Specifications

Model Capacity change mode			ERCV-M900YA		
			Capacity priority	Capacity priority Efficiency priority	
Power source			3-phase 4-wire 380	-400-415V 50/60Hz	
Cooling capacity *1		kW	90.00	45.00	
		kcal/h	77,400	38,700	
		BTU/h	307,080	153,540	
	Power input	kW	17.47	8.22	
	EER		5.15	5.47	
	IPLV *5 Evaporation side water flow rate	m³/h	8.18 15.5	7.7	
	Condensation side water flow rate	m³/h	17.9	8.9	
Cooling capacity (EN14511) *2	Condensation side water now rate	kW	89.83	44.95	
beoming supusity (E1114011) 2		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	-	
	ηςς	%	303.4	_	
	Evaporation side water flow rate	m³/h	15.5	7.7	
	Condensation side water flow rate	m³/h	17.9	8.9	
leating capacity *3		kW	90.00	45.00	
		kcal/h	77,400	38,700	
	Davies innut	BTU/h	307,080	153,540	
	Power input COP	kW	19.07	9.40	
		m³/h	4.72	4.79	
	Condensation side water flow rate	m³/h	15.5 21.5	7.7 10.7	
Heating capacity (EN14511) *4	Evaporation side water flow rate	kW	90.12	45.03	
Heating capacity (EN14511) "4		kcal/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	_	
	nsh Low/Medium	%	281.0/191.0	_	
	Condensation side water flow rate	m³/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	
	Heating current 380-400-415V *3	Α	31 - 30 - 29	15 - 15 - 14	
	Maximum current	A		0	
Nater pressure drop *1	Evaporation side	kPa	10	3	
	Condensation side	kPa	7	2	
Temperarure range (Cooling) *7	Evaporation side water outlet	°C	4~30		
	Condensation side water inlet	°C		50	
Temperarure range (Heating)	Condensation side water outlet	°C	20~60 *6	20~55	
	Evaporation side water inlet	m³/h		25.8	
Circulating water volume range	Evaporation side Condensation side	m³/h		25.6 0.0 *10	
Cound proceure level (measured		dB (A)	53	48	
Sound pressure level (measured in anechoic room) at 1m *1 Sound power level (measured in anechoic room) *1		dB (A)	72	66	
Diameter of water pipe	Inlet	mm (in)		pusing type joint	
(Cooling exchanger side)	Outlet	mm (in)		busing type joint	
Diameter of water pipe	Inlet	mm (in)		pusing type joint	
Heating exchanger side)	Outlet	mm (in)		ousing type joint	
External finish			Polyester powder	Polyester powder coating steel plate	
External dimension HxWxD		mm	918 x 78	0 x 1350	
et weight		kg (lbs)	430 (948)		
Design pressure Heat exchanger	R32	MPa	4.15		
	Water	MPa	1.0		
	Evaporation side		Stainless steel plate and copper brazing		
	Condensation side		Stainless steel plate and copper brazing		
Compressor	Туре		Inverter scroll hermetic compressor		
	Maker		MITSUBISHI ELECTRIC CORPORATION		
	Starting method		Inverter		
	Quantity		2		
	Motor output kW		8.3 x 2		
Protection	Lubricant			MEL46EH	
Protection	High pressure protection		High pressure Switch at 4.15MPa (601psi)		
	Inverter circuit		Over-heat protection, Over current protection Over-heat protection		
Refrigerant	Compressor Type x charge		Over-heat		

^{*1} Under normal cooling conditions at evaporation side water inlet temp 12°C outlet temp 7°C

 $codensation \ side \ water in let \ temp\ 30^{\circ}C\ outlet \ temp\ 35^{\circ}C.\ Pump\ input\ is\ not\ included\ in\ cooling\ capacity\ and\ power\ input.$

condensation side water inlet temp 30°C outlet temp 35°C. Pump input is included in cooling capacity and power input based on EN14511.
*3 Under normal heating conditions at condensation side water inlet temp 40°C outlet temp 45°C

*4 Under normal heating conditions at condensation side water inlet temp 40°C outlet temp 45°C

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

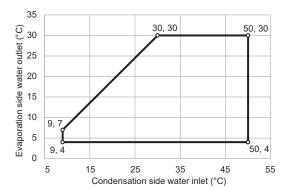
- Please don't use the steel material for the water piping.
 Please always make water circulate, or pull the circulation water out completely when not in use.
- Please do not use groundwater or well water in direct.
- The water circuit must be closed circuit.
- Due to continuous improvement, the above specifications may be subject to change without notice.
- This model doesn't equip with a pump.

^{*2} Under normal cooling conditions at evaporation side water inlet temp 12°C outlet temp 7°C

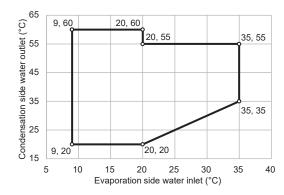
evaporation side water inlet temp 10°C outlet temp 7°C. Pump input is not included in cooling capacity and power input.

 $evaporation\ side\ water\ inlet\ temp\ 10^{\circ}C\ outlet\ temp\ 7^{\circ}C.\ Pump\ input\ is\ included\ in\ cooling\ capacity\ and\ power\ input\ based\ on\ EN14511.$ *5 IPLV is calculated in accordance with AHRI 551-591.

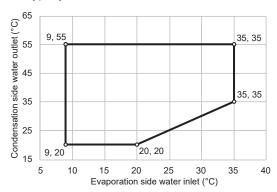
*7 Capacity priority/Efficiency priority



*8 Capacity priority



*9 Efficiency priority



^{*10} 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 or higher.

Model			ERCV-M900YA×2		
Capacity change mode			Capacity priority Efficiency priority		
Power source				1-400-415V 50/60Hz	
Cooling capacity *1		kW	180.00	90.00	
3 1 7		kcal/h	154,800	77,400	
		BTU/h	614,160	307,080	
	Power input	kW	33.07	15.24	
	EER		5.44	5.91	
	Evaporation side water flow rate	m³/h	31.0	15.5	
	Condensation side water flow rate	m³/h	35.9	17.5	
Cooling capacity (EN14511) *2		kW	178.71	89.66	
		kcal/h	153,691	77,108	
		BTU/h	609,759	305,920	
	Power input	kW	35.54	15.87	
	EER		5.03	5.65	
	Evaporation side water flow rate	m³/h	31.0	15.5	
	Condensation side water flow rate	m³/h	35.9	17.5	
Heating capacity *3		kW	180.00	90.00	
		kcal/h	154,800	77,400	
		BTU/h	614,160	307,080	
	Power input	kW	37.22	18.39	
	COP	3 n	4.84	4.89	
	Condensation side water flow rate	m³/h	31.0	15.5	
11	Evaporation side water flow rate	m³/h	42.7	21.7	
Heating capacity (EN14511) *4		kW	180.87	90.23	
		kcal/h	155,548	77,598	
	D	BTU/h	617,128	307,865	
	Power input COP	kW	40.90	19.26	
		3 n.	4.42	4.68	
	Condensation side water flow rate	m³/h	31.0	15.5	
O	Evaporation side water flow rate	m³/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	A	61 - 58 - 56	30 - 29 - 28 20	
Water pressure drop *1	Maximum current Evaporation side	A kPa	85	25	
water pressure drop 1	Condensation side	kPa	66	18	
Temperature range (Cooling) *5	Evaporation side water outlet	°C			
remperature range (Cooling) 5	Condensation side water outlet	°C	4~30 9~50		
Temperature range (Heating) *6	Condensation side water inlet	°C		~55	
remperature range (rieating) o	Evaporation side water inlet	°C		-35 -35	
Circulating water volume range	Evaporation side	m³/h		~50.0	
Orlowiding water volume range	Condensation side	m³/h		50.0 *7	
Sound pressure level (measured		dB (A)	56	51	
Sound power level (measured in		dB (A)	75	69	
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	
External finish	•		Polyester powder coating steel plate		
External dimension HxWxD		mm	1836 x 780 x 1350		
Net weight		kg (lbs)		1903)	
Design pressure	R32	MPa	4.	15	
	Water	MPa	1.0		
Heat exchanger	Evaporation side		Stainless steel plate and copper brazing		
	Condensation side		Stainless steel plate and copper brazing		
Compressor	Туре		Inverter scroll hermetic compressor		
	Maker		MITSUBISHI ELECTRIC CORPORATION		
	Starting method		Inverter		
	Quantity		4		
	Motor output kW		8.3 x 4		
	Lubricant		MEL46EH		
Protection	High pressure protection		High pressure Switch at 4.15MPa (601psi)		
	Inverter circuit		Over-heat protection, Over current protection		
	Compressor		Over-heat protection		
Refrigerant	Type x charge		R32 x 5.2 (kg) x 4		
	Control		LEV		

^{*1} Under normal cooling conditions at evaporation side water inlet temp 12°C outlet temp 7°C

codensation side water inlet temp 30°C outlet temp 35°C. Pump input is not included in cooling capacity and power input. *2 Under normal cooling conditions at evaporation side water inlet temp 12°C outlet temp 7°C

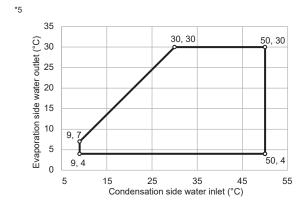
evaporation side water inlet temp 10°C outlet temp 7°C. Pump input is not included in cooling capacity and power input. *4 Under normal heating conditions at condensation side water inlet temp 40°C outlet temp 45°C

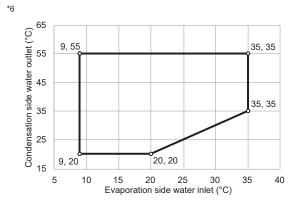
evaporation side water inlet temp 10°C outlet temp 7°C. Pump input is included in cooling capacity and power input based on EN14511.

- Please don't use the steel material for the water piping.
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- This model doesn't equip with a pump.

 $condensation\ side\ water\ inlet\ temp\ 30^{\circ}C\ outlet\ temp\ 35^{\circ}C.\ Pump\ input\ is\ included\ in\ cooling\ capacity\ and\ power\ input\ based\ on\ EN14511.$

 $^{^{\}star}3$ Under normal heating conditions at condensation side water inlet temp 40°C outlet temp 45°C





^{*7} Set the minimum water flow rate on the condensation side water to 16.0m³/h when the evaporation side water inlet temperature during operation is 15°C or higher.