



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

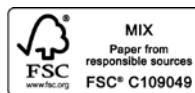
EWYD-BZSS



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.		kW	91.3	101	110	117	125	135	144	154	165	163	182	189	218
	Heating	Nom.		kW	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			kg	3,410	3,455	3,500	3,870	3,940	4,010	4,390	5,015	5,495	5,735			
		Operation weight		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			l	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			rpm	900													
Sound power level	Cooling	Nom.	dBA	101						102			104				
Sound pressure level	Cooling	Nom.	dBA	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														
	Circuits	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	A			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.

Daikin Europe N.V. Naamloze Vennootschap · Zandvoordestraat 300 · 8400 Oostende · Belgium · www.daikin.eu · BE 0412 120 336 · RPR Oostende (Responsible Editor)



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