



Air cooled  
multi-scroll chiller,  
high efficiency,  
reduced sound

EWAQ-F-XR

**R-410A**



Scroll compressor

- › Reliable and efficient scroll compressors with high EER values
- › A series of advantages thanks to the use of large-capacity scroll compressors: increased competitiveness, reduced weight, clearances around the unit
- › 2 truly independent refrigerant circuits
- › Reduced footprint thanks to the V-shaped frame
- › Large operation range: ambient temperatures up to 52°C and down to -18°C

# EWAQ-F-XR



Cooling only				EWAQ-F-XR															
				170	190	210	240	300	310	330	340	390	410	430	500	580	650		
Cooling capacity	Nom.	kW		165	188	211	236	304		340		385	407	433	502	579	645		
Power input	Cooling	kW		53.0	61.2	68.7	77.3	101		117		128	136	146	170	200	219		
Capacity control	Method	Step																	
	Minimum capacity	%		25.0	21.0	25.0	22.0	23.0		25.0		21.0	20.0	25.0	17.0	14.0	17.0		
EER				3.12	3.07	3.08	3.05	3.00		2.92		3.01	2.99	2.96		2.90	2.95		
ESEER				4.53	4.64	4.51	4.60	4.53	4.68	4.44	4.63	4.68	4.64	4.54	4.82	4.69	4.65		
IPLV				5.25	5.04	5.19	5.27	5.04	5.16	5.01	4.89	5.04	4.90	4.99	5.13	5.15	5.18		
Dimensions	Unit	Height	mm	2,271				2,221		2,271		2,221							
		Width	mm	1,224				2,258		1,224		2,258							
		Depth	mm	4,413		5,313		6,213	3,210	6,213	3,210		4,110		5,010		5,910		
Weight	Unit	kg		2,004	2,303	2,580	2,722	2,900	3,000	3,045	3,145	3,168	3,280	3,298	4,120	4,228	4,655		
	Operation weight	kg		2,017	2,317	2,594	2,736	2,914	3,014	3,085	3,185	3,208	3,326	3,344	4,166	4,288	4,716		
Water heat exchanger	Type	Plate heat exchanger																	
	Water volume	l		12	14				40				46		60				
	Water flow rate	Cooling	Nom.	l/s	7.9	9.0	10.1	11.3	14.5		16.3		18.4	19.5	20.7	24.0	27.7	30.9	
	Water pressure drop	Cooling	Nom.	kPa	24	25	31	39				21		28	26	27	38	40	51
Air heat exchanger	Type	High efficiency fin and tube type with integral subcooler																	
Compressor	Type	Scroll compressor																	
	Quantity	4												6					
Fan	Type	Direct propeller																	
	Quantity	4				5				6				8		10		12	
	Air flow rate	Nom.	l/s	16,743	16,285	20,618	19,522	24,428		23,426		32,570	31,235	39,044		46,852			
	Speed	rpm		705															
Sound power level	Cooling	Nom.	dB(A)	83	84	85	86	87				89		90	89	90	92		
Sound pressure level	Cooling	Nom.	dB(A)	64	65	66	67		68	67	68	69	70		69	70	71		
Operation range	Water side	Cooling	Min.-Max.	°CDB															
	Air side	Cooling	Min.-Max.	°CDB															
				-13~18															
				-18~52															
Refrigerant	Type / GWP	R-410A / 2,087.5																	
	Circuits	Quantity		2															
Refrigerant charge	Per circuit	kg		14.0	15.5	16.5	20.0	24.0	26.0		31.0		35.0		36.0	41.5			
	Per circuit	TCO <sub>2</sub> Eq		29.2	32.4	34.4	41.8	50.1	54.3		64.7		73.1		75.2	86.6			
Piping connections	Evaporator water inlet/outlet (OD)			3"															
Unit	Maximum starting current	A		276	332	346	401	472		501		618	632	646	628	754	801		
	Nominal running current (RLA)	Cooling	A	107	116	125	139	180		204		226	239	255	300	347	380		
	Maximum running current	A		132	143	157	173	220		249		283	296	310	377	419	465		
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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CEPEN15-424\_4 03/15



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