Modular Reversible Heat Pump Range

EAHV-M1500-2000YCL(-N)(-BS)



Cooling Capacity: 150 – 200kW
Heating Capacity: 150 – 200kW

e-Series offer a modern approach to traditional heat pumps. Utilising Mitsubishi Electric's latest technologies, e-Series heat pumps deliver superior performance, improved energy efficiency and reduced running costs across a wide range of operating conditions.

Used as standalone units or combined in modular configurations, e-Series systems provide scalable capacities from 150kW to 4,800kW. Their compact footprint, ease of installation and efficient, low-carbon operation make them an ideal solution for high-performance applications.

Low Noise Operation

83dBA*1

Narrow Footprint

4x Circuits

4x Inverter Compressors

High Efficiency Performance

3.47 COP*2

3.31 SCOP*3

e series

MODULAR REVERSIBLE HEAT PUMP RANGE

Key Features

Reversible Heat Pump Modules (150kW, 180kW, and 200kW)

e-Series are available in 150kW, 180kW, and 200kW reversible heat pump modules to suit a wide range of applications.

Scalable Capacity and Enhanced System Resilience

A truly flexible solution, e-Series can be installed as a standalone single module, or with up to 24 modules in a combined interlinked system of up to 4,800kW, making it ideal for projects from small commercial sites to large industrial facilities.

The modular design provides built-in resilience, with redundancy across modules eliminating the need for a dedicated backup heat pump. Intelligent controls further enhance system performance by managing load sharing, duty rotation, and automatic fault response.

High Efficiency and Redundancy

Each module includes four inverter-driven scroll compressors and variable-speed fans each on their own refrigerant circuit – delivering excellent full-load and seasonal efficiency, built-in redundancy, and fast ROI.

Compact Physical Footprint

e-Series offer up to 53% space saving (including clearances) when compared to traditional unitary heat pumps. e-Series are available with built-in headers ideal for constrained plant and rooftop installations.

Precise Capacity Control and Wide Operating Range

Seamless capacity modulation from 8% to 100%, provides precise control of supply water temperatures for optimal comfort. This ultra-low turndown performance significantly reduces the need for separate low-load heat pumps. What's more, e-Series has a temperature operating range in heating up to 55°C.

Quiet Operation

With a full load sound power level of only 83dBA*1, advanced acoustic engineering makes the e-Series suitable for noise-sensitive environments.

Low Inrush Current

With Mitsubishi Electric's inverter-driven compressors and fans, the e-Series has exceptionally low inrush current compared to fixed-speed compressor systems, reducing electrical stress on start up.

Low Environmental Impact

With 46kg of R32 refrigerant evenly distributed across four independent circuits, each heating-only module has a CO_2-equivalent footprint of just 7.79t per circuit (31.1t total), significantly reducing environmental impact.

*1 EAHV-M1500YCL(-N)(-BS) sound power level measured in anechoic room in cooling mode.
*2 EAHV-M1500YCL(-N)(-BS) regulation EN14511.
*3 EAHV-M1500YCL(-N)(-BS) regulation EN14511 low temperature application.

Specifications

150kW, 180kW, and 200kW Modular Reversible Heat Pump

			EAHV-M1500YCL(-N)(-BS)	EAHV-M1800YCL(-N)(-BS)	EAHV-M2000YCL(-N)(-BS)
POWER SUPPLY			3-phase 4-wire 380-400-415V 50/60Hz		
COOLING CAPACITY [*1]		kW	150.00	180.00	200.00
	Power Input	kW	44.73	57.02	66.66
	Cooling Current 380 - 400 - 415V	A	76 - 72 - 69	96 - 91 - 88	113 - 107 - 103
	EER		3.35	3.16	3.00
	IPLV[*5]		6.42	6.31	6.19
COOLING CAPACITY (EN14511) [*2]		kW	149.18	178.80	198.45
	Power Input	kW	45.55	58.22	68.21
	EER		3.28	3.07	2.91
	ηsc		217.8	211.4	204.2
	SEER		5.52	5.36	5.18
HEATING CAPACITY [*3]		kW	150.00	180.00	200.00
	Power Input	kW	42.61	53.09	60.6
	Heating Current 380-400-415V	A	72 - 68 - 66	90 - 85 - 82	102 - 97 - 94
	COP		3.52	3.39	3.30
HEATING CAPACITY (EN14511) [*4]		kW	150.82	181.20	201.55
	Power Input	kW	43.43	54.29	62.15
	COP		3.47	3.34	3.24
	SCOP Low/Medium		3.31 / 2.88		3.45 / 2.85
CURRENT INPUT	Max / Starting	A	120 / 23		135 / 23
WATER PRESSURE DROP [*1]	Standard Piping Without Internal Header	kPa	56	79	96
	With Internal Header (N)	kPa	134	190	231
TEMPERATURE RANGE	Cooling	°C	Outlet water 4~30		
	Heating	°C	Outlet water 24~55		
	Cooling (Outdoor)	°C	-15~52		
	Heating (Outdoor)	°C	-20~43		
WATER FLOW RATE	Nominal	L/s	7.2	8.6	9.6
	Range	L/s	3.6~12.5		
SOUND PRESSURE LEVEL [*1]	Measured in anechoic room at 1m	dB(A)	65	67	69
SOUND POWER LEVEL [*1]	Measured in anechoic room	dB(A)	83	85	87
DIAMETER OF WATER PIPE (STANDARD PIPING)	Inlet and Outlet		65A grooved pipe coupling joint (76.1mm OD)		
DIAMETER OF WATER PIPE (INTERNAL HEADER PIPING)	Inlet and Outlet		150A grooved pipe coupling joint (165.1mm OD)		
EXTERNAL FINISH			Polyester powder coated steel plate		
EXTERNAL DIMENSION	W x D x H	mm	3400 x 1080 x 2350		
NET WEIGHT / OPERATING WEIGHT	Standard Piping	kg	1280 / 1315		
	Internal Header Piping	kg	1307 / 1382		
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 (HFT)		
COMPRESSOR	Type		Inverter scroll hermetic compressor		
	Maker		Mitsubishi Electric Corporation		
	Starting Method		Inverter (soft start)		
	Quantity		4		
	Motor Output	kW	11.5 x 4		13.9 x 4
FAN	Air Flow Rate	L/s	4500 x 4		
	Type, Quantity		Variable Speed Axial x 4		
	Starting Method		Inverter		
	Motor Output	kW	0.92 x 4		
	External Static Pressure	Pa	20		
PROTECTION	High Pressure Protection		High Pres. Sensor and High Pres. Switch at 4.15MPa (601psi)		
	Inverter Circuit		Over-heat protection, Over-current protection		
	Compressor		Over-heat protection		
REFRIGERANT R32 (GWP 677) (AS PER AR5)	Full Charge	kg	11.5 x 4 Circuits (46 total)		
	CO_2 Equivalent	t	31.1		
	Control		LEV (Linear Expansion Valve)		

Pump not included in e-Series units.
Due to continuous improvement, the above specifications may be subject to change without notice.

(1) Under normal cooling conditions at outdoor temp 35°CDB/24°CWB. Outlet water temp 7°C, inlet water temp 12°C . Pump input not included.

(2) Under normal cooling conditions at outdoor temp 35°CDB/24°CWB. Outlet water temp 7°C, inlet water temp 12°C . Pump input included, per EN14511.

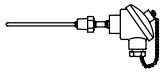
(3) Under normal heating conditions at outdoor temp 7°CDB/6°CWB. Outlet water temp 45°C, inlet water temp 40°C.Pump input not included.

(4) Under normal heating conditions at outdoor temp 7°CDB/6°CWB. Outlet water temp 45°C, inlet water temp 40°C.Pump input included, per EN14511.

(5) Calculations in accordance with AHRI 551-591.

Specifications

Optional Parts

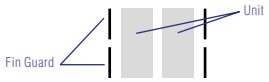
DESCRIPTION	IMAGE	MODEL NAME	REMARKS
Piping Kit		EC-01HK*7	For inside header type modules
Connection Piping Kit		EC-02HK*7	For inside header type modules. 270mm clearance between modules*8
Extension Piping Kit		EC-03HK*7	For inside header type modules. 796mm clearance between modules*8 (both EC-02HK and EC-03HK required)
Fin Guard		EC-130FG	For standard pipe type and inside header type modules*9
Water Temperature Sensor		TW-TH16-E	For groups of 2 or more modules, and for systems of 2 or more groups

(7) EC-01HK, EC-02HK and EC-03HK contain panels and bolts together with the items shown. (Please refer to the instruction manual for details.)
(8) Measured between opposing lifting brackets.
(9) Diagram to the right.

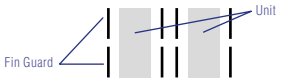
(9) FIN GUARD SET

One set contains 4 fin guards. Please refer to the following installation examples

Installation only on the outside



Installation on the outside and inside



NOTE: Two sets are requried.

For more information please visit our website or call our Applied Products Sales Team.
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