



Water cooled
screw inverter
chiller, premium
efficiency,
standard sound
EWWD-VZPS



Inverter



Screw compressor

- › Premium energy efficiency both at full and part load conditions
- › Compact footprint through stacked heat exchanger lay-out
- › Heat pump version with reversibility on water side (up to 65°C hot water production)
- › Multiple options available: sound proof cabinet, rapid restart, removable electrical panel, etc. to adapt the unit to your specific application and need
- › Thanks to a large operating envelope, the unit is suitable for all possible process and comfort applications
- › High efficient flooded type heat exchanger allowing maximum unit performances
- › One or two truly independent refrigerant circuits for outstanding reliability

EWWD-VZPS



Heating only & Cooling only				EWWD-VZPS	505	715	910	C12	C16	C18
Cooling capacity	Nom.			kW	504.9 (1)	717.7 (1)	908.1 (1)	1,201 (1)	1,604 (1)	1,757 (1)
Heating capacity	Nom.			kW	619.7	885.3	1,115	1,488	1,987	2,180
Power input	Cooling	Nom.		kW	87.5 (1)	126 (1)	156 (1)	219 (1)	292 (1)	326 (1)
	Heating	Nom.		kW	110	161	196	277	368	410
Capacity control	Method				Stepless					
	Minimum capacity			%	20					
EER					5.77 (1)	5.66 (1)	5.81 (1)	5.48 (1)	5.49 (1)	5.39 (1)
COP					5.62	5.49	5.68	5.37	5.4	5.32
ESEER					8.15	8.48	8.25	8.66	8.53	8.71
IPLV					9.61	9.68	9.57	9.79	9.82	9.92
Dimensions	Unit	Height	mm	2,090	2,430	2,480	2,290	2,500	2,490	
		Width	mm	1,180	1,330	1,340	1,580	1,610	1,770	
		Depth	mm	3,690		3,830	4,560	4,570	4,870	
Weight	Unit			kg	3,247	4,082	4,346	6,310	7,530	8,250
	Operation weight			kg	3,375	4,349	4,660	6,900	8,300	9,200
Water heat exchanger - evaporator	Type				Flooded single pass shell and tube					
	Water volume			l	96	168	199	320	380	480
	Water flow rate	Cooling	Nom.	l/s	24.2	34.4	43.5	57.4	76.8	84.0
		Heating	Nom.	l/s	24.4	34.7	44	58.1	77.7	84.9
	Water pressure drop	Cooling	Nom.	kPa	55.0	42.0	44.0	37.0	49.0	41.0
Heating		Nom.	kPa	56	43	45	38	50	42	
Water heat exchanger - condenser	Type				Single pass shell and tube					
	Water volume			l	126	217	241	270	390	470
	Water flow rate	Cooling	Nom.	l/s	28.5	40.6	51.2	41.9	52.9	61.9
		Heating	Nom.	l/s	29.93	42.76	53.83	44.15	55.7	64.99
	Water pressure drop	Cooling	Nom.	kPa	15.0	17.0	19.0	21.0		28.0
Heating		Nom.	kPa	17	18	21	23		30	
Compressor	Type				Inverter driven single screw compressor					
	Quantity				1		2			
Sound power level	Cooling	Nom.		dB(A)	99	105		106	107	109
Sound pressure level	Cooling	Nom.		dB(A)	80	86		87	88	89
Operation range	Evaporator	Cooling	Min.-Max.	°CDB	-3~20					
	Condenser	Cooling	Min.-Max.	°CDB	16~65					
Refrigerant	Type				R-134a					
	GWP				1,430					
	Circuits	Quantity			1		2			
Refrigerant charge	Per circuit			kg	100	150	180	145	160	175
				TCO _{2eq}	143	215	257	207	229	250
Piping connections	Evaporator water inlet/outlet			mm	139.7	219.1			273	
	Condenser water inlet/outlet			mm	219.1			219.1 / 219.10		
Unit	Starting current			Max	A	173	214	295	0	
	Running current	Cooling	Nom.	A	138	200	247	338	447	497
		Max		A	247	306	421	553	727	810
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					

(1) All the performances (Cooling capacity, unit power input in cooling and EER) are based on the following conditions: evaporator 12.0/7.0°C; condenser 30/35.0°C, unit at full load operation, operating fluid: water, fouling factor = 0 | Equipment contains fluorinated greenhouse gases. Actual refrigerant charge depends on the final unit construction, details can be found on the unit labels.

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