



Air cooled screw
inverter chiller,
standard
efficiency,
standard/reduced
sound

EWAD-TZSS/SR

R-134a



Inverter



Screw compressor

- › Optimised energy efficiency both at full and part load conditions
- › Advanced compressor technology featuring integrated inverter and variable volume ratio (VVR)
- › Compact design for small footprint and minimized installation space

- › Low operating sound levels are achieved by the latest compressor and fan design
- › One or two truly independent refrigerant circuits for outstanding reliability

EWAD-TZSS/SR



Cooling only				EWAD-TZSS/SR															
				170	205	235	270	320	365	370	415	465	500	540	590	640	710		
Cooling capacity	Nom.	kW		170	205	229	268	317	365	366	412	463	499	536	589	640	710		
Power input	Cooling	kW		62.2	72.5	79.1	96.0	116	133	134	145	164	178	190	217	235	267		
Capacity control	Method	Stepless																	
	Minimum capacity	%		33.3	28.6	33.3	28.6	25.0	22.2	15.4	14.3	16.7	15.4	14.3	13.3	12.5	11.1		
EER					2.73	2.83	2.90	2.79	2.74		2.85	2.83	2.80	2.82	2.72	2.73	2.66		
ESEER					4.48	4.61	4.67	4.64	4.67	4.65	4.61	4.73	4.81	4.82	4.75	4.79	4.75	4.71	
IPLV					5.33	5.44	5.90	5.68	5.67	5.73	5.86	5.83	5.91	5.88	5.95	5.78			
Dimensions	Unit	Height	mm	2,270						2,222									
		Width	mm	1,224						2,258									
		Depth	mm	3,461	4,361	5,261		3,218		4,117		5,015		5,917					
Weight (SS)	Unit	kg		1,898	1,977	2,083	2,478	2,444	2,756	3,906	4,256	4,426	4,481	4,709	4,892	4,969	5,291		
	Operation weight	kg		1,915	2,077	2,183	2,504	2,596	2,806	3,995	4,426	4,590	4,645	4,873	5,162	5,231	5,553		
Weight (SR)	Unit	kg		1,996	2,075	2,181	2,576	2,541	2,854	4,101	4,452	4,621	4,676	4,904	5,087	5,164	5,486		
	Operation weight	kg		2,013	2,174	2,280	2,602	2,693	2,903	4,190	4,622	4,785	4,840	5,068	5,357	5,426	5,748		
Water heat exchanger	Type	Plate heat exchanger																	
	Water volume	l		17	24	26	39	50	89	170	164	270	262	Single pass shell & tube					
	Water flow rate	Cooling	Nom.	l/s		8.1	9.8	11.0	12.8	15.1	17.4	17.5	19.7	22.1	23.9	25.6	28.2	30.6	34.0
Air heat exchanger	Type	High efficiency fin and tube type with integral subcooler																	
	Compressor	Type	Inverter driven single screw compressor																
Fan	Quantity	1																	
	Type	Direct propeller																	
Sound power level (SS)	Quantity	3		4		5		6		8		10		12					
	Air flow rate	Cooling	Nom.	l/s		12,399	16,532	16,015	20,665	20,019	24,023	33,064	32,030	41,330	40,038	48,046			
	Speed	Cooling	Nom.	rpm		700													
Sound power level (SR)	Cooling	Nom.	dBA		96	97	96	97	98	101	99	100	99	100	101	104			
	Cooling	Nom.	dBA		89			90	92			93		95					
Sound pressure level (SS)	Cooling	Nom.	dBA		77			78	82	80	79	80		81	84				
	Cooling	Nom.	dBA		70	69	70	71	73	72		73		74					
Operation range	Water side	Cooling	Min.~Max.	°CDB		-8~15													
	Air side	Cooling	Min.~Max.	°CDB		-18~47													
Refrigerant	Type / GWP	R-134a / 1,430																	
	Circuits	Quantity	1						2										
Refrigerant charge	Per circuit	kg		29.0	35.0	39.0	46.0	54.0	62.0	31.0	35.0	39.5	42.5	45.5	50.0	54.5	60.5		
	Per circuit	TCO ₂ Eq		41.5	50.1	55.8	65.8	77.2	88.7	44.3	50.1	56.5	60.8	65.1	71.5	77.9	86.5		
Piping connections	Evaporator water inlet/outlet (OD)	88.9mm						114.3mm		139.7mm		168.3mm							
Unit	Maximum starting current	A		3															
	Nominal running current (RLA)	Cooling	A		106	123	134	161	194	221	226	245	277	299	319	365	392	441	
	Maximum running current	A		121	144	158	187	217	248	262	287	316	342	374	406	434	496		
Power supply	Phase/Frequency/Voltage	Hz/V		3~/50/400															

(1) 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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