



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
- › Stepless 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		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		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	Quantity		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.

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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