

Air cooled screw inverter chiller, premium efficiency, low sound

EWAD-TZPLB



Inverter



Screw compressor

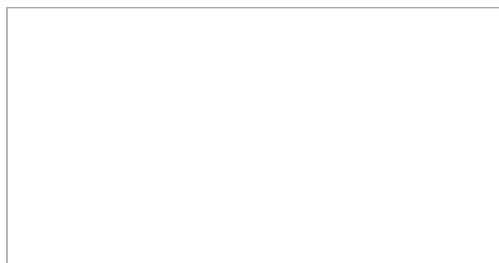
- › Premium energy efficiency both at full and part load conditions
- › Inverter stepless single-screw compressor with DC electrical motor
- › Advanced compressor technology featuring integrated inverter and variable volume ratio (VVR)
- › Continuous fans speed modulation with EC fans for even higher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

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Cooling only				EWAD-TZPLB																					
				190	220	240	290	300	350	420	495	550	620	720	820	950									
Cooling capacity	Nom.			kW			184	216	244	282	323	379	437	501	543	620	717	833	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	5.49	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			2,773		2,784	2,785	3,035	4,765	5,099	5,107	6,470	6,498	7,415	7,708	8,037						
		Operation weight		kg			2,823		2,834	2,835	3,085	5,020	5,354	5,362	6,777	6,805	7,900	8,193	8,490						
Water heat exchanger	Type			Plate heat exchanger																					
	Water flow rate	Cooling	Nom.	l/s			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 pressure drop			Cooling			Nom.			kPa			10.6	11.0	13.4	17.1	21.5	20.4	26.5	33.3	19.8	25
	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			91	91.5	91	91.5	92	93.5		94	97										
Sound pressure level	Cooling	Nom.		dBA			71	72	71	72		73	72	73	75										
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																		
	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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