



Air cooled screw chiller, standard efficiency, extra low sound

EWAD-D-SX

R-134a



Screw compressor

- › 2 truly independent refrigerant circuits
- › Stepless single-screw compressor
- › Optimised for use with R-134a

- › Large operation range (ambient temperature down to -18°C)
- › MicroTech III controller with superior control logic and easy interface

EWAD-D-SX



Cooling only				EWAD-D-SX											
				210	230	250	270	290	300	310	370	410	450	490	
Cooling capacity	Nom.	kW		202	230	252	270	285	298	308	369	412	449	490	
Power input	Cooling	kW		80.8	86.0	94.4	105	115	127	137	150	171	175	189	
Capacity control	Method	Stepless													
	Minimum capacity	%		12.5											
EER				2.50	2.68	2.67	2.56	2.47	2.35	2.25	2.46	2.41	2.56	2.60	
ESEER				3.29	3.52	3.41	3.44	3.34	3.29	3.15	3.14	3.39	3.50	3.47	
IPLV				3.82	4.08	3.99	4.01	3.92	3.84	3.69	4.03	3.90	3.98	3.90	
Dimensions	Unit	Height	mm	2,420											
		Width	mm	2,234											
		Depth	mm	3,139	4,040						4,940				
Weight	Unit	kg		3,110	3,475		3,425		3,430		3,560	4,302	4,506	4,581	
	Operation weight	kg		3,200		3,590				3,735		4,472	4,676	4,746	
Water heat exchanger	Type	Single pass shell & tube													
	Water flow rate	Cooling	Nom.	l/s	9.7	11.0	12.1	12.9	13.7	14.3	14.7	17.7	19.7	21.5	23.5
	Water pressure drop	Cooling	Nom.	kPa	45	34	38		35	38	41	45	44	50	45
	Water volume	l		90	115		165		160		175	170		165	
Air heat exchanger	Type	High efficiency fin and tube type with integral subcooler													
Compressor	Type	Single screw compressor											Asymmetric single screw compressor		
	Quantity	2													
Fan	Type	Direct propeller													
	Quantity			6	8						9		10		
	Air flow rate	Cooling	Nom.	l/s	12,876	17,892	17,169				26,496		28,982	33,120	
	Speed	rpm		500											
Sound power level	Cooling	Nom.		dB(A)	84	85						86			
Sound pressure level	Cooling	Nom.		dB(A)	2.60									2.60	
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		2											
Refrigerant charge	Per circuit	kg		21.0	24.0	26.0	32.0	33.0	34.0		35.0	38.0	40.0		
		TCO ₂ Eq		30.0	34.3	37.2	45.8	47.2	48.6		50.1	54.3	57.2		
Piping connections	Evaporator water inlet/outlet (OD)			4"						5"					
Unit	Starting current	Max		A	218	232		276	284		296		406	457	475
	Running current	Cooling	Nom.	A	135	143	157	173	188	204	220	231	272	280	298
		Max		A	164	183	199	210	221	235	250	291	316	338	360
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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