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

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MICROTECH III

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						Single pass shell & tube							
	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.		dBA	96				97		99						100	
Sound pressure level	Cooling	Nom.		dBA	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	Quantity			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_2eq	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	Max		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	388
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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