



Air cooled screw  
chiller, high  
efficiency,  
reduced sound

EWAD-D-XR

**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)

# EWAD-D-XR



Cooling only				EWAD-D-XR	240	270	300	320	350	370	390	460	510	560	600
Cooling capacity	Nom.		KW		242	271	294	321	343	369	393	453	510	559	598
Power input	Cooling	Nom.	KW		81.6	88.0	96.3	107	117	121	129	154	169	185	200
Capacity control	Method	Stepless													
	Minimum capacity	12.5													
EER					2.96	3.07	3.06	3.00	2.94	3.06	3.05	2.95	3.01	3.02	2.99
ESEER					3.52	3.59	3.58	3.71	3.60	3.89	3.71	3.77	3.99		3.81
IPLV					4.03	4.11	4.12	4.17	4.13	4.28	4.25	4.36	4.79	4.78	4.47
Dimensions	Unit	Height	mm	2,355								2,223			
		Width	mm	2,234											
		Depth	mm	3,138	4,040						4,940				
Weight	Unit		kg	3,005	3,385		3,335		3,340		3,610	4,770	4,785		
	Operation weight		kg	3,100	3,500						3,880	5,040			
Water heat exchanger	Type	Single pass shell & tube													
	Water flow rate	Cooling	Nom.	l/s	11.6	13.0	14.1	15.4	16.4	17.7	18.8	21.7	24.4	26.8	28.6
	Water pressure drop	Cooling	Nom.	kPa	47	44	48	45	49	56		45	60	54	36
	Water volume			l	95	115		165		160		270		255	
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			6	8						10				
	Air flow rate	Nom.	l/s	17,892	24,777	23,856				33,035	32,576	33,493	41,867		
	Speed		rpm	680						705					
Sound power level	Cooling	Nom.	dBA	92						93		94			
Sound pressure level	Cooling	Nom.	dBA	73						74					
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	30.0	31.0	38.0	39.0	40.0	39.0		34.0	45.0	47.0	50.0	
			TCO <sub>2</sub> Eq	42.9	44.3	54.3	55.8	57.2	55.8		48.6	64.4	67.2	71.5	
Piping connections	Evaporator water inlet/outlet (OD)	4"													
Unit	Starting current	Max	A	222	237		280	289	306		417	473	491		
	Running current	Cooling	Nom.	A	134	144	160	175	188	200	213	256	283	308	330
		Max	A	173	193	210	222	233	257	272	317	351	373	396	
Power supply	Phase/Frequency/Voltage		Hz/V	3~/50/400											

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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