



# 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

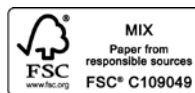
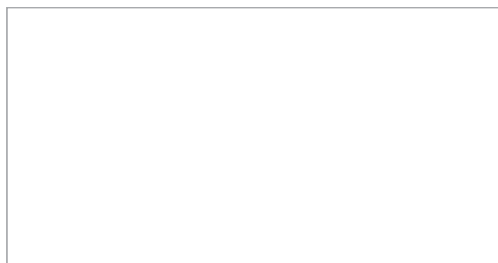


Heating & Cooling				EWYD-BZSL	250	270	290	320	330	360	370	400	430	450	490	510	570		
Cooling capacity	Nom.		kW	247	265	290	315	330	353	370	401	423	446	490	507	565			
Heating capacity	Nom.		kW	271	298	325	334	350	380	412	445	465	477	533	561	618			
Power input	Cooling	Nom.	kW	89.5	99.5	110	115	123	134	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					
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 <sub>2</sub> 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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