Technical specifications COOLING ONLY MODEL

MODEL			SET	EACV-P900YAL(-N)(-BS) EACV-P900YAF(-N)(-BS)			
Power source				3-phase 4-wire 380-	400-415V 50/60Hz		
Capacity change mode				Capacity priority	COP priority		
Cooling capacity *1 Water			kW	90.00	63.00		
			kcal/h	77,400	54,180		
			BTU/h	307,080	214,956		
	Power input *2		kW	27.27	16.27		
	Current input 380-400-415V		A	46.0 - 43.7 - 42.2	27.5 - 26.1 - 25.2		
	Pump input is not FFR			3.30	3.87		
	included Certified value by	ESEER		5.66	-		
		EER *3		3.08	3 76		
		ESEER *3 *4		4 71	-		
	ESEER (Includes numn input based on EN1451			5.46			
	SEER (Includes pump input based on EN14511) *3			4.88			
				6.34			
	IF LV		NVV/NVV	0.54	-		
			111-711 LAA/	15.5	20.24		
			KVV	30.73	39.34		
			kcal/n	48,788	33,832		
			BIU/n	193,563	134,228		
Cooling capacity *7 *8	Power input *2		kVV	25.98	15.78		
Brine(ethylene glycol 35Wt%)	Current input 380-400-415V		A	43.9 - 41.7 - 40.2	26.7 - 25.4 - 24.4		
	EER(Pump input is not inc	cluded)		2.18	2.49		
	EER(Includes pump input	based on EN14	511) *3	2.10	2.42		
	Brine flow rate		m³/h	11.5	8.0		
Maximum current input			A	6	1		
Water pressure drop	Water *9		kPa	135	65		
	Brine(ethylene glycol 35wt%) *8 *10		kPa	106	50		
	Cooling		°C	Outlet wate	tlet water 5~25 *11		
	Water		°F	Outlet water	Outlet water 41~77 *11		
Tomp rango	Cooling		°C	Outlet brine -	10~25 *8 *12		
Temp range	Brine(ethylene glycol 35w	rt%)	°F	Outlet brine ?	Outlet brine 14~77 *8 *12		
	Outdoor		°C	-15~43	-15~43 *11 * ¹²		
			°F	5~109.4	5~109.4 *11 * ¹²		
Circulating water volume range			m³/h	7.7~2	7.7~25.8		
Sound pressure level (measured in anechoic room) at 1m *1			dB (A)	65	63		
Sound power level (measured in anechoic room) *1			dB (A)	77	75		
Diameter of water pipe	Inlet		mm (in)	50A (2B) hous	50A (2B) housing type joint		
(Standard piping)	Outlet		mm (in)	50A (2B) hous	50A (2B) housing type joint		
Diameter of water pipe	Inlet		mm (in)	100A (4B) hou	100A (4B) housing type joint		
(Inside header piping)	Outlet		mm (in)	100A (4B) hou	100A (4B) housing type joint		
External finish				Polyester powder of	Polyester powder coating steel plate		
External dimension HxWxD			mm	2450 x 22	250 x 900		
	Standard piping		ka (lbs)	957 (2	2110)		
Net weight	Inside header piping		kg (lbs)	992 (2	992 (2187)		
	R410A		MPa	4.1	15		
Design pressure	Water		MPa	1.	1.0		
	Water side			Stainless steel plate and copper brazing			
Heat exchanger	Air side			Plate fin and copper tube			
	Type			Inverter scroll berr			
Compressor	Maker			MITSUBISHI ELECTRIC CORPORATION			
	Starting method						
	Quantity			2			
	Motor output		k/M	11 7	• • 2		
			kW	0.045	×2 5×2		
				MEI 32			
	Air flow rate		m ³ /min				
				(7)	1283 x 6		
			L/S	1283	2719 x 6		
Fan	Turne Quert't		cīm	2/19 X 6			
	Type, Quantity			Propeller fan x 6			
	Starting method		1347	Inve	Inverter		
			KVV	0.19			
Deterior	High pressure protection			High pres.Sensor & High pres	High pres.Sensor & High pres.Switch at 4.15MPa (601psi)		
Protection				Over-heat protection, C	Over-heat protection, Over current protection		
	Compressor			Over-heat protection			

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*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.
 Pump is not included in e-series.

 ⁴⁴ EN14511 standard (2013) formula is applied to figure out this value in case of fixed flow rate operation (flow rate is fixed at any heat load)
 ⁴⁵ Pump input is included in cooling capacity for EER calculation. Condition of water inlet and outlet is fixed at inlet 12°C and outlet 7°C.
 ⁴⁵ EN14511 standard (2013) formula is applied to figure out this value in case of variable flow rate operation (flow rate varies per heat load).
 ⁴⁶ Pump input is included in cooling capacity for EER calculation. Condition of water temperature : inlet water temperature varies due to fixed water flow rate and outlet is fixed at outlet 7°C.
 ⁴⁵ Other temperature is included in cooling capacity for EER calculation. Condition of water temperature : inlet water temperature varies due to fixed water flow rate and outlet is fixed at outlet 7°C.
 ⁴⁶ Other temperature is included in cooling capacity for EER calculation. Will 255 500 formula is applied to figure out this value in the standard (2013) formula is applied to figure out this value in case of variable flow rate operation (flow rate varies due to fixed water flow rate and outlet is fixed at outlet 7°C.
 ⁴⁷ Other temperature is the standard the form of water temperature is interval. *6

Calculations according to standard performances (in accordance with AHRI 550-590). Under normal cooling conditions at outdoor temp 35°CDB/24°CWB (95°FDB/75.2°FWB) outlet brine temp -5°C (23.0°F) inlet brine temp 0°C (32.0°F).

*7 *8

Set the dipswitch SW3-6 on both main and sub modules to ON. Under normal cooling conditions capacity 90kW, water flow rate 15.5m3/h

** Set the dipswitch SW3-6 on both main and sub modules to ON.
 *9 Under normal cooling conditions capacity 90kW, water flow rate 15.5m3/h
 *10 Under normal cooling conditions capacity 56.73kW, brine flow rate 11.5m3/h
 *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 don't 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.



Technical specifications HEATPUMP MODEL							
MODEL			SET	EAHV-P900 EAHV-P900	EAHV-P900YAL(-N)(-BS) EAHV-P900YAF(-N)(-BS)		
Power source				3-phase 4-wire 380	-400-415V 50/60Hz		
Capacity change mode				Capacity priority	COP priority		
			kW	90.00	63.00		
			kcal/h	77,400	54,180		
			BTU/h	307,080	214,956		
	Power input *3		kW	27.27	16.27		
	Current input 380-400	-415V	A	46.0 - 43.7 - 42.2	27.5 - 26.1 - 25.2		
Cooling capacity *1	Pump input is not	EER		3.30	3.87		
	included ESEER			5.66	-		
	Certified value by EER *4			2.94	3.76		
	EUROVENT ESEER *4 *6			4.71	-		
	ESEER (Includes pump input based on EN14511) *4 *7			5.46	-		
	SEER (Includes pump	input based on EN	V14511) *4	4.88	-		
	IPLV *8		kW/kW	6.34	-		
	Water flow rate		m³/h	15.5	10.8		
			kW	90.00	63.00		
			kcal/h	77.400	54,180		
			BTU/h	307.080	214 956		
	Power input *3		kW	25.71	16.96		
	Current input 380-400-415V		A	43.4 - 41.2 - 39.7	28.6 - 27.2 - 26.2		
	COP (Pump input is n	ot included)		3.50	371		
Heating capacity *2	COP (Includes pump input based on EN1		14511) *4	3 25	3.61		
	SCOP (Reversible) Lo	ow/Medium (Include	es pump input based on	3.66/2.89	-		
	Seasonal space heating energy efficiency class for medium-temperature application			A+	-		
	Seasonal space heati application	ng energy efficienc	y class for low-temperature	A+	-		
	Water flow rate		m³/h	15.5	10.8		
Maximum current input			A	6	:1		
Water pressure drop *5			kPa	135	65		
	Cooling		°C	Outlet wat	ater 5~25 *9		
	Cooling		°F	Outlet wate	er 41~77 *9		
Tomp rango	Heating		°C	Outlet water 30~55 *9			
Temp range	Heating		°F	Outlet wate	Outlet water 86~131 *9		
	Outdoor		°C	-15~43 * ⁹			
	Cutabol		°F	5~10	9.4 * ⁹		
Circulating water volume range			m³/h	7.7~25.8			
Sound pressure level (measured in anechoic room) at 1m *1			dB (A)	65	63		
Sound power level (measured in anechoic room) *1			dB (A)	77	75		
Diameter of water pipe	Inlet		mm (in)	50A (2B) housing type joint			
(Standard piping) Outlet			mm (in)	50A (2B) housing type joint			
Diameter of water pipe	Inlet		mm (in)	100A (4B) housing type joint			
(Inside header piping)	Outlet		mm (in)	100A (4B) housing type joint			
External finish				Polyester powder coating steel plate			
External dimension HxWxD			mm	2450 x 22	250 x 900		
Net weight Design pressure	Standard piping		kg (lbs)	987 (2176)		
	Inside header piping		kg (lbs)	1022	(2253)		
	R410A		MPa	4.15			
	Water		MPa	1	.0		
	Water side			Stainless steel plate and copper brazing			
Heat exchanger	Air side			Plate fin and copper tube			
Compressor	Туре			Inverter scroll hermetic compressor			
	Maker			MITSUBISHI ELECTRIC CORPORATION			
	Starting method			Inverter			
	Quantity			2			
	Motor output		kW	11.7 x 2			
	Case heater		kW	0.04	5 x 2		
	Lubricant			MEL32			
Fan	Air flow rate		m³/min	77 x 6			
			L/s	1283 x 6			
			cfm	2719 x 6			
	Type, Quantity			Propeller fan x 6			
	Starting method			Inverter			
	Motor output kW			0.19 x 6			
	High pressure protect	ion		High pres.Sensor & High pres.Switch at 4.15MPa (601psi)			
Protection	Inverter circuit			Over-heat protection.	Over-heat protection, Over current protection		
	Compressor			Over heat protection			

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). 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. *1 *2

*3 *4

*5

*6

Pump is not included in e-series. Under normal cooling or heating conditions capacity 90kW, water flow rate 15.5m3/h EN14511 standard (2013) formula is applied to figure out this value in case of fixed flow rate operation (flow rate is fixed at any heat load) Pump input is included in cooling capacity for EER calculation. Condition of water inlet and outlet is fixed at inlet 12°C and outlet 7°C. EN14511 standard (2013) formula is applied to figure out this value in case of variable flow rate operation (flow rate varies per heat load). Pump input is included in cooling capacity for EER calculation. Condition of water temperature : inlet water temperature varies due to fixed water flow rate and outlet is fixed at outlet 7°C. *7 Colculations according to standard performances (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.



Technical specifications HEATING ONLY MODEL

MODEL		SET	EAHV-P900YAL-H(-N)(-BS) EAHV-P900YAF-H(-N)(-BS)		
Power source			3-phase 4-wire 380-4	400-415V 50/60Hz	
Capacity change mode			Capacity priority	COP priority	
		kW	90.00	63.00	
		kcal/h	77,400	54,180	
		BTU/h	307.080	214.956	
Heating capacity *1	Power input *2	kW	25.71	16.96	
	Current input 380-400-415V	Δ	43 4 - 41 2 - 39 7	28.6 - 27.2 - 26.2	
	COP (Pump input is not included)		3 50	3 71	
	COP (Includes nump input based on EN1.	4511) *3	3.25	3.61	
	SCOP (Reversible) Low/Medium (Includer	s numn input based on	3.23	5.01	
	EN14511) *4	class for medium-temperature	3.56/2.83	-	
	application		A+	-	
	Seasonal space heating energy efficiency	class for low-temperature	A+	-	
	Water flow rate	m³/h	15.5	10.8	
Maximum current input		A	61	1010	
Water pressure drop *5		kPa	135	65	
		°C	Outlet water	30~55 *6	
	Heating		Outlet water	Outlet water 50 55	
Temp range		F		80~131 ~~	
	Outdoor	-0	-15~4,	3 "0	
		°F	5~109.	5~109.4 *6	
Circulating water volume range		m³/h	7.7~2	5.8	
Sound pressure level (measured in anechoic room) at 1m *4		dB (A)	65	63	
Sound power level (measured in anechoic room) *4		dB (A)	77	75	
Diameter of water pipe	Inlet	mm (in)	50A (2B) housi	ng type joint	
(Standard piping)	Outlet	mm (in)	50A (2B) housi	ng type joint	
Diameter of water pipe	Inlet mm (in)		100A (4B) hous	100A (4B) housing type joint	
(Inside header piping)	Outlet	mm (in)	100A (4B) hous	ing type joint	
External finish			Polyester powder c	oating steel plate	
External dimension HxWxD		mm	2450 x 225	2450 x 2250 x 900	
	Standard piping	ka (lbs)	987 (2	176)	
Net weight	Inside header piping	kg (lbs)	1022 (2	(253)	
	R410A	MPa		4 15	
Design pressure	Water	MPa	1 (10	
	Water side	ivii d	Stainless steel plate and conner brazing		
Heat exchanger	Air aida		Plate fin and connect tube		
	Turpo				
	Nekee				
	Maker				
	Starting method		Inverter		
Compressor	Quantity		2	2	
	Motor output	kW	11.7 :	11.7 x 2	
	Case heater	kW	0.045	x 2	
	Lubricant		MEL	32	
		m³/min	77 x	6	
	Air flow rate	L/s	1283	x 6	
Fan		cfm	2719	2719 x 6	
	Type, Quantity		Propeller fan x 6		
	Starting method		Inverter		
	Motor output kW		0.19 x 6		
Protection	High pressure protection		High pres.Sensor & High pres.Switch at 4.15MPa (601psi)		
	Inverter circuit		Over-heat protection, O	Over-heat protection, Over current protection	
	Compressor		Over-heat p	protection	
 *1 Under normal heating conditions = *2 Pump input is not included. *3 Pump is not included in e-series. *4 Under normal heating conditions = *5 Under normal heating conditions = *Please don't use the steel material *Please always make water circulat *Please do not use groundwater or *The water circuit must be closed ci 	at outdoor temp 7°CDB/6°CWB (44.6°FDB/ at outdoor temp 7°CDB/6°CWB (44.6°FDB/ capacity 90kW, water flow rate 15.5m3/h for the water piping material. e, or pull the circulation water out completely well water in direct. rouit.	 \$2.8°FWB) outlet water temp 45° \$2.8°FWB) outlet water temp 45° \$42.8°FWB) outlet water temp 45° \$42.8°FWB) outlet water temp 45° 	C (113°F) inlet water temp 40°C (104°F). C (113°F) inlet water temp 40°C (104°F).		

*Due to continuous improvement, the above specifications may be subject to change without notice.