Air cooled screw chiller, standard efficiency, low sound

EWAD-E-SL

R-134a

Screw compressor

- One refrigerant circuit with single screw compressor
- Compact design with brazed plate heat exchanger
- Large operation range (ambient temperature down to -18°C)
- Water supply down to -15°C

EWAD-E-SL

EWAD-E-SL

MicroTech III

Cooling only				EWAD-E-SL	100	120	130	160	180	210	250	300	350	400
Cooling capacity	Nom.			kW	97.6	116	134	157	177	208	248	295	344	397
Power input	Cooling	Nom.		kW	39.2	48.3	53.4	60.8	68.3	72.8	85.4	111	135	152
Capacity control	Method				Stepless									
	Minimum capacity			%	25.0									
EER					2.49	2.39	2.50	2.57	2.59	2.86	2.90	2.65	2.55	2.62
ESEER					2.92	2.88	2.76	2.91	2.98	3.22	3.44	3.31	3.24	3.35
IPLV					3.32	3.21	3.30	3.46	3.28	3.48	3.86	3.75	3.63	3.76
Dimensions	Unit	Height		mm	2,273						2,223			
		Width		mm	1,292						2,236			
		Depth		mm	2,165		3,065		3,965		3,070			
Weight	Unit			kg	1,784		1,961		2,186		3,029			
	Operation weight			kg	1,799		1,981		2,216		3,073			
Water heat exchanger	Type				Plate heat exchanger									
	Water flow rate	Cooling	Nom.	l/s	4.7	5.5	6.4	7.5	8.4	10.0	11.9	14.1	16.5	19.0
	Water pressure drop	Cooling	Nom.	kPa	23		22	23	21	20	45		44	42
	Water volume			l	12	15	17	20	24	30	25	30	36	44
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler									
Compressor	Type				Single screw compressor						Asymmetric single screw compressor			
	Quantity				1									
Fan	Type				Direct propeller									
	Quantity				2		3		4		6			
	Air flow rate	Nom.		l/s	8,373	8,144	12,560	12,216	16,747	16,288	25,120		24,432	
	Speed			rpm	700									
Sound power level	Cooling	Nom.		dBA	89		90			92				93
Sound pressure level	Cooling	Nom.		dBA	71					73				74
Operation range	Air side	Cooling	Min.~Max.	°CDB	-18~48									
	Water side	Cooling	Min.~Max.	°CDB	-15~15									
Refrigerant	Type / GWP				R-134a / 1,430									
	Circuits	Quantity			1									
Refrigerant charge	Per circuit			kg	18.0	21.0	23.0	28.0	34.0	39.0	46.0		56.0	74.0
				TCO_2Eq	25.7	30.0	32.9	40.0	48.6	55.8	65.8		80.1	105.8
Piping connections	Evaporator water inlet/outlet (OD)				3"									
Unit	Starting current	Max		A	151		195		288		330	410		
	Running current	Cooling	Nom.	A	67	83	92	103	116	122	144	184	223	249
		Max		A	83	100	115	128	151	158	189	234	276	290
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400									

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.

Daikin Europe N.V. Naamloze Vennootschap · Zandvoordestraat 300 · 8400 Oostende · Belgium · www.daikin.eu · BE 0412 120 336 · RPR Oostende (Responsible Editor)

ECPEN15-426_2 03/15