



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



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			
Sound power level	Cooling	Nom.		dBA		92		93		94		95					
		Sound pressure level		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 ₂ Eq		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		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.

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