



Water cooled
screw inverter
chiller, standard
efficiency,
standard sound
EWWD-VZSS



Inverter



Screw compressor

- › Optimized 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-VZSS



Heating only & Cooling only				EWWD-VZSS																									
				600	700	760	890	C10	C12	C13	C14	C16	C17	C19	C21														
Cooling capacity	Nom.			kW	610 (1)	704.1 (1)	757 (1)	894 (1)	1,039 (1)	1,173 (1)	1,288 (1)	1,381 (1)	1,552 (1)	1,722 (1)	1,873 (1)	2,050 (1)													
Heating capacity	Nom.			kW	756.7	877.8	943.2	1,107	1,292	1,466.0	1,611	1,731	1,945	2,152	2,349	2,560													
Power input	Cooling	Nom.		kW	110 (1)	132 (1)	142 (1)	162 (1)	196 (1)	231 (1)	252 (1)	276 (1)	315 (1)	340 (1)	381 (1)	404 (1)													
	Heating	Nom.		kW	140	166	179	201	244	292	319	349	394	425	472	503													
Capacity control	Method			Stepless																									
	Minimum capacity			%	20				10																				
EER					5.51 (1)	5.31 (1)	5.52 (1)	5.28 (1)	5.08 (1)	5.11 (1)	5.00 (1)	4.93 (1)	5.06 (1)	4.92 (1)	5.07 (1)														
COP					5.42	5.27	5.28	5.5	5.02	5.05	4.96	4.94	5.06	4.98	5.09														
ESEER					7.62	7.50	7.63	7.54	7.52	7.86	7.81	7.90	7.46	7.99	7.49	7.95													
IPLV					9.43	9.36	9.37	9.40	9.52	9.56	9.57	9.36	9.70	9.38	9.65														
Dimensions	Unit	Height	mm	2,120		2,290		2,480		2,290			2,350		2,500														
		Width	mm	1,180		1,240		1,340		1,480			1,580		1,720														
		Depth	mm	3,460		3,690		3,830		4,550			4,560		4,570														
		Weight	kg	2,892		2,928		2,941		3,451		4,237		5,570		5,790		5,820		6,220		6,290		6,690		7,480		7,830	
Water heat exchanger - evaporator	Type			Flooded single pass shell and tube																									
	Water volume			l	88		96		134		156		230		270		320		380										
	Water flow rate	Cooling	Nom.	l/s	29.3	33.8	36.3	42.9	49.9	56.2	61.8	66.2	74.4	82.6	89.9	98.3													
		Heating	Nom.	l/s	29.6	34.2	36.7	43.5	50.4	56.5	62.1	66.5	74.7	83.1	90.4	98.9													
Water pressure drop	Cooling	Nom.	kPa	80.0	106	89.0	98.0	104	69.0	84.0	70.0	89.0	78.0	92.0	80.0														
	Heating	Nom.	kPa	82	108	90	100	106	70	84	71	89	79	93	81														
Water heat exchanger - condenser	Type			Single pass shell and tube																									
	Water volume			l	81		102		126		217		180		200		270		250		430								
	Water flow rate	Cooling	Nom.	l/s	34.5	40.2	43.1	50.7	59.4	41.3	38.8	41.7	51.7	61.0	56.7	61.9													
		Heating	Nom.	l/s	36.46	42.33	45.47	53.38	62.35	43.36	40.75	43.8	54.13	63.86	59.42	64.8													
Water pressure drop	Cooling	Nom.	kPa	31.0	29.0	32.0	30.0	33.0	44.0	39.0	45.0	66.0	42.0	55.0	37.0														
	Heating	Nom.	kPa	60	44	51	48	36	48	43	49	71	46	60	40														
Compressor	Type			Inverter driven single screw compressor																									
	Quantity			1																									
Sound power level	Cooling	Nom.		dB(A)	101		105		107		106		107		108		110												
	Heating	Nom.		dB(A)	82		86		88		87		88		89		90												
Operation range	Evaporator	Cooling	Min.-Max.	°CDB	-3~20																								
	Condenser	Cooling	Min.-Max.	°CDB	16~63																								
Refrigerant	Type			R-134a																									
	GWP			1,430																									
Refrigerant charge	Circuits			Quantity																									
	Per circuit			kg	100		110		170		180		125		130		145		160		175								
				TCO _{2eq}	143		157		243		257		179		186		207		229		250								
Piping connections	Evaporator water inlet/outlet			mm	139.7		168.3		219.1																				
	Condenser water inlet/outlet			mm	168.3		219.1		168.3 / 168.30			219.1 / 219.10																	
Unit	Starting current			Max	A	179	214	245	295	344	0																		
	Running current	Cooling	Nom.	A	171	202	220	249	300	349	379	414	470	508	566	604													
		Max		A	256	306	350	421	491	553	555	612	727	810	926	1,009													
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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