



Air cooled screw inverter chiller, high efficiency, low sound

EWAD-TZXLB



Inverter



Screw compressor

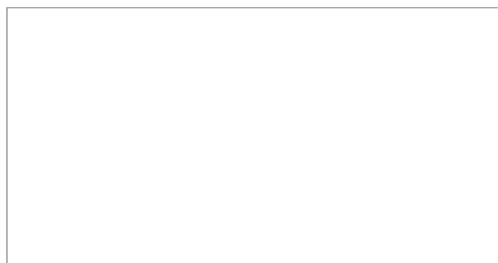
- › High energy efficiency both at full and part load conditions
- › Inverter stepless single-screw compressor with DC electrical motor
- › Advanced compressor technology featuring integrated inverter and variable volume ratio (VVR)
- › Continuous fans speed modulation thanks to inverter driven fans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

EWAD-TZXLB



Cooling only				EWAD-TZXLB																																			
Cooling capacity		Nom.		190		220		240		290		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	Operation weight		kg		2,377	2,424	2,436	2,785	4,322	4,632	4,830	5,102	5,455	6,626	6,542	6,897	7,175	7,500																				
		Water heat exchanger		Type		Plate heat exchanger									Single pass shell & tube						Shell and tube																		
Water heat exchanger	Type	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		91	91.5	91	91.5	92.5	93.5	94		94.5	95	95.5		97																				
Sound pressure level	Cooling		Nom.		dBA		72			73			74	73			74			75																			
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		36.0	39	40	51	32	37	40	44.5	48	52	58.5	65	71.5																					
	TCO ₂ eq					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																																	

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ECPEN17-430-5

03/17



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