

1. Specifications

Model			EAHV-M1500YCL(-NJ(-BS)
Power source			3-phase 4-wire 380-400-415V 50/60Hz
Cooling capacity *1		kW	150.00
		kcal/h	129,000
		BTU/h	511,800
	Power input	kW	44.73
	EER		3.35
	IPLV *6		6.42
Cooling capacity (EN14511) *2	Water flow rate	m³/h	25.8
		kW	149.18
		kcal/h	128,295
		BTU/h	509,002
	Power input	kW	45.55
	EER		3.28
Heating capacity *3	SEER		5.52
	nsc	%	217.8
	Water flow rate	m³/h	25.8
		kW	150.00
		kcal/h	129,000
		BTU/h	511,800
Heating capacity (EN14511) *4	Power input	kW	42.61
	COP		3.52
	Water flow rate	m³/h	25.8
		kW	150.82
		kcal/h	129,705
		BTU/h	514,598
Current input	Power input	kW	43.43
	COP		3.47
	SCOP Low/Medium *8		3.31/2.88
	nsh Low/Medium	%	129.0/112.0
	Water flow rate	m³/h	25.8
	Cooling current 380-400-415V *1	A	76 - 72 - 69
Water pressure drop *1	Heating current 380-400-415V *3	A	72 - 68 - 66
	Maximum current	A	120
	Standard piping	kPa	56
Temp range	Inside header piping	kPa	134
	Cooling	°C	Outlet water 4~30 *7
		°F	Outlet water 39.2~86 *7
	Heating	°C	Outlet water 24~55 *7
		°F	Outlet water 75~131 *7
	Outdoor (Cooling)	°C	-15~52 *7
Circulating water volume range		°F	5~125.6 *7
	Outdoor (Heating)	°C	-20~43 *7
		°F	-4~109.4 *7
	Sound pressure level (measured in anechoic room) at 1m *1 *8	m³/h	12.9~45.0
	Sound power level (measured in anechoic room) *1	dB (A)	65
		dB (A)	83
Diameter of water pipe (Standard piping)	Inlet	mm (in)	65A (2 1/2B) housing type joint
	Outlet	mm (in)	65A (2 1/2B) housing type joint
Diameter of water pipe (Inside header piping)	Inlet	mm (in)	150A (6B) housing type joint
	Outlet	mm (in)	150A (6B) housing type joint
External finish			Polyester powder coating steel plate
External dimension H × W × D			2350 × 3400 × 1080
Net weight	Standard piping	kg (lbs)	1280 (2822)
	Inside header piping	kg (lbs)	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		Inverter scroll hermetic compressor
	Maker		MITSUBISHI ELECTRIC CORPORATION
	Starting method		Inverter
	Quantity		4
	Motor output	kW	11.5 × 4
	Lubricant		MEL46EH
Fan	Air flow rate	m³/min	270 × 4
		L/s	4500 × 4
		cfm	9534 × 4
	Type, Quantity		Propeller fan × 4
	Starting method		Inverter
	Motor output	kW	0.92 × 4
Protection	External static pressure	Pa	20
	High pressure protection		High pressure sensor & High pressure switch at 4.15MPa (601psi)
	Inverter circuit		Over-heat protection, Over current protection
Refrigerant	Compressor		Over-heat protection
	Type × charge		R32 × 11.5 (kg) × 4 *5
	Control		LEV

Notes:

- *1 Under normal cooling conditions at outdoor temp 35°CDB/24°CWB (95°FDB / 75.2°FWB) outlet water temp 7°C (44.6°F) inlet water temp 12°C (53.6°F). Pump input is not included in cooling capacity and power input.
- *2 Under normal cooling conditions at outdoor temp 35°CDB/24°CWB (95°FDB/75.2°FWB) outlet water temp 7°C (44.6°F) inlet water temp 12°C (53.6°F). Pump input is included in cooling capacity and power input based on EN14511.
- *3 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.
- *4 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 included in heating capacity and power input based on EN14511.
- *5 Amount of factory-charged refrigerant is 2.95 (kg) × 4. Please add the refrigerant at the field.
- *6 IPLV is calculated in accordance with AHRI 551-591.
- *Please don't use the steel material for the water piping.
- *Please always make water circulate, or pull the circulation water out completely when not in use.
- *Please do not use groundwater or well water in direct.
- *The water circuit must be closed circuit.
- *Due to continuous improvement, the above specifications may be subject to change without notice.
- *This model doesn't equip with a pump.
- *7 Please refer to 7-6. Operation temperature range.
- *8 This value is not certified by Eurovent.

Unit converter

kcal/h	= kW × 860
BTU/h	= kW × 3,412
lbs	= kg/0.4536
cfm	= m ³ /min × 35.31

1. Specifications

Model		EAHV-M1800YCL(-N)(-BS)	
Power source		3-phase 4-wire 380-400-415V 50/60Hz	
Cooling capacity *1		kW	180.00
		kcal/h	154,800
		BTU/h	614,160
	Power input	kW	57.02
	EER		3.16
	IPLV *6		6.31
Cooling capacity (EN14511) *2	Water flow rate	m ³ /h	31.0
		kW	178.80
		kcal/h	153,768
		BTU/h	610,066
	Power input	kW	58.22
	EER		3.07
Heating capacity *3	SEER		5.36
	ηsc	%	211.4
	Water flow rate	m ³ /h	31.0
		kW	180.00
		kcal/h	154,800
		BTU/h	614,160
Heating capacity (EN14511) *4	Power input	kW	53.09
	COP		3.39
	Water flow rate	m ³ /h	31.0
		kW	181.20
		kcal/h	155,832
		BTU/h	618,254
Current input	Power input	kW	54.29
	COP		3.34
	SCOP Low/Medium *8		3.31/2.88
	ηsh Low/Medium	%	129.0/112.0
	Water flow rate	m ³ /h	31.0
	Cooling current 380-400-415V *1	A	96 - 91 - 88
Water pressure drop *1	Heating current 380-400-415V *3	A	90 - 85 - 82
	Maximum current	A	120
	Standard piping	kPa	79
Temp range	Inside header piping	kPa	190
	Cooling	°C	Outlet water 4~30 *7
		°F	Outlet water 39.2~86 *7
	Heating	°C	Outlet water 24~55 *7
		°F	Outlet water 75~131 *7
	Outdoor (Cooling)	°C	-15~52 *7
Circulating water volume range		°F	5~125.6 *7
	Outdoor (Heating)	°C	-20~43 *7
		°F	-4~109.4 *7
		m ³ /h	12.9~45.0
	Sound pressure level (measured in anechoic room) at 1m *1 *8	dB (A)	67
	Sound power level (measured in anechoic room) *1	dB (A)	85
Diameter of water pipe (Standard piping)	Inlet	mm (in)	65A (2 1/2B) housing type joint
	Outlet	mm (in)	65A (2 1/2B) housing type joint
Diameter of water pipe (Inside header piping)	Inlet	mm (in)	150A (6B) housing type joint
	Outlet	mm (in)	150A (6B) housing type joint
External finish		Polyester powder coating steel plate	
External dimension H × W × D		mm	
Net weight		2350 × 3400 × 1080	
	Standard piping	kg (lbs)	1280 (2822)
Design pressure	Inside header piping	kg (lbs)	1307 (2881)
	R32	MPa	4.15
Heat exchanger	Water	MPa	1.0
	Water side	Stainless steel plate and copper brazing	
Compressor	Air side	Salt-resistant cross fin & aluminium tube	
	Type	Inverter scroll hermetic compressor	
	Maker	MITSUBISHI ELECTRIC CORPORATION	
	Starting method	Inverter	
	Quantity	4	
	Motor output	kW	11.5 × 4
Fan	Lubricant	MEL46EH	
	Air flow rate	m ³ /min	270 × 4
		L/s	4500 × 4
		cfm	9534 × 4
	Type, Quantity	Propeller fan × 4	
	Starting method	Inverter	
Protection	Motor output	kW	0.92 × 4
	External static pressure	Pa	20
	High pressure protection	High pressure sensor & High pressure switch at 4.15MPa (601psi)	
	Inverter circuit	Over-heat protection, Over current protection	
Refrigerant	Compressor	Over-heat protection	
	Type × charge	R32 × 11.5 (kg) × 4 *5	
	Control	LEV	

Notes:		Unit converter
*1 Under normal cooling conditions at outdoor temp 35°CDB/24°CWB (95°FDB / 75.2°FWB) outlet water temp 7°C (44.6°F) inlet water temp 12°C (53.6°F). Pump input is not included in cooling capacity and power input.		kcal/h = kW × 860
*2 Under normal cooling conditions at outdoor temp 35°CDB/24°CWB (95°FDB/75.2°FWB) outlet water temp 7°C (44.6°F) inlet water temp 12°C (53.6°F). Pump input is included in cooling capacity and power input based on EN14511.		BTU/h = kW × 3,412
*3 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.		lbs = kg/0.4536
*4 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 included in heating capacity and power input based on EN14511.		cfm = m ³ /min × 35.31
*5 Amount of factory-charged refrigerant is 2.95 (kg) × 4. Please add the refrigerant at the field.		
*6 IPLV is calculated in accordance with AHRI 551-591.		
*Please don't use the steel material for the water piping.		
*Please always make water circulate, or pull the circulation water out completely when not in use.		
*Please do not use groundwater or well water in direct.		
*The water circuit must be closed circuit.		
*Due to continuous improvement, the above specifications may be subject to change without notice.		
*This model doesn't equip with a pump.		
*7 Please refer to 7-6. Operation temperature range.		
*8 This value is not certified by Eurovent.		

1. Specifications

Model		EAHV-M2000YCL(-N)(-BS)	
Power source		3-phase 4-wire 380-400-415V 50/60Hz	
Cooling capacity *1		kW	200.00
		kcal/h	172,000
		BTU/h	682,400
	Power input	kW	66.66
	EER		3.00
	IPLV *6		6.19
Cooling capacity (EN14511) *2	Water flow rate	m ³ /h	34.4
		kW	198.45
		kcal/h	170,667
		BTU/h	677,111
	Power input	kW	68.21
	EER		2.91
Heating capacity *3	SEER		5.18
	ηsc	%	204.2
	Water flow rate	m ³ /h	34.4
		kW	200.00
		kcal/h	172,000
		BTU/h	682,400
Heating capacity (EN14511) *4	Power input	kW	60.60
	COP		3.30
	Water flow rate	m ³ /h	34.4
		kW	201.55
		kcal/h	173,333
		BTU/h	687,689
Current input	Power input	kW	62.15
	COP		3.24
	SCOP Low/Medium *8		3.45 / 2.85
	ηsh Low/Medium	%	135.0 / 110.0
	Water flow rate	m ³ /h	34.4
	Cooling current 380-400-415V *1	A	113 - 107 - 103
Water pressure drop *1	Heating current 380-400-415V *3	A	102 - 97 - 94
	Maximum current	A	135
	Standard piping	kPa	96
Temp range	Inside header piping	kPa	231
	Cooling	°C	Outlet water 4~30 *7
		°F	Outlet water 39.2~86 *7
	Heating	°C	Outlet water 24~55 *7
		°F	Outlet water 75~131 *7
	Outdoor (Cooling)	°C	-15~52 *7
Circulating water volume range		°F	5~125.6 *7
	Outdoor (Heating)	°C	-20~43 *7
		°F	-4~109.4 *7
		m ³ /h	12.9~45.0
	Sound pressure level (measured in anechoic room) at 1m *1 *8	dB (A)	69
	Sound power level (measured in anechoic room) *1	dB (A)	87
Diameter of water pipe (Standard piping)	Inlet	mm (in)	65A (2 1/2B) housing type joint
	Outlet	mm (in)	65A (2 1/2B) housing type joint
Diameter of water pipe (Inside header piping)	Inlet	mm (in)	150A (6B) housing type joint
	Outlet	mm (in)	150A (6B) housing type joint
External finish		Polyester powder coating steel plate	
External dimension H × W × D		mm	
Net weight		2350 × 3400 × 1080	
	Standard piping	kg (lbs)	1280 (2822)
Design pressure	Inside header piping	kg (lbs)	1307 (2881)
	R32	MPa	4.15
Heat exchanger	Water	MPa	1.0
	Water side	Stainless steel plate and copper brazing	
Compressor	Air side	Salt-resistant cross fin & aluminium tube	
	Type	Inverter scroll hermetic compressor	
	Maker	MITSUBISHI ELECTRIC CORPORATION	
	Starting method	Inverter	
	Quantity	4	
	Motor output	kW	13.9 × 4
Fan	Lubricant	MEL46EH	
	Air flow rate	m ³ /min	270 × 4
		L/s	4500 × 4
		cfm	9534 × 4
	Type, Quantity	Propeller fan × 4	
	Starting method	Inverter	
Protection	Motor output	kW	0.92 × 4
	External static pressure	Pa	20
	High pressure protection	High pressure sensor & High pressure switch at 4.15MPa (601psi)	
	Inverter circuit	Over-heat protection, Over current protection	
Refrigerant	Compressor	Over-heat protection	
	Type × charge	R32 × 11.5 (kg) × 4 *5	
	Control	LEV	

Notes:

- *1 Under normal cooling conditions at outdoor temp 35°CDB/24°CWDB (95°FDB / 75.2°FWB) outlet water temp 7°C (44.6°F) inlet water temp 12°C (53.6°F). Pump input is not included in cooling capacity and power input.
- *2 Under normal cooling conditions at outdoor temp 35°CDB/24°CWDB (95°FDB/75.2°FWB) outlet water temp 7°C (44.6°F) inlet water temp 12°C (53.6°F). Pump input is included in cooling capacity and power input based on EN14511.
- *3 Under normal heating conditions at outdoor temp 7°CDB/6°CWDB (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.
- *4 Under normal heating conditions at outdoor temp 7°CDB/6°CWDB (44.6°FDB/42.8°FWB) outlet water temp 45°C (113°F) inlet water temp 40°C (104°F). Pump input is included in heating capacity and power input based on EN14511.
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Unit converter

kcal/h	= kW × 860
BTU/h	= kW × 3,412
lbs	= kg/0.4536
cfm	= m ³ /min × 35.31