



Air cooled screw chiller, standard efficiency, reduced sound

EWAD-D-SR



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-SR



Cooling only				EWAD-D-SR	180	190	220	240	250	270	280	310	370	400	440	480	510	530					
Cooling capacity	Nom.		kW	177	190	218	237	251	263	277	310	364	402	438	475	503	531						
Power input	Cooling	Nom.	kW	84.5	83.1	86.2	95.6	104	112	123	127	140	171	172	188	205	197						
Capacity control	Method			Stepless																			
	Minimum capacity		%	12.5																			
EER				2.09	2.28	2.53	2.48	2.41	2.34	2.25	2.45	2.60	2.36	2.55	2.53	2.46	2.70						
ESEER				2.80	2.91	3.24	3.11	3.13	3.07	3.04	3.15	3.32	3.54	3.56	3.46	3.56	3.66						
IPLV				3.29	3.42	3.74	3.59			3.56	3.53	3.70	3.88	3.90	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	2,620				2,890				3,335		4,040		4,240							
	Operation weight		kg	2,650				3,100				3,450		4,342		4,542							
Water heat exchanger	Type			Plate heat exchanger				Single pass shell & tube															
	Water flow rate	Cooling	Nom.	l/s	8.5	9.1	10.4	11.3	12.0	12.6	13.3	14.9	17.4	19.3	21.0	22.8	24.1	25.4					
	Water pressure drop	Cooling	Nom.	kPa	27	20	55	47	51	55	53	65	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	12,389	11,928	18,583		18,237		17,892		24,777		24,432		33,493				32,576			
	Speed		rpm	680																			
Sound power level	Cooling	Nom.	dBA	89						90		92		91				92		93			
Sound pressure level	Cooling	Nom.	dBA	2.70 (1))																			
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	24.0	25.0				29.0		33.0	35.0	40.0	39.0	40.0	43.0					
			TCO ₂ Eq	25.7	30.0	34.3	35.8				41.5		47.2	50.1	57.2	55.8	57.2	61.5					
Piping connections	Evaporator water inlet/outlet (OD)			3"				4"				5"											
	Unit		A	217				232		275	284	295	297	302	460	480		488					
	Running current	Cooling	Nom.	A	140	138	143	157	169	181	199	203	219	281	285	308	334	323					
		Max	A	162				182	198	209	219	234	252	263	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.

Daikin Europe N.V. Naamloze Vennootschap · Zandvoordestraat 300 · 8400 Oostende · Belgium · www.daikin.eu · BE 0412 120 336 · RPR Oostende (Responsible Editor)



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