

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				3,187		4,030		4,220		4,230		4,235						
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		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						
Air heat exchanger	Type	High efficiency fin and tube type with integral subcooler																						
	Compressor	Type	Single screw compressor												Asymmetric single screw compressor									
Fan	Quantity	2																						
	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						
	Speed	rpm			900								705											
Sound power level	Cooling	Nom.		94				95				97		94		96								
Sound pressure level	Cooling	Nom.		75				78				75		76		77								
Operation range	Air side	Cooling	Min.-Max.	-18~-48																				
	Water side	Cooling	Min.-Max.	-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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