



Air cooled screw
chiller with free
cooling, high
efficiency,
standard/low
sound

EWAD-CFXS/XL

R-134a



Free cooling

- › Free cooling chiller for space cooling and industrial processes
- › Steplless single-screw compressor



Screw compressor

- › Greater energy savings and reduced CO₂ emissions during cold season
- › Wide operating range

EWAD-CFXS/XL



Cooling only				EWAD-CFXS/XL												
				640	770	850	900	C10	C11	C12	C13	C14	C15	C16		
Cooling capacity	Nom.			kW	640 (1)	772 (1)	852 (1)	902 (1)	1,027 (1)	1,089 (1)	1,269 (1)	1,349 (1)	1,435 (1)	1,493 (1)	1,555 (1)	
Free cooling capacity	Nom.			kW	415 (2)	510 (2)	583 (2)	612 (2)	701 (2)	734 (2)	902 (2)	957 (2)	963 (2)	1,013 (2)	1,039 (2)	
Mechanical capacity				kW	225 (2)	262 (2)	269 (2)	290 (2)	325 (2)	355 (2)	366 (2)	392 (2)	472 (2)	480 (2)	517 (2)	
Air temperature for free cooling	100%			°C	-0.8	-0.1	1.2	0.4	0.9	0.1	2.9	2.1	1.3	0.7	0.1	
Power input	Cooling	Nom.		kW	257 (1) / 53.7 (2)	272 (1) / 62.0 (2)	293 (1) / 64.7 (2)	324 (1) / 69.8 (2)	360 (1) / 75.7 (2)	399 (1) / 83.4 (2)	397 (1) / 86.4 (2)	439 (1) / 92.8 (2)	454 (1) / 101 (2)	492 (1) / 109 (2)	530 (1) / 115 (2)	
Capacity control	Method			Stepless												
	Minimum capacity			%	12.5											
EER					2.49 (1) / 11.91 (2)	2.84 (1) / 12.44 (2)	2.90 (1) / 13.17 (2)	2.78 (1) / 12.93 (2)	2.85 (1) / 13.56 (2)	2.73 (1) / 13.05 (2)	3.19 (1) / 14.68 (2)	3.08 (1) / 14.55 (2)	3.16 (1) / 14.21 (2)	3.04 (1) / 13.72 (2)	2.93 (1) / 13.50 (2)	
ESEER					3.44	3.52	3.78	3.50	3.74	3.54	3.88	3.78	4.01	3.96	3.85	
IPLV					3.86	4.03	4.10	4.05	4.00	3.95	4.36	4.25	4.36	4.35	4.26	
Dimensions	Unit	Height	mm	2,565												
		Width	mm	2,480												
		Depth	mm	6,300	7,200	8,100	9,000	10,800								
Weight (XS)	Unit			kg	7,760	8,340	8,900	10,160	10,420	11,900			12,540	12,620	12,670	
	Operation weight			kg	8,515	9,100	9,705	11,169	11,429	13,276			14,516	14,596	14,646	
Weight (XL)	Unit			kg	8,050	8,620	9,190	10,450	10,710	12,190			12,830	12,910	12,960	
	Operation weight			kg	8,795	9,390	9,995	11,459	11,719	13,566			14,806	14,886	14,936	
Water heat exchanger	Type			Single pass shell & tube												
	Water volume			l	741	771	808	1,012	1,372			1,965				
	Water flow rate	Cooling	Nom.	l/s	27.8 (1) / 27.8 (2)	33.5 (1) / 33.5 (2)	37.0 (1) / 37.0 (2)	39.2 (1) / 39.2 (2)	44.6 (1) / 44.6 (2)	47.3 (1) / 47.3 (2)	55.1 (1) / 55.1 (2)	58.6 (1) / 58.6 (2)	62.4 (1) / 62.4 (2)	64.9 (1) / 64.9 (2)	67.6 (1) / 67.6 (2)	
	Water pressure drop	Cooling	Nom.	kPa	85 (1) / 128 (2)	105 (1) / 172 (2)	90 (1) / 178 (2)	101 (1) / 198 (2)	111 (1) / 245 (2)	124 (1) / 272 (2)	98 (1) / 232 (2)	110 (1) / 259 (2)	139 (1) / 305 (2)	150 (1) / 328 (2)	162 (1) / 354 (2)	
Air heat exchanger	Type			High efficiency fin and tube type with integral subcooler												
Compressor	Type			Asymmetric single screw compressor												
	Quantity			2												
Fan	Type			Direct propeller												
	Quantity			20												
	Air flow rate	Nom.		l/s	50,368	60,441	70,515	80,588	95,253							
	Speed			rpm	920											
Sound power level (XS)	Cooling	Nom.		dBA	100	101			102			103				
Sound power level (XL)	Cooling	Nom.		dBA	96	97			98			99				
Sound pressure level (XS)	Cooling	Nom.		dBA	79	80			81			80				
Sound pressure level (XL)	Cooling	Nom.		dBA	76			77								
Operation range	Water side	Cooling	Min.-Max.	°CDB	-8~-15											
	Air side	Cooling	Min.-Max.	°CDB	-20~-45											
Refrigerant	Type / GWP			R-134a / 1,430												
	Circuits			2												
Refrigerant charge	Per circuit			kg	64.0	73.0	81.0	91.0	107.0			112.5	124.0			
	Per circuit			TCO ₂ Eq	91.5	104.4	115.8	130.1	153.0			160.9	177.3			
Piping connections	Evaporator water inlet/outlet (OD)			DN150PN16(168.3mm) DN200PN16(219.1mm) DN250PN16(273mm)												
Unit	Maximum starting current			A	605	619	658	924	971	1,030			1,073	1,086		
	Nominal running current (RLA)	Cooling		A	404	430	467	515	568	628	636	701	720	773	825	
	Maximum running current			A	476	510	561	605	672	731	811	875		929	982	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400											

(1) Cooling: entering evaporator water temp. 16°C; leaving evaporator water temp. 10°C; ambient air temp. 35°C; full load operation.

(2) Data is calculated at ambient air temperature 5°C, inlet water temperature 16°C.

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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