



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													
		Heating	Min.~Max.	°CDB													
	Water side	Cooling	Min.~Max.	°CDB													
		Heating	Min.~Max.	°CDB													
Refrigerant	Type/GWP	R-410A / 2,087.5															
Refrigerant charge	Circuits		Quantity														
	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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