



Air cooled
screw inverter
chiller, premium
efficiency,
reduced sound

EWAD-TZPRB



Inverter



Screw compressor

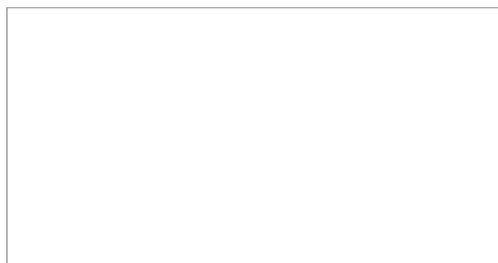
- › Premium energy efficiency both at full and part load conditions
- › Inverter stepless single-screw compressor with DC electrical motor
- › Advanced compressor technology featuring integrated inverter and variable volume ratio (VVR)
- › Continuous fans speed modulation with EC fans for even higher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

EWAD-TZPRB



Cooling only				EWAD-TZPRB																	
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	105	125	139	151.3	178.5	182.2	220.2	252.4		
Capacity control		Method			Stepless																
		Minimum capacity		%	34	29	34	29	27	19	20	17	10								
EER					3.71	3.59		3.35	3.31	3.64	3.49	3.62	3.59	3.473	3.935	3.783	3.764				
ESEER					5.55	5.52	5.27	5.16	5.20	5.32	5.21	5.38	5.5	5.42	5.59	5.54	5.55				
IPLV					6.49	6.35	6.23	6.07	6.04	6.30	6.27	6.47	6.53	6.47	6.73	6.60	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	2,858		2,869	2,870	3,120	4,935	5,269	5,277	6,620	6,648	7,735	8,028	8,357				
		Operation weight		kg	2,908		2,919	2,920	3,170	5,190	5,524	5,532	6,927	6,955	8,220	8,513	8,810				
Water heat exchanger		Type			Plate heat exchanger						Single pass shell & tube										
		Water flow rate		Cooling		Nom.		l/s	9.0	10.4	11.8	13.3	15.2	18.3	20.9	24.2	26	29.6	34.3	39.8	45.4
		Water pressure drop		Cooling		Nom.		kPa	10.6	11.0	13.4	17.1	21.5	20.4	26.4	33.2	19.8	24.9	24.2	31.7	28.9
		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	43,369	50,423	57,826	64,879	72,282	79,336	86,738		
		Speed		rpm	700																
Sound power level		Cooling		Nom.		dBA	87	88	87	88	89	90	94	95							
Sound pressure level		Cooling		Nom.		dBA	67	68	67	68			69	73							
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			168.3mm			6"		8"					
Unit		Starting current		Max		A	0														
		Running current		Cooling		Nom.		A	101	104	172	177		209	212	347	259	300	317	377	426
		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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