



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	Nom.	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		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	3,344	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				-13~-18															
	Air side	Cooling	Min.-Max.	°CDB				-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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