



Air cooled
multi-scroll heat
pump, high
efficiency,
reduced sound

EWYQ-F-XR

R-410A



Scroll compressor

- › Class A efficiency in heating mode
- › Extended operation range: ambient temperatures from -10°C up to +46°C in cooling mode and down to -17°C in heating mode
- › 2 truly independent refrigerant circuits
- › Reduced footprint thanks to the V-shaped frame
- › Reliable and efficient scroll compressors with high EER values
- › Top serviceability level thanks to reduced weight, compact footprint and optimized components accessibility
- › Inverter fans management for enhanced part load efficiencies

EWYQ-F-XR



Heating & Cooling				EWYQ-F-XR	160	180	200	220	300	330	360	390	420	490	550	610	
Cooling capacity	Nom.			kW	158 (1)	178 (1)	199 (1)	223 (1)	296 (1)	326 (1)	363 (1)	389 (1)	415 (1)	487 (1)	546 (1)	606 (1)	
Heating capacity	Nom.			kW	173	197	227	254	329	362	404	429	463	535	607	674	
Power input	Cooling	Nom.		kW	56.2 (1)	62.3 (1)	68.4 (1)	77.9 (1)	97.4 (1)	111 (1)	127 (1)	134 (1)	141 (1)	167 (1)	191 (1)	210 (1)	
	Heating	Nom.		kW	54.0	61.6	70.5	79.2	101	113	126	133	140	167	190	210	
Capacity control	Method			Step													
	Minimum capacity			%	25.0										17.0		
EER					2.81 (1)	2.86 (1)	2.92 (1)	2.87 (1)	3.04 (1)	2.93 (1)	2.86 (1)	2.90 (1)	2.93 (1)	2.91 (1)	2.85 (1)	2.89 (1)	
ESEER					4.33	4.39	4.38	4.19	4.63	4.68	4.37	4.44	4.60	4.83	4.50	4.62	
COP					3.20		3.22	3.21	3.24	3.21		3.23	3.30	3.21	3.20	3.21	
SCOP					2.78	2.85	2.81	2.80	2.87	2.89		2.84	2.90	2.83	2.82	2.84	
IPLV					5.11	5.18	5.22	4.96	5.25	5.35	4.97	5.08	5.25	5.54	5.13	5.36	
Dimensions	Unit	Height	mm	2,270					2,220								
		Width	mm	1,200					2,258								
		Depth	mm	4,370		5,270		4,125		5,025		5,925		6,825			
Weight	Unit			kg	1,520	1,940	2,400	2,440	3,060	3,070	3,080	3,890	3,900	4,400	4,440	4,820	
		Operation weight		kg	1,570	1,980	2,440	2,480	3,130	3,150	3,160	3,990	4,010	4,520	4,550	4,940	
Water heat exchanger	Type			Plate heat exchanger													
	Water flow rate	Cooling	Nom.	l/s	7.5	8.5	9.6	10.7	14.2	15.6	17.4	18.6	19.8	23.3	26.1	29.0	
		Heating	Nom.	l/s	8.3	9.5	10.9	12.2	15.9	17.5	19.5	20.7	22.3	25.8	29.3	32.5	
	Water pressure drop	Cooling	Nom.	kPa	20	26	34	38	20	25	28	27	32	35	39	53	
		Heating	Nom.	kPa	25	32	43	50	25	31	37	33	40	43	50	66	
Water volume				l	18			44			60		70				
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		8		10		12		14			
	Air flow rate	Nom.		l/s	17,380	16,564	20,706		33,129		42,431	41,411	49,693		57,975		
Speed				rpm	700												
Sound power level	Cooling	Nom.		dBA	83	84	86		88	89	90		92				
Sound pressure level	Cooling	Nom.		dBA	64	65	66	67	69		70		71				
Operation range	Air side	Cooling	Min.~Max.	°CDB	-10~-46												
		Heating	Min.~Max.	°CDB	-17~-20												
	Water side	Cooling	Min.~Max.	°CDB	-13~-15												
		Heating	Min.~Max.	°CDB	25~50												
Refrigerant	Type/GWP			R-410A / 2,087.5													
	Circuits			Quantity	2												
Refrigerant charge	Per circuit			kg	16.0	18.0	20.0	24.0	35.0	36.0	35.0	46.0		55.0		68.0	
	Per circuit			TCO ₂ Eq	33.4	37.6	41.8	50.1	73.1	75.2	73.1	96.0		114.8		142.0	
Piping connections	Evaporator water inlet/outlet (OD)			2.5"					3"								
Unit	Starting current	Max		A	276	530	346	553	589	505	626	645	652	631	770	807	
	Running current	Cooling	Nom.	A	114	138	126	160	187	201	232	245	252	301	350	379	
		Max		A	133	160	157	189	235	253	283	302	316	379	425	471	
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400												

(1) 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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