



Air cooled screw inverter chiller, premium efficiency, standard sound

EWAD-TZPSB



Inverter



Screw compressor

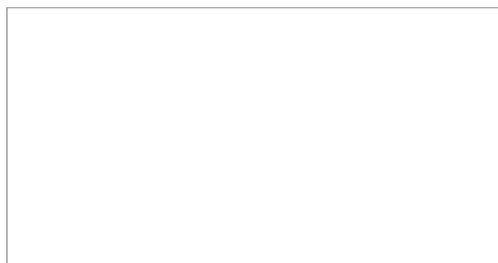
- › Premium energy efficiency both at full and part load conditions
- › Inverter stepless single-screw compressor with DC electrical motor
- › Advanced compressor technology featuring integrated inverter and variable volume ratio (VVR)
- › Continuous fans speed modulation with EC fans for even higher part load efficiency
- › Compact design for small footprint and minimized installation space

EWAD-TZPSB



Cooling only				EWAD-TZPSB																		
Cooling capacity		Nom.		kW	190	220	240	290	300	350	420	495	550	620	720	820	950					
Power input		Cooling		Nom.		kW	50.5	60.7	68.7	83.4	95.9	104	124	139	151.4	178.8	182.3	220.4	252.5			
Capacity control		Method		Stepless																		
		Minimum capacity		%	34	29	34	29	27	19	20	17	10									
EER					3.64	3.56	3.55	3.38	3.37	3.62	3.50	3.60	3.586	3.468	3.933	3.78	3.763					
ESEER					5.54	5.51	5.42	5.40	5.35	5.48		5.45	5.5	5.42	5.59	5.54	5.55					
IPLV					6.49	6.35	6.41	6.35	6.21	6.52	6.58	6.55	6.51	6.47	6.73	6.6	6.64					
Dimensions		Unit		Height		mm	2,483						2,482									
				Width		mm	2,258															
				Depth		mm	4,083			4,983	5,883	6,783		8,820	9,591		10,461	11,233				
Weight		Unit		kg	2,758		2,769	2,770	3,020	4,735	5,069	5,077	6,470	6,498	7,415	7,708	8,037					
		Operation weight		kg	2,808		2,819	2,820	3,070	4,990	5,324	5,332	6,777	6,805	7,900	8,193	8,490					
Water heat exchanger		Type		Plate heat exchanger																		
					8.8					10.3	11.7	13.5	15.5	18.1	20.9	24.0	26	29.6	34.3	39.8	45.4	
		Water flow rate		Cooling		Nom.		l/s	10.6		11.0	13.4	17.1	21.5	20.4	26.5	33.3	19.8	25	24.2	31.7	29
		Water pressure drop		Cooling		Nom.		kPa	10.6		11.0	13.4	17.1	21.5	20.4	26.5	33.3	19.8	25	24.2	31.7	29
		Water volume		l	50					255					307		485		453			
Air heat exchanger		Type		Microchannel																		
Compressor		Type		Inverter driven single screw compressor																		
		Quantity			1					2												
Fan		Type		Direct propeller																		
		Quantity			8			10	12	14	16	18	20	22	24							
		Air flow rate		Cooling		Nom.		l/s	29,610		37,013	44,415	51,818	59,220	66,623	74,025	81,428	88,830				
		Speed		rpm	700																	
Sound power level		Cooling		Nom.		dBA	97			98	99		100	101								
Sound pressure level		Cooling		Nom.		dBA	77			78	77	78	79									
Operation range		Air side		Cooling		Min.-Max.		°CDB	-18~52					-18~55								
		Water side		Cooling		Min.-Max.		°CDB	-8~18					-15~20								
Refrigerant		Type		R-134a																		
		Circuits		Quantity			1					2										
		GWP			1,430																	
Refrigerant charge		Per circuit		kg	49		50	51	58	38.5	43	47	52.5	57	65	71.5	78					
				TCO ₂ eq	70		72	73	83	55	61	67	75.075	81.51	92.95	102.245	111.54					
Piping connections		Evaporator water inlet/outlet (OD)			88.9mm			114.3mm			168.3 mm			6"		8"						
Unit		Starting current		Max		A	0															
		Running current		Cooling		Nom.		A	101	104	172	177		208	211	346	258	298	316	375	424	
		Max		A	126	144	162	188	218	246	285	324	352	436	437	512	577					
Power supply		Phase/Frequency/Voltage		Hz/V	3~/50/400																	

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