

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

EWYD-BZSL



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

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Heating & Cooling				EWYD-BZSL													
				250	270	290	320	330	360	370	400	430	450	490	510	570	
Cooling capacity	Nom.	kW		247	265	290	315	330	353	370	401	423	446	490	507	565	
Heating capacity	Nom.	kW		271	298	325	334	350	380	412	445	465	477	533	561	618	
Power input	Cooling	Nom.	kW	89.5	99.5	110	115	123	134	144	151	163	158	177	186	216	
	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				2.76	2.66	2.62	2.75	2.68	2.64	2.57	2.66	2.59	2.83	2.77	2.73	2.61	
ESEER				4.06	4.04	4.03	4.17	4.09	4.04	4.01	4.06	4.02	4.18	4.16	4.10	3.98	
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	2.62		
IPLV				4.90	4.96	4.91	5.17	5.08	5.12	5.06	5.22	5.13	5.07	5.03	4.99	4.90	
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		3,750	3,795	3,840	4,210	4,280	4,350	4,730	5,525	6,005	6,245				
	Operation weight	kg		3,888	3,933	3,978	4,343	4,408	4,478	4,858	5,765	6,234	6,474	6,463			
Water heat exchanger	Type	Single pass shell & tube															
	Water flow rate	Cooling	Nom.	l/s	11.8	12.7	13.9	15.1	15.8	16.9	17.7	19.2	20.3	21.4	23.5	24.3	27.1
		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	38	44	42	48	53	57	62	71	77	45	82	87	58
		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	Cooling	Nom.	l/s	24,432	24,264	24,095	32,576	32,628	32,127	40,720	48,863	48,415	47,732	48,191		
Speed			rpm	700													
Sound power level	Cooling	Nom.		dB(A)	94				95				97				
Sound pressure level	Cooling	Nom.		dB(A)	76						77						
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	145	146		176	199		217	231	234	288	311	305	
	Running current	Cooling	Nom.	A	134	148	163	171	184	199	212	224	240	238	263	275	319
		Max		A	202	203		243	277		302	322	313	381	415	406	
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.

For more information email info@daikinapplied.uk or visit www.daikinapplied.uk

London Sales Office
 69 Questor Estate
 Pearsons Way
 Dartford, Kent
 DA1 1JN
 01322 424950

Head Office
 Bassington Industrial Estate
 Cramlington, Northumberland
 NE23 8AF
 01670 566159



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