



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

EWAD-TZXS/XR

R-134a



Inverter



Screw compressor

- › High 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

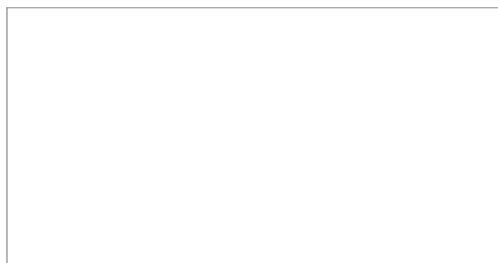
EWAD-TZXS/XR



Cooling only				EWAD-TZXS/XR																
				180	220	265	290	330	360	380	410	440	490	540	580	630	690			
Cooling capacity	Nom.			kW	180	216	265	288	332	360	366	407	441	490	536	577	629	682		
Power input	Cooling	Nom.		kW	56.1	68.4	84.6	89.8	106	113	116	128	139	156	169	185	201	216		
Capacity control	Method	Stepless																		
	Minimum capacity			%	33.3	28.6	30.8	28.6	25.0	23.5	16.7	15.4	14.3	16.7	15.4	14.3	13.3	12.5		
EER				3.20	3.16	3.14	3.21	3.14	3.18	3.16	3.17		3.15	3.17	3.12		3.16			
ESEER				5.02	5.09	5.10	5.16	5.23		5.02	5.10	5.05	5.02	5.18	5.15	5.12				
IPLV				6.32	6.20	6.33	6.26	6.32	6.37	6.38	6.47	6.39	6.42	6.48	6.44	6.53	6.51			
Dimensions	Unit	Height	mm	2,270								2,222								
		Width	mm	1,224								2,258								
		Depth	mm	4,361	5,261		3,218		4,117				5,015		5,917		6,817			
Weight	Unit			kg	2,060	2,304	2,434	2,582	2,986	3,039	4,247	4,321	4,704	4,706	4,882	5,185	5,275	5,588		
	Operation weight			kg	2,081	2,404	2,586	2,734	3,035	3,088	4,417	4,479	4,864		5,152	5,455	5,537	5,843		
Water heat exchanger	Type	Plate heat exchanger																		
	Water volume			l	20	24	39		50		170		158		270		262	255		
	Water flow rate	Cooling	Nom.	l/s	8.6	10.4	12.7	13.8	15.9	17.2	17.5	19.5	21.1	23.5	25.7	27.6	30.1	32.7		
	Water pressure drop	Cooling	Total	kPa	24	25	19	22	23	26	40	41	48	56	30	34	44	57		
Air heat exchanger	Type	High efficiency fin and tube type with integral subcooler																		
Compressor	Type	Inverter driven single screw compressor																		
	Quantity					1								2						
Fan	Type	Direct propeller																		
	Quantity				4	5		6	8				10		12		14			
	Air flow rate	Nom.		l/s	16,015	20,665	20,019	24,023	33,064	32,030	33,064	32,030	41,330	40,038	49,597	48,046	56,053			
	Speed			rpm	700															
Sound power level	Cooling	Nom.		dB(A)	96	97	96	97	98	99		100		99		100		101		
Sound pressure level	Cooling	Nom.		dB(A)	77				78	80	79	80		79		80				
Operation range	Air side	Cooling	Min.-Max.	°CDB	-18~49															
	Water side	Cooling	Min.-Max.	°CDB	-8~15															
Refrigerant	Type / GWP	R-134a / 1,430																		
	Circuits	Quantity			1								2							
Refrigerant charge	Per circuit			kg	31.0	37.0	45.0	49.0	57.0	61.0	31.0	34.5	37.5	42.0	45.5	49.0	53.5	58.0		
				TCO _{2eq}	44.3	52.9	64.4	70.1	81.5	87.2	44.3	49.3	53.6	60.1	65.1	70.1	76.5	82.9		
Piping connections	Evaporator water inlet/outlet (OD)				88.9mm				139.7mm				168.3mm							
Unit	Starting current	Max		A	3															
	Running current	Cooling	Nom.	A	98	118	144	153	182	194	202	220	239	267	289	315	344	368		
		Max		A	124	146	174	190	225	239	247	267	292	321	347	379	411	444		
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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