



Air cooled screw inverter chiller, high efficiency, standard sound

EWAD-TZXSB



Inverter



Screw compressor

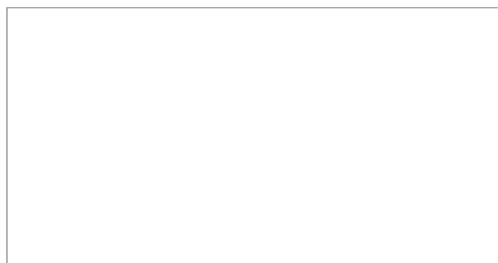
- › High energy efficiency both at full and part load conditions
- › Inverter stepless single-screw compressor with DC electrical motor
- › Advanced compressor technology featuring integrated inverter and variable volume ratio (VVR)
- › Continuous fans speed modulation thanks to inverter driven fans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

EWAD-TZXSB



Cooling only				EWAD-TZXSB																																							
Cooling capacity		Nom.		190		220		240		270		320		360		420		450		540		570		610		660		680		770		850		910		C10		C11					
Power input	Cooling	Nom.		kW		52.1	63.2	72.5	83.9	100	109	132	144	163	181	191	202	219	226.5	266.1	275.8	303.4	320.1																				
Capacity control	Method			Stepless																																							
	Minimum capacity			%		34	29	34	29	25	17	16	17	16	15	14	13										10																
EER						3.46	3.34	3.30		3.13	3.30	3.16	3.26	3.24	3.11	3.13	3.16	3.09	3.374	3.195	3.306	3.3	3.265																				
ESEER						5.11	5.06	4.99	5.09	5.13	5.14	5.09	5.00	5.07	5.11	5.15	5.09										5.13	5.15	5.22														
IPLV						6.26	6.15	6.19	6.17		6.40	6.30	6.22		6.29	6.31	6.25	6.21	6.26	6.08	6.19	6.29	6.24																				
Dimensions	Unit	Height		mm		2,483																2,482																					
		Width		mm		2,258																																					
		Depth		mm		3,183				4,083				4,983				5,883				6,783				7,683				7,783				8,820				9,591				10,461	
Weight	Unit	kg		2,362		2,409		2,421		2,770		4,292		4,602		4,800		5,072		5,425		6,626		6,542		6,897		7,175		7,500													
		Operation weight		kg		2,388		2,447		2,459		2,820		4,450		4,760		5,055		5,327		5,680		6,927		7,027		7,382		7,660		7,953											
Water heat exchanger	Type			Plate heat exchanger																																							
	Water flow rate			Cooling		Nom.		l/s		8.6	10.1	11.5	13.2	15.0	17.3	20.0	22.6	25.3	27.0	28.7	30.6	32.4	36.6	40.7	43.6	47.9	50																
	Water pressure drop			Cooling		Nom.		kPa		16.4	13.2	16.2	17.1	21.0	34.3	31.2	39.7	36.7	41.1	27.1	30.5	33.3	40.5	33.5	37.5	42.4	34.3																
	Water volume			l		26		37		50		158				255				301				485				453															
Air heat exchanger	Type			Microchannel																																							
Compressor	Type			Inverter driven single screw compressor																																							
	Quantity			1		2																																					
Fan	Type			Direct propeller																																							
	Quantity			6		8		10		12		14		16				18		20		22																					
	Air flow rate			Nom.		l/s		22,664		30,219		37,774		45,328		52,883		60,438				67,993		75,547		83,102																	
	Speed			rpm		700																																					
Sound power level	Cooling		Nom.		dBA		96	97	96	97	98	99				100		101				102																					
Sound pressure level	Cooling		Nom.		dBA		77		78		79				80				79																								
Operation range	Air side		Cooling		Min.-Max.		°CDB		-18~50																																		
	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		36	39	40	51	32	37	40	44.5	48	52	58.5	65	71.5																									
	TCO _{2eq}			51		56	57	73	46	53	57	64	69	74.36	83.655	92.95	102.245																										
Piping connections	Evaporator water inlet/outlet (OD)			88.9mm		114.3mm				139.7mm				168.3mm				6"		8"																							
Unit	Starting current			Max		A																																					
	Running current			Cooling		Nom.		A		110	113	186	192	225	231	371.0	383	392	390	387	395	394	451	469	500	537																	
	Max			A		130	149	166	198	225	256	292	333	358	385	417	450	478	508	562	590	640	694																				
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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