

Air cooled screw chiller, standard efficiency, low sound

EWAD-D-SL



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-SL



Cooling only				EWAD-D-SL																					
				180	200	230	250	260	280	300	320	370	400	440	480	510	530								
Cooling capacity	Nom.	kW		183	197	224	244	260	274	297	320	368	402	438	475	503	531								
Power input	Cooling	kW		82.0	80.2	85.6	94.4	102	109	121	125	135	171	172	188	205	197								
Capacity control	Method	Stepless																							
	Minimum capacity	%		12.5																					
EER				2.24	2.46	2.62	2.58	2.54	2.50	2.46	2.56	2.72	2.36	2.55	2.53	2.46	2.70								
ESEER				2.91	3.03	3.21	3.11	3.16	3.13	3.10	3.14	3.31	3.54	3.56	3.46	3.56	3.66								
IPLV				3.43	3.56	3.73	3.63	3.66	3.63	3.59	3.62	3.84	3.85	4.06	3.96	4.07	4.14								
Dimensions	Unit	Height	mm	2,355												2,223									
		Width	mm	2,234						4,040															
		Depth	mm	2,239				3,139				4,040													
Weight	Unit	kg		2,475				2,470				2,860				3,187		4,030		4,220		4,230		4,235	
	Operation weight	kg		2,500				2,960				3,300				4,195		4,395							
Water heat exchanger	Type				Plate heat exchanger				Single pass shell & tube																
	Water flow rate	Cooling	Nom.	l/s	8.8	9.4	10.7	11.7	12.5	13.1	14.2	15.3	17.7	19.3	21.0	22.8	24.1	25.4							
	Water pressure drop	Cooling	Nom.	kPa	29	22	58	49	54	59	60	55	67	48	62	54	48	43							
	Water volume				l	25	30	100						130		165		170		165		160			
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	4				6				8				6				8							
	Air flow rate	Nom.	l/s	15,295	14,868	22,943	22,623	22,302	30,591	24,432	33,493	32,576													
Sound power level	Cooling	Nom.	dBA	94						95	97	94				96									
	Sound pressure level	Cooling	Nom.	dBA	75						78	75	76		77										
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		18.0	21.0	23.0	26.0	28.0	29.0	35.0	36.0	34.0	40.0	43.0											
		TCO ₂ Eq		25.7	30.0	32.9	37.2	40.0	41.5	50.1	51.5	48.6	57.2	61.5											
Piping connections	Evaporator water inlet/outlet (OD)	3"				4"				5"															
	Unit	Starting current	Max	A	218				234	277	286	298	300	305	460	480		488							
	Running current	Cooling	Nom.	A	135	133	141	155	166	176	192	200	214	281	285	308	334	323							
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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