



Air cooled  
screw inverter  
chiller, standard  
efficiency,  
reduced sound

EWAD-TZSRB



Inverter



Screw compressor

- › Optimized energy efficiency both at full and part load conditions
- › Inverter stepless single-screw compressor
- › Advanced compressor technology featuring integrated inverter and variable volume ratio (VVR)

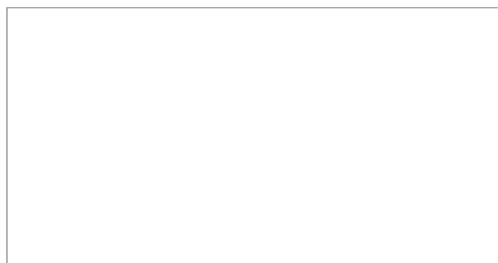
- › Compact design for small footprint and minimized installation space
- › Low operating sound levels are achieved by the latest compressor and fan design

# EWAD-TZSRB



Cooling only				EWAD-TZSRB																																									
Cooling capacity		Nom.		160		190		240		270		300		360		380		450		495		570		610		660		700		820		900		990		C10		C11							
Power input	Cooling	Nom.		kW		169	201	235	269	306	351	394	455	499	569	610	659	700	800	895	956	1,013	1,067																						
Capacity control	Method			Stepless																																									
	Minimum capacity			%		37	31	34	29	25	24	16	17	16	14	13	12											10																	
EER						2.99	2.87	2.83	2.99	2.82	2.95	2.81	2.76	2.85	2.86	2.80	2.74	2.80	3.229	3.043	3.016	3.018	2.973																						
ESEER						4.37	4.46	4.30	4.40	4.42	4.50	4.44	4.43	4.47	4.53	4.61	4.60	4.68	4.8	4.85	4.83	4.98																							
IPLV						5.30	5.27	5.04	5.19	5.37	5.53	5.30	5.26	5.43	5.60	5.61	5.60	5.67	5.92	5.74	5.77	5.75	5.86																						
Dimensions	Unit	Height		mm		2,483																2,482																							
		Width		mm		2,258																																							
		Depth		mm		2,283		3,183		4,083		4,983		5,883		6,783		7,783		8,820		9,591		10,461																					
Weight	Unit	kg		2,166		2,191		2,249		2,475		2,522		2,871		4,244		4,260		4,517		4,803		4,980		5,004		5,274		6,964		6,862		7,217		7,495		7,820							
		Operation weight		kg		2,186		2,217		2,287		2,501		2,560		2,921		4,402		4,424		4,675		4,961		5,250		5,259		5,529		7,247		7,347		7,702		7,980		8,273					
Water heat exchanger	Type			Plate heat exchanger																																									
	Water flow rate			Cooling		Nom.		l/s		8.1		9.6		11.2		12.9		14.6		16.8		18.8		21.7		23.9		27.2		29.2		31.5		33.5		38.3		42.8		45.7		48.5		51	
	Water pressure drop			Cooling		Nom.		kPa		25.0		19.3		15.4		32.6		25.2		25.9		25.8		32.2		43.9		55.5		38.6		32.2		35.9		52.1		36.3		41		45.6		36.3	
	Water volume							l		20		26		37		26		37		50		158		164		158		270		255		283		485		453									
Air heat exchanger	Type			Microchannel																																									
Compressor	Type			Inverter driven single screw compressor																																									
	Quantity			1																																									
Fan	Type			Direct propeller																																									
	Quantity			4																																									
	Air flow rate			Cooling		Nom.		l/s		15,109		22,664		30,219		29,650		36,920		44,475		51,745		59,299		66,570		74,124		81,394															
	Speed							rpm		700																																			
Sound power level	Cooling		Nom.		dBA		86		87		88		90				91		92		94				95																				
Sound pressure level	Cooling		Nom.		dBA		67		68		69		70		70		71		73																										
Operation range	Air side		Cooling		Min.-Max.		°CDB		-18~47														-18~45																						
	Water side		Cooling		Min.-Max.		°CDB		-8~18														-15~20																						
Refrigerant	Type			R-134a																																									
	Circuits		Quantity		1																																								
	GWP			1,430																																									
Refrigerant charge	Per circuit			kg		27		29		33		38		41		52		29		29.5		34		37.5		38.5		41.5		45		52		58.5		65		71.5							
	TCO <sub>2eq</sub>					39		41		47		54		59		74		41		42		49		54		55		59		64		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		0																																					
	Running current			Cooling		Nom.		A		102		123		188		177		188		200		247		374		368		363		378		398		416		422		496		530		561		599	
	Max			A		130		149		160		187		220		246		298		320		350		374		439		466		486		523		585		635		688		745					
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400																																							

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