1-1. Specifications

Model			ERCV-M900YA		
Model Capacity change mode Power source			Capacity priority Efficiency priority 3-phase 4-wire 380-400-415V 50/60Hz		
					Cooling capacity *1
Sooning capacity 1		kca l /h	77,400	38,700	
		BTU/h	307,080	153,540	
ļ	Power input	kW	17,47	8.22	
	EER	NVV	5.15	5.47	
	IPLV *5			5.47	
		m ³ /h	8.18	7.7	
	Evaporation side water flow rate		15.5		
0 1 (51) (51)	Condensation side water flow rate	m³/h	17.9	8.9	
Cooling capacity (EN14511) *2		kW	89.83	44.95	
		kcal/h	77,254	38,657	
		BTU/h	306,500	153,369	
	Power input	kW	17.80	8.31	
	EER		5.05	5.41	
	SEER		7.66	-	
	ηsc	%	303.4	-	
	Evaporation side water flow rate	m ³ /h	15.5	7.7	
	Condensation side water flow rate	m ³ /h	17,9	8.9	
Heating capacity *3		kW	90.00	45.00	
realing capacity c		kcal/h	77,400	38,700	
		BTU/h	307,080	153,540	
1	Power input	kW	19,07	9,40	
	COP	L V V V			
		3.0	4.72	4.79	
	Condensation side water flow rate	m ³ /h	15.5	7.7	
	Evaporation side water flow rate	m³/h	21.5	10.7	
Heating capacity (EN14511) *4		kW	90.12	45.03	
		kca l /h	77,503	38,726	
		BTU/h	307,489	153,642	
	Power input	kW	19.53	9.52	
	COP		4.61	4.73	
	SCOP Low/Medium		7.10/4.86	-	
	ηsh Low/Medium	%	281.0/191.0	-	
	Condensation side water flow rate	m ³ /h	15.5	7.7	
	Evaporation side water flow rate	m³/h	21.5	10.7	
Current input	Cooling current 380-400-415V *1	Α	29 - 27 - 26	13 - 13 - 12	
Water pressure drop *1		A	31 - 30 - 29	15 - 15 - 14	
	Heating current 380-400-415V *3				
	Maximum current	Α		60 I -	
	Evaporation side	kPa	10	3	
	Condensation side	kPa	7	2	
Temperature range (Cooling) *7	Evaporation side water outlet °C		4~30		
	°F		39~86		
	Condensation side water inlet	°C	9~	-50	
		°F	48~	122	
Temperature range (Heating) *7	Condensation side water outlet	°C	20~60 *6	20~55	
		°F	68~140	68~131	
	Evaporation side water inlet	°C	9~		
	'	°F	48~95		
Circulating water volume range	Evaporation side	m ³ /h	7.7~25.8		
Sireajaming mater rejame range	Condensation side *8	m³/h		30.0	
Sound pressure level (measured		dB (A)	53	48	
Sound pressure level (measured in a		dB (A)	72	48 66	
	•				
Diameter of water pipe	Inlet	mm (in)	65A (2 1/2B) housing type joint		
Cooling exchanger side)	Outlet	mm (in)	65A (2 1/2B) housing type joint		
Diameter of water pipe	Inlet	mm (in)	65A (2 1/2B) housing type joint		
Heating exchanger side)	Outlet	mm (in)	65A (2 1/2B) housing type joint		
xternal finish				coating steel plate	
External dimension H × W × D mm			918 × 780 × 1350		
Net weight		kg (lbs)	430 (948)		
Design pressure	R32	MPa	4.15		
	Water	MPa	1.0		
			Stainless steel plate and copper brazing		
leat exchanger	Evaporation side		Stainless steel plate and copper brazing		
leat exchanger	Evaporation side Condensation side		Inverter scroll hermetic compressor		
	Condensation side				
	Condensation side Type		Inverter scroll her	metic compressor	
	Condensation side Type Maker		Inverter scroll her MITSUBISHI ELECT	metic compressor RIC CORPORATION	
	Condensation side Type Maker Starting method		Inverter scroll her MITSUBISHI ELECT Inve	metic compressor RIC CORPORATION erter	
	Condensation side Type Maker Starting method Quantity		Inverter scroll her MITSUBISHI ELECT Inve	metic compressor RIC CORPORATION erter 2	
	Condensation side Type Maker Starting method Quantity Motor output	kW	Inverter scroll her MITSUBISHI ELECT Inve 8,3	metic compressor RIC CORPORATION enter 2 × 2	
Compressor	Condensation side Type Maker Starting method Quantity Motor output Lubricant	kW	Inverter scroll her MITSUBISHI ELECT Inve 8,3 MEL	metic compressor RIC CORPORATION erter 2 × 2 46EH	
Compressor	Condensation side Type Maker Starting method Quantity Motor output Lubricant High pressure protection	kW	Inverter scroll her MITSUBISHI ELECT Inverter 8.3 MEL High pressure Switch	metic compressor RIC CORPORATION enter 2 × 2 46EH 1 at 4.15MPa (601psi)	
Compressor	Condensation side Type Maker Starting method Quantity Motor output Lubricant	kW	Inverter scroll her MITSUBISHI ELECT Inverter 8.3 MEL High pressure Switch	metic compressor RIC CORPORATION erter 2 × 2 46EH	
Heat exchanger Compressor Protection	Condensation side Type Maker Starting method Quantity Motor output Lubricant High pressure protection	kW	Inverter scroll her MITSUBISHI ELECT Inve 8.3 MEL High pressure Switch Over-heat protection,	metic compressor RIC CORPORATION enter 2 × 2 46EH 1 at 4.15MPa (601psi)	
Compressor	Condensation side Type Maker Starting method Quantity Motor output Lubricant High pressure protection Inverter circuit	kW	Inverter scroll her MITSUBISHI ELECT Inve 8,3 MEL High pressure Switch Over-heat protection, Over-heat	metic compressor RIC CORPORATION erter 2	

Notes:

- Notes:

 *1 Under normal cooling conditions at evaporation side water inlet temp 12°C (53.6°F) outlet temp 7°C (44.6°F) condensation side water inlet temp 30°C (86°F) outlet temp 35°C (95°F). Pump input is not included in cooling capacity and power input.

 *2 Under normal cooling conditions at evaporation side water inlet temp 12°C (53.6°F) outlet temp 7°C (44.6°F) condensation side water inlet temp 30°C (86°F) outlet temp 35°C (95°F). Pump input is included in cooling capacity and power input based on EN14511.

 *3 Under normal heating conditions at conditions at condensation side water inlet temp 40°C (103°F) outlet temp 45°C (113°F) evaporation side water inlet temp 10°C (50°F) outlet temp 7°C (44.6°F). Pump input is not included in cooling capacity and power input.

 *4 Under normal heating conditions at condensation side water inlet temp 40°C (104°F) outlet temp 45°C (113°F) evaporation side water inlet temp 10°C (50°F) outlet temp 7°C (44.6°F). Pump input is included in cooling capacity and power input based on EN14511.

 *5 PLV is calculated in accordance with AHRI 551-591.

 *6 When using in condensation side water outlet is more than 55°C (131°F), please adjust the condensation inlet water temperature to 50°C (122°F) or less.

 *7 Please for to 2-1-5 Operation temperature range.

 *Please do not use fine steel material for the water piping.

 *Please advays 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

 *8 Set the minimum water flow rate on the condensation side water to 8.0m³/h when the evaporation side water inlet temperature during operation is 15°C (59°F) or higher.

1. Product Specifications

86			EDOV/M	2002/4 2	
Model Capacity change mode				900YA × 2	
Power source			Capacity priority Efficiency priority 3-phase 4-wire 380-400-415V 50/60Hz		
Cooling capacity *1		kW	180.00	90.00	
Cooling Capacity		kca l/ h	154,800	77,400	
		BTU/h	614,160	307,080	
	Power input	kW	33.07	15.24	
	EER	KVV	5.44	5.91	
	Evaporation side water flow rate	m ³ /h	31.0	15.5	
		m ³ /h	35.9	17.5	
Caslina assasity (ENIAFAA) *2	Condensation side water flow rate	kW			
Cooling capacity (EN14511) *2			178.71	89.66	
		kca l/ h BTU <i>l</i> h	153,691	77,108	
	Power input		609,759	305,920	
		kW	<u>35.54</u>	15.87	
	EER	3	5.03	5.65	
	Evaporation side water flow rate	m ³ /h	31.0	15.5	
11 11 11 11	Condensation side water flow rate	m ³ /h	35.9	17.5	
Heating capacity *3		kW	180.00	90.00	
		kca l /h	154,800	77,400	
	D	BTU/h	614,160	307,080	
	Power input	kW	37.22	18.39	
	COP	- 3	4.84	4.89	
	Condensation side water flow rate	m ³ /h	31.0	15.5	
	Evaporation side water flow rate	m ³ /h	42.7	21.7	
Heating capacity (EN14511) *4		kW	180.87	90.23	
		kca l/ h	155,548	77,598	
		BTU/h	617,128	307,865	
	Power input	kW	40.90	19.26	
	COP		4.42	4.68	
	Condensation side water flow rate	m ³ /h	31.0	15.5	
	Evaporation side water flow rate	m ³ /h	42.7	21.7	
Current input	Cooling current 380-400-415V *1	A	54 - 51 - 49	25 - 24 - 23	
	Heating current 380-400-415V *3	Α	61 - 58 - 56	30 - 29 - 28	
	Maximum current	Α	1;	20	
Water pressure drop *1	Evaporation side	kPa	85	25	
· ·	Condensation side	kPa	66	18	
Temperature range (Cooling) *5	Evaporation side water outlet	°C	40	~30	
		°F	39~86		
	Condensation side water inlet °C		9~50		
		°F	48~122		
Temperature range (Heating) *5	Condensation side water outlet	°C	20~55		
	°F		68~131		
	Evaporation side water inlet	°C	9~35 48~95		
	·	°F			
Circulating water volume range	Evaporation side	m ³ /h	15.4~50.0		
ů ů	Condensation side *6	m ³ /h	9.0~50.0		
Sound pressure level (measured		dB (A)	56	51	
Sound power level (measured in		dB (A)	75	69	
Diameter of water pipe	Inlet	mm (in)			
(Cooling exchanger side)	Outlet	mm (in)	65A (2 1/2B) housing type joint 65A (2 1/2B) housing type joint		
Diameter of water pipe	Inlet	mm (in)	65A (2 1/2B) housing type joint		
(Heating exchanger side)	Outlet	mm (in)	65A (2 1/2B) housing type joint		
External finish	Cutjot	1 ()	Polyester powder coating steel plate		
External dimension H × W × D		mm	1836 × 780 × 1350		
Net weight		kg (lbs)	863 (1903)		
Design pressure	R32	MPa	4,15		
Design pressure	Water	MPa	1,0		
Heat exchanger	Evaporation side	jivii d	Stainless steel plate and copper brazing		
neat exchanger	Condensation side		Stainless steel plate and copper brazing Stainless steel plate and copper brazing		
Compressor	Туре		Inverter scroll hermetic compressor		
	Maker Starting method		MITSUBISHI ELECTRIC CORPORATION		
	Starting method		Inverter 4		
	Quantity		4		
	Motor output	kW	8.3 × 4		
	Lubricant			46EH	
	High pressure protection		High pressure Switch at 4.15MPa (601psi)		
Protection					
Protection	Inverter circuit		Over-heat protection,	Over current protection	
	Inverter circuit Compressor		Over-heat protection, Over-heat	protection	
Protection Refrigerant	Inverter circuit		Over-heat protection, Over-heat R32 × 5.		

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