

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		2,234						4,040							
		Depth	mm		2,239		3,139				3,335		4,040		4,240			
Weight	Unit		kg		2,620				2,890				3,335		4,040			
	Operation weight		kg		2,650				3,100				3,450		4,342			
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.	dB(A)		89						90	92	91		92	93		
	Sound pressure level	Nom.	dB(A)		2.70 (1))						2.70 (1))	2.70 (1))	2.70 (1))		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	Starting current	Max	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.

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