



# Air cooled screw inverter chiller, high efficiency, low sound

EWAD-TZXLB



Inverter



Screw compressor

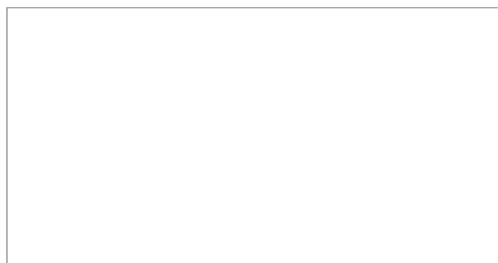
- › High energy efficiency both at full and part load conditions
- › Inverter stepless single-screw compressor with DC electrical motor
- › Advanced compressor technology featuring integrated inverter and variable volume ratio (VVR)
- › Continuous fans speed modulation thanks to inverter driven fans 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	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															
		Operation weight		kg		2,403		2,462		2,474		2,835		4,480		4,790		5,085		5,357		5,710		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		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 <sub>2eq</sub>		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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