1. Product 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
	Water flow rate	m^3/h	31.0
Cooling capacity (EN14511) *2		kW	178.80
		kcal/h	153,768
		BTU/h	610,066
	Power input	kW	58.22
	EER		3.07
	Eurovent efficiency class		B
	SEER		5.36
	ηsc	%	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		3.39
	Water flow rate	m^3/h	31.0
Heating capacity (EN14511) *4		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
	ηsh Low/Medium	%	129.0/112.0
	Water flow rate	m^3/h	31.0
Current input	Cooling current 380-400-415V *1	A	96 - 91 - 88
	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
		°F	Outlet water 39.2~86 *7
	Heating	°C	Outlet water 25~55 *7
		°F	Outlet water 77~131 *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 range		m^3/h	12.9~43.0
Sound pressure level (measured in anechoic room) at 1m *1		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	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	m^3/min	270 × 4
		L/s	4500 × 4
		cfm	9534 × 4
	Type, Quantity		Propeller fan × 4
	Starting method		Inverter
	Motor output	kW	0.92 × 4
	External static press.	Pa	20
Protection	High pressure protection		High pres.Sensor & High pres.Switch at 4.15MPa (601psi)
	Inverter circuit		Over-heat protection, Over current protection
	Compressor		Over-heat protection
Refrigerant	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 3 (kg) × 4. Please add the refrigerant at the field.
*6 IPLV is calculated in accordance with AHRI 550-590.
*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 2-1-6. Operation temperature range.

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