



Air cooled screw
chiller with free
cooling, high
efficiency,
reduced sound

EWAD-CFXR

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-CFXR



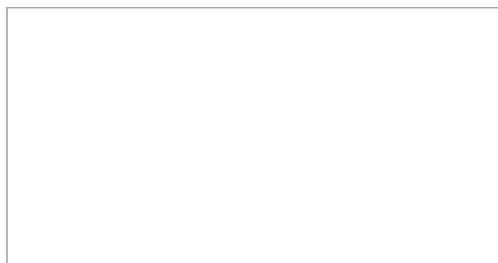
Cooling only				EWAD-CFXR												
				600	740	820	870	980	C10	C11	C12	C13	C14	C15		
Cooling capacity	Nom.			kW	602 (1)	739 (1)	821 (1)	866 (1)	981 (1)	1,034 (1)	1,229 (1)	1,302 (1)	1,374 (1)	1,424 (1)	1,476 (1)	
Free cooling capacity	Nom.			kW	374 (2)	468 (2)	539 (2)	562 (2)	644 (2)	670 (2)	825 (2)	866 (2)	889 (2)	909 (2)	929 (2)	
Mechanical capacity				kW	228 (2)	271 (2)	282 (2)	304 (2)	337 (2)	364 (2)	404 (2)	435 (2)	486 (2)	515 (2)	547 (2)	
Air temperature for free cooling	100%			°C	-2.3	-1.9	-0.6	-1.5	-0.9	-1.7	0.7	-0.2	-1.1	-1.6	-2.3	
Power input	Cooling	Nom.		kW	263 (1) / 46.6 (2)	278 (1) / 56.2 (2)	299 (1) / 58.5 (2)	334 (1) / 63.1 (2)	368 (1) / 68.5 (2)	412 (1) / 74.4 (2)	403 (1) / 80.0 (2)	450 (1) / 87.5 (2)	466 (1) / 93.4 (2)	511 (1) / 103 (2)	556 (1) / 109 (2)	
Capacity control	Method			Stepless												
	Minimum capacity			%	12.5											
EER					2.29 (1) / 12.91 (2)	2.66 (1) / 13.17 (2)	2.75 (1) / 14.04 (2)	2.59 (1) / 13.71 (2)	2.67 (1) / 14.33 (2)	2.51 (1) / 13.89 (2)	3.05 (1) / 15.36 (2)	2.90 (1) / 14.87 (2)	2.95 (1) / 14.7(2)	2.79 (1) / 13.85 (2)	2.66 (1) / 13.56 (2)	
ESEER					3.59	3.66	3.89	3.62	3.83	3.63	4.13	3.89	4.09	4.02	3.92	
IPLV					4.09	4.15	4.16	4.20	4.10	4.08	4.42	4.37	4.42	4.28	4.28	
Dimensions	Unit	Height	mm	2,565												
		Width	mm	2,480												
		Depth	mm	6,300	7,200	8,100	9,000	10,800								
Weight	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	26.2 (1) / 26.2 (2)	32.1 (1) / 32.1 (2)	35.7 (1) / 35.7 (2)	37.6 (1) / 37.6 (2)	42.6 (1) / 42.6 (2)	44.9 (1) / 44.9 (2)	53.4 (1) / 53.4 (2)	56.6 (1) / 56.6 (2)	59.7 (1) / 59.7 (2)	61.9 (1) / 61.9 (2)	64.1 (1) / 64.1 (2)	
	Water pressure drop	Cooling	Nom.	kPa	76 (1) / 115 (2)	97 (1) / 159 (2)	84 (1) / 167 (2)	93 (1) / 184 (2)	102 (1) / 225 (2)	113 (1) / 248 (2)	92 (1) / 219 (2)	103 (1) / 243 (2)	128 (1) / 282 (2)	137 (1) / 301 (2)	146 (1) / 321 (2)	
Air heat exchanger	Type			High efficiency fin and tube type with integral subcooler												
Compressor	Type			Asymm single screw												
	Quantity			2												
Fan	Type			Direct propeller												
	Quantity			10	12	14	16	20								
	Air flow rate	Nom.		l/s	38,935	46,722	54,508	62,295	73,011							
	Speed			rpm	715											
Sound power level	Cooling	Nom.		dB(A)	92				94				95			
Sound pressure level	Cooling	Nom.		dB(A)	71	72				73	72				73	
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	598	611	648	912	960	1,016				1,059	1,072	
	Nominal running current (RLA)	Cooling		A	411	439	473	526	580	647	645	717	738	800	862	
	Maximum running current			A	462	493	542	585	649	708	783	847	901	954		
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)



ECPEN15-431_2 03/15



Daikin Europe N.V. participates in the Eurovent Certification programme for Liquid Chilling Packages (LCP), Air handling units (AHU), Fan coil units (FCU) and variable refrigerant flow systems (VRF) Check ongoing validity of certificate online: www.eurovent-certification.com or using: www.certiflash.com



The present leaflet is drawn up by way of information only and does not constitute an offer binding upon Daikin Europe N.V. Daikin Europe N.V. has compiled the content of this leaflet to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin Europe N.V. explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this leaflet. All content is copyrighted by Daikin Europe N.V.