



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 CO<sub>2</sub> 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.				92			94			95			
Sound pressure level	Cooling	Nom.		dBA	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 <sub>2</sub> 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.

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