

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

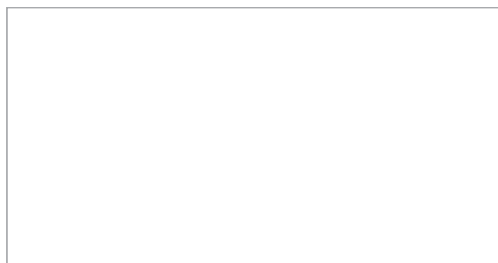
EWAD-D-SL



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	Nom.	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	2,239						3,139						4,040			
		Depth	mm	2,234															
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				
	Speed		rpm	900															
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.	-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	
	Max		A	165	186	202	213	224	238	258	269	322	348	368	379				
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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