



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	KW			81.6	88.0	96.3	107	117	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	2,355								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.	dB(A)	92				93				94					
Sound pressure level	Cooling	Nom.	dB(A)	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		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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