



Air cooled screw  
inverter chiller,  
premium  
efficiency  
EWAD-TZPS/PR

**R-134a**



Inverter



Screw compressor

- › Premium energy efficiency both at full and part load conditions
- › 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 technology
- › One or two truly independent refrigerant circuits for outstanding reliability

# EWAD-TZPS/PR



Cooling only				EWAD-TZPS/PR															
				190	225	250	270	295	320	345	380	415	460	505	560	600	645		
Cooling capacity	Nom.			kW	185	221	247	271	294	316	339	369	418	452	495	554	598	639	
Power input	Cooling	Nom.		kW	52.7	64.9	69.2	77.4	85.1	94.4	102	110	123	134	146	168	183	200	
Capacity control	Method			Stepless															
	Minimum capacity			%	33.3	28.6	33.3	30.8	28.6	26.7	18.2	16.7	15.4	14.3	16.7	15.4	14.3	13.3	
EER					3.52	3.41	3.57	3.50	3.45	3.35	3.34	3.36	3.38	3.39	3.38	3.30	3.28	3.20	
ESEER					5.50	5.45	5.73	5.66	5.65	5.62	5.46	5.47	5.59	5.61	5.67	5.62	5.53		
IPLV					6.95	6.70	7.22	7.04	7.08	6.81	6.87	7.03	7.05	7.14	7.13	7.11	6.93		
Dimensions	Unit	Height		mm	2,222														
		Width		mm	2,258														
		Depth		mm	3,218	4,117				5,015			5,917			6,817			
Weight	Unit			kg	2,436	2,565	2,810	2,815	3,026	3,031	4,290	4,517	4,764	5,007	5,241	5,269	5,489	5,591	
	Operation weight			kg	2,536	2,591	2,962	2,967	3,076	3,080	4,460	4,687	5,034	5,277	5,511	5,524	5,744	5,838	
Water heat exchanger	Type			Plate heat exchanger															
	Water volume			l	24	26	39		50		170			270			255		
	Water flow rate	Cooling	Nom.	l/s	8.9	10.6	11.8	13.0	14.0	15.1	16.2	17.7	20.0	21.6	23.7	26.5	28.7	30.6	
Water pressure drop			Cooling	Total	kPa	20	23	18	20	18	21	34	41	30	35	26	39	44	50
Air heat exchanger	Type			High efficiency fin and tube type with integral subcooler															
Compressor	Type			Inverter driven single screw compressor															
	Quantity			1				2											
Fan	Type			Direct propeller															
	Quantity			6		8				10			12			14			
	Air flow rate	Cooling	Nom.	l/s	20,172	19,284	26,896		25,712		33,621	32,140	40,345	38,568		47,069	44,996		
Speed			rpm	600															
Sound power level	Cooling	Nom.		dB(A)	96		97		99			100							
Sound pressure level	Cooling	Nom.		dB(A)	77	76		77	79			78	79						
Operation range	Air side	Cooling	Min.-Max.	°CDB	-18~-51														
	Water side	Cooling	Min.-Max.	°CDB	-8~-15														
Refrigerant	Type / GWP			R-134a / 1,430															
	Circuits			1				2											
Refrigerant charge	Per circuit			kg	32.0	38.0	42.0	46.0	50.0	54.0	29.0	31.5	35.5	38.5	42.0	47.0	51.0	54.5	
	TCO <sub>2</sub> eq				45.8	54.3	60.1	65.8	71.5	77.2	41.5	45.0	50.8	55.1	60.1	67.2	72.9	77.9	
Piping connections	Evaporator water inlet/outlet (OD)			88.9mm				139.7mm				168.3mm							
Unit	Starting current			A	3														
	Running current	Cooling	Nom.	A	88	107	115	127	139	156	170	182	204	219	242	274	295	327	
			Max			A	117	137	152	165	179	195	211	232	252	273	302	328	356
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400														

(1) Cooling: entering evaporator water temp. 12°C; leaving evaporator water temp. 7°C; ambient air temp. 35°C; full load operation. | Equipment contains fluorinated greenhouse gases. Actual refrigerant charge depends on the final unit construction, details can be found on the unit labels.

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