



Air cooled screw
inverter heat
pump, standard
efficiency,
standard sound

EWYD-BZSS

R-134a



Inverter



Screw compressor

- › Ideal solution for commercial comfort cooling and/or heating applications
- › Optimum ESEER values
- › 2-3 truly independent refrigerant circuits

- › Low starting current
- › DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops

EWYD-BZSS



Heating & Cooling				EWYD-BZSS																					
				250	270	290	320	340	370	380	410	440	460	510	520	580									
Cooling capacity	Nom.	kW		253	272	291	323	337	363	380	411	433	455	502	519	580									
Heating capacity	Nom.	kW		271	298	325	334	350	380	412	445	465	477	533	561	618									
Power input	Cooling	Nom.		91.3	101	110	117	125	135	144	154	165	163	182	189	218									
	Heating	Nom.		91.4	100	108	118	126	133	143	157	167	165	178	186	208									
Capacity control	Method			Stepless																					
	Minimum capacity			13.0						9.0															
EER				2.77	2.70	2.65	2.75	2.69	2.68	2.63	2.66	2.62	2.79	2.76	2.74	2.67									
ESEER				3.93	3.92	3.89	3.95	3.89	3.90	3.82	3.91	3.89	4.18	4.01	3.93										
COP				2.96	2.97	3.00	2.82	2.78	2.85	2.88	2.83	2.79	2.88	2.99	3.01	2.97									
SCOP				2.60	2.62	2.66	2.48	2.49	2.52	2.47	2.55	2.64	2.66	2.62											
IPLV				4.58	4.62	4.75	4.64	4.71	4.67	4.73	4.69	4.85	4.89	4.85	4.78										
Dimensions	Unit	Height	mm	2,335																					
		Width	mm	2,254						2,280															
		Depth	mm	3,547			4,428			5,329			6,659												
Weight	Unit	Operation weight		kg	3,410	3,455	3,500	3,870	3,940	4,010	4,390	5,015	5,495	5,735											
				kg	3,550	3,595	3,640	4,010	4,068	4,138	4,518	5,255	5,724	5,964	5,953										
Water heat exchanger	Type			Single pass shell & tube																					
	Water flow rate	Cooling	Nom.	l/s	12.1	13.0	13.9	15.5	16.2	17.4	18.2	19.7	20.8	21.8	24.1	24.9	27.8								
		Heating	Nom.	l/s	13.1	14.4	15.7	16.1	16.9	18.3	19.8	21.4	22.4	23.0	25.6	27.0	29.7								
	Water pressure drop	Cooling	Nom.	kPa	40	46	44	50	55	60	65	74	80	47	85	91	61								
		Heating	Nom.	kPa	30	35	52	37	40	45	51	59	64	42	63	69	59								
Water volume				138			133			128			240		229		218								
Air heat exchanger	Type			High efficiency fin and tube type with integral subcooler																					
Compressor	Type			Single screw compressor																					
	Quantity			2						3															
Fan	Type			Direct propeller																					
	Quantity			6			8			10			12												
	Air flow rate	Nom.		l/s	31,729	31,422	31,115	42,306	42,337	41,487	52,882	63,458	62,640	61,652	62,231										
Speed				900																					
Sound power level	Cooling	Nom.		dB(A)	101						102			104											
Sound pressure level	Cooling	Nom.		dB(A)	82						83			84											
Operation range	Air side	Cooling	Min.~Max.	°CDB	-10~45																				
		Heating	Min.~Max.	°CDB	-10~20																				
	Water side	Cooling	Min.~Max.	°CDB	-8~15																				
		Heating	Min.~Max.	°CDB	35~55																				
Refrigerant	Type/GWP			R-134a/1,430																					
	Quantity			2						3															
Refrigerant charge	Per circuit			kg	43.0	44.0	43.0	46.0	46.5	47.0	50.0	47.0	49.0												
	Per circuit			TCO ₂ Eq	61.5	62.9	61.5	65.8	66.5	67.2	71.5	67.2	70.1												
Piping connections	Evaporator water inlet/outlet (OD)			139.7mm						219.1mm															
Unit	Starting current			Max	150			181			204			224			238			245		300		323	
	Running current	Cooling	Nom.		A	137	150	164	176	188	202	214	229	244	246	270	281	322							
		Max		A	211	212	254	288			316			336			329		398		432				
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400																				

Cooling: entering evaporator water temp. 12°C; leaving evaporator water temp. 7°C; ambient air temp. 35°C; full load operation.
 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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