



Air cooled screw inverter chiller, premium efficiency, standard sound

EWAD-TZPSB



Inverter



Screw compressor

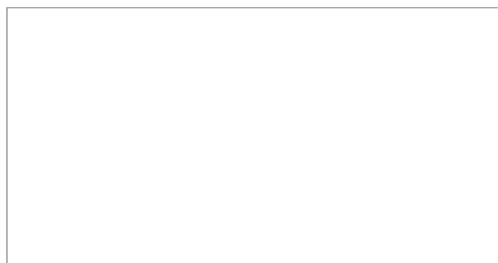
- › Premium energy efficiency both at full and part load conditions
- › Inverter stepless single-screw compressor with DC electrical motor
- › Advanced compressor technology featuring integrated inverter and variable volume ratio (VVR)
- › Continuous fans speed modulation with EC fans for even higher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

EWAD-TZPSB



Cooling only				EWAD-TZPSB										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		5.45	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									Single pass shell & tube												
	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	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																					
	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																					

Daikin Europe N.V. Naamloze Vennootschap · Zandvoordestraat 300 · 8400 Oostende · Belgium · www.daikin.eu · BE 0412 120 336 · RPR Oostende (Responsible Editor)



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