



Water cooled
screw inverter
chiller, high
efficiency,
standard sound
EWWD-VZXS



Inverter



Screw compressor

- › High 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

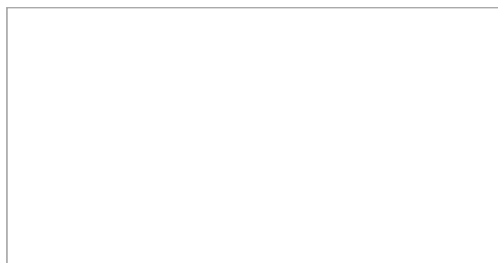
EWWD-VZXS



Heating only & Cooling only				EWWD-VZXS	450	500	610	710	800	900	C11	C12	C13	C14	C16	C17	C19	C21												
Cooling capacity	Nom.			kW	449 (1)	501 (1)	613 (1)	713 (1)	793 (1)	901 (1)	1,053 (1)	1,193 (1)	1,304 (1)	1,405 (1)	1,592 (1)	1,748 (1)	1,911 (1)	2,068 (1)												
Heating capacity	Nom.			kW	553	617.2	756.7	882.2	984.6	1,110	1,302	1,482	1,624	1,750	1,976	2,174	2,376	2,576												
Power input	Cooling	Nom.		kW	81.1 (1)	89.6 (1)	108 (1)	128 (1)	146 (1)	158 (1)	192 (1)	222 (1)	244 (1)	263 (1)	296 (1)	329 (1)	366 (1)	395 (1)												
	Heating	Nom.		kW	102	112	138	163	185	199	240	280	310	333	373	413	457	491												
Capacity control	Method			Stepless																										
	Minimum capacity			%	20							10																		
EER					5.53 (1)	5.58 (1)	5.64 (1)	5.54 (1)	5.43 (1)	5.67 (1)	5.46 (1)	5.37 (1)	5.34 (1)		5.38 (1)	5.31 (1)	5.22 (1)	5.24 (1)												
COP					5.45	5.49	5.48	5.42	5.33	5.58	5.43	5.29	5.24	5.26	5.3	5.26	5.2	5.25												
ESEER					7.51	7.92	8.10	8.20	8.22	7.92	8.17	8.36	8.25	8.47	8.24	8.45	8.20	8.33												
IPLV					9.42	9.59	9.52	9.66	9.64	9.48	9.58	9.66	9.67	9.76	9.74	9.82	9.68	9.70												
Dimensions	Unit	Height		mm	2,090		2,120		2,230		2,290		2,480		2,320		2,290		2,350		2,500		2,480		2,490					
		Width		mm	1,180				1,220				1,340				1,490				1,580									
		Depth		mm	3,460				3,690				3,830				4,550				4,560				4,570				4,870	
Weight	Unit			kg	2,968	2,911	3,102	3,470	3,451	4,257	4,552	5,860	6,240	6,520	6,920	7,530	7,790	8,670												
	Operation weight			kg	3,098	3,006	3,274	3,648	3,611	4,518	4,860	6,370	6,760	7,130	7,530	8,300	8,560	9,630												
Water heat exchanger - evaporator	Type			Flooded single pass shell and tube																										
	Water volume			l	70	88	136	134		168	199	270		320		380	480													
	Water flow rate	Cooling	Nom.	l/s	21.6	24.0	29.4	34.2	38.0	43.2	50.4	57.1	62.5	67.3	76.3	83.7	91.5	99.0												
		Heating	Nom.	l/s	21.7	24.2	29.7	34.5	38.4	43.7	50.9	57.7	63.2	68	77	84.6	92.1	100.1												
Water pressure drop	Cooling	Nom.	kPa	89.0	63.0	59.0	63.0	55.0	67.0	58.0	62.0	62.0	52.0	66.0	58.0	49.0	58.0													
	Heating	Nom.	kPa	90	64	60	64	56	68	59	53	64	53	68	59	50	59													
Water heat exchanger - condenser	Type			Single pass shell and tube																										
	Water volume			l	81	92	126	145	126	217	241	240	250	290		390	290	480												
	Water flow rate	Cooling	Nom.	l/s	25.4	28.3	34.7	40.4	45.2	50.9	59.9	41.7	39.1	42.1	52.6	61.7	57.4	62.1												
		Heating	Nom.	l/s	26.68	29.78	36.53	42.6	47.53	53.59	62.85	44	41.14	44.34	55.24	64.77	60.19	65.24												
Water pressure drop	Cooling	Nom.	kPa	31.0	28.0	22.0	20.0	24.0	25.0		21.0	28.0	22.0	32.0	27.0	38.0	28.0													
	Heating	Nom.	kPa	34	31	24	22	27	28	27	23	31	24	35	30	41	30													
Compressor	Type			Inverter driven single screw compressor																										
	Quantity			1							2																			
Sound power level	Cooling	Nom.		dB(A)	97	99	101	105		107		106		107		108	109	110												
Sound pressure level	Cooling	Nom.		dB(A)	78	80	82	86		88		87		88		89		90												
Operation range	Evaporator	Cooling	Min.-Max.	°CDB	-3~20																									
	Condenser	Cooling	Min.-Max.	°CDB	16~65																									
Refrigerant	Type			R-134a																										
	GWP			1,430																										
Refrigerant charge	Per circuit	Circuits		Quantity	1							2																		
					kg	95	100	110	170	180	125	130	145	160	175															
				TCO _{2eq}	136	143	157	243		257		179	186	207		229		250												
Piping connections	Evaporator water inlet/outlet			mm	139.7				168.3				219.1				273													
	Condenser water inlet/outlet			mm	168.3				219.1				168.3 / 219.1				219.1 / 219.10													
Unit	Starting current		Max	A	155	173	179	214	256	295	344	0																		
	Running current	Cooling	Nom.	A	126	140	171	201	229	249	299	340	372	400	450	498	554	596												
		Max		A	222	247	256	306	366	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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