		
	Air side				
	Туре			JBISHI ELECTRIC CORPORATION	
	Maker			N	
	Starting method		Inverter		
	Quantity		4		
Motor	Motor output kW		11.5 × 4		
Lubric	icant		MEL46EH		
Fan Airflo	ow rate	m ³ /min	270 × 4		
		L/s	4500 × 4		
		cfm	9534 × 4		
Type,	Type, Quantity		Propeller fan × 4	Propeller fan × 4	
Starti	Starting method		Inverter	Inverter	
	Motor output kW			0.92 × 4	
	mal static press.	Pa	20		
				a (601pai)	
	High pressure protection			High pres.Sensor & High pres.Switch at 4.15MPa (601psi) Over-heat protection, Over current protection	
	Inverter circuit		Over-heat protection, Over current protection Over-heat protection		
	Compressor				
-	Type × charge		R32 × 4.7 (kg) × 4 *3		
Contr	rol		LEV		
inlet water temp 12°C (53.6°F). *2 Under normal cooling conditions inlet water temp 12°C (53.6°F). *3 Amount of factory-charged refrig *4 IPLV is calculated in accordance *Please don't use the steel materia *Please don't use the steel materia	al for the water piping. ate, or pull the circulation water out co r well water in direct.	capacity and p 95°FDB/75.2°F acity and power frigerant at the mpletely when	power input. FWB) outlet water temp 7°C (44.6°F) er input based on EN14511. e field. n not in use.	Unit converter kcal/h = kW × 860 BTU/h = kW × 3,412 lbs = kg/0.4536 cfm = m ³ /min × 35.31	

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*Due to continuous improvement, the above specifications may be subject to change without notice. *This model doesn't equip with a pump. *5 Please refer to 2-1-6. Operation temperature range.