



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

EWYD-BZSL



R-134a



Inverter

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



Screw compressor

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

EWYD-BZSL

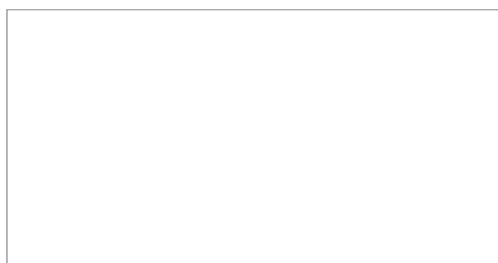


Heating & Cooling				EWYD-BZSL	250	270	290	320	330	360	370	400	430	450	490	510	570	
Cooling capacity	Nom.		kW	247	265	290	315	330	353	370	401	423	446	490	507	565		
Heating capacity	Nom.		kW	271	298	325	334	350	380	412	445	465	477	533	561	618		
Power input	Cooling	Nom.	kW	89.5	99.5	110	115	123	134	144	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	
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.

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