DAIKIN APPLIED (UK) LTD

Air cooled screw chiller, standard efficiency, standard sound

EWAD-E-SS

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-SS

EWAD-E-SS

MicroTech III

Cooling only				EWAD-E-SS	100	120	140	160	180	210	260	310	360	410
Cooling capacity	Nom.			kW	101	121	138	163	183	213	255	306	359	411
Power input	Cooling	Nom.		kW	39.1	47.5	53.9	60.9	69.0	72.4	87.8	112	134	147
Capacity control	Method				Stepless									
	Minimum capacity			%	25.0									
EER					2.58	2.54	2.55	2.67	2.64	2.95	2.90	2.73	2.67	2.80
ESEER					2.84	2.83	2.66	2.84	2.73	2.93	3.08	2.96	3.13	3.24
IPLV					3.36	3.25	2.98	3.13	3.25	3.48	3.68	3.56	3.61	3.65
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	1,684		1,861		2,086		2,919			
	Operation weight			kg	1,699		1,881		2,116		2,963			
Water heat exchanger	Type				Plate heat exchanger									
	Water flow rate	Cooling	Nom.	l/s	4.8	5.8	6.6	7.8	8.7	10.2	12.2	14.6	17.2	19.7
	Water pressure drop	Cooling	Nom.	kPa	24	25	23	24	22	21	47	48		45
	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	10,924	10,576	16,386	15,865	21,848	21,153	32,772		31,729	
	Speed			rpm	900									
Sound power level	Cooling	Nom.		dBA	92				93		94			95
Sound pressure level	Cooling	Nom.		dBA	74						75			76
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
	Per circuit			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	81	92	102	116	121	148	185	220	241
		Max		A	86	103	119	132	157	164	198	242	284	298
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.

London Sales Office
69 Questor Estate
Pearsons Way
Dartford, Kent
DA1 1JN
01322 424950

Head Office
Bassington Industrial Estate
Cramlington, Northumberland
NE23 8AF
01670 566159