



Air cooled  
multi-scroll  
heat pump,  
high efficiency,  
standard/low  
sound

EWYQ-F-XS/XL

**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-XS/XL



Heating & Cooling				EWYQ-F-XS/XL															
				160	190	210	230	310	340	380	400	430	510	570	630				
Cooling capacity	Nom.			kW	164 (1)	184 (1)	205 (1)	231 (1)	304 (1)	335 (1)	376 (1)	401 (1)	427 (1)	502 (1)	565 (1)	624 (1)			
Heating capacity	Nom.			kW	173	197	227	254	329	362	404	429	463	535	607	674			
Power input	Cooling	Nom.			kW	57.6 (1)	63.3 (1)	70.3 (1)	79.3 (1)	102 (1)	114 (1)	129 (1)	138 (1)	145 (1)	172 (1)	195 (1)	214 (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						2.84 (1)	2.91 (1)	2.92 (1)	2.99 (1)	2.93 (1)	2.91 (1)	2.90 (1)	2.94 (1)	2.92 (1)	2.90 (1)	2.91 (1)			
ESEER						3.73	3.89	3.81	3.71	4.07	4.19	3.99	3.96	4.14	4.20	3.98	4.06		
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		2.84	2.90	2.83	2.82	2.82	2.84		
IPLV						4.45	4.47	4.55	4.38	4.56	4.61	4.38	4.50	4.70	4.71	4.56	4.74		
Dimensions	Unit	Height			mm	2,270						2,220							
		Width			mm	1,200						2,258							
		Depth			mm	4,370			5,270			4,125			5,925			6,825	
Weight (XS)	Unit			kg	1,430	1,850	2,300	2,350	2,900	2,910	2,920	3,730	3,750	4,250	4,280	4,670			
		Operation weight		kg	1,470	1,890	2,340	2,390	2,980	2,990	3,000	3,840	3,850	4,370	4,400	4,780			
Weight (XL)	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 volume			l	18				44			60			70			
		Water flow rate	Cooling	Nom.	l/s	7.8	8.8	9.8	11.1	14.6	16.0	18.0	19.2	20.4	24.0	27.1	29.9		
			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	22	28	36	40	21	27	30	29	34	37	42	56				
	Heating	Nom.	kPa	25	32	43	50	25	31	37	33	40	43	50	66				
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	22,577	21,593	26,992			43,187			55,213		53,983		64,780		75,577	
Sound power level (XS)	Cooling	Nom.			900														
			dBA	92	94	95			97		98		99			100			
Sound power level (XL)	Cooling	Nom.			900														
			dBA	89	92	93			95			96			97		98		
Sound pressure level (XS)	Cooling	Nom.			900														
			dBA	72	74	75	76	77		78			79			80			
Sound pressure level (XL)	Cooling	Nom.			900														
			dBA	70	73			74			75			76		77			
Operation range	Water side	Cooling	Min.-Max.			-13~15													
		Heating	Min.-Max.			25~50													
	Air side	Cooling	Min.-Max.			-10~46													
		Heating	Min.-Max.			-17~20													
Refrigerant	Type / GWP			R-410A / 2,087.5															
	Circuits	Quantity			2														
Refrigerant charge	Per circuit			kg	16.0	20.0	24.0	35.0	36.0	35.0	46.0	55.0	52.5	68.0					
	Per circuit			TCO <sub>Eq</sub>	33.4	41.8	50.1	73.1	75.2	73.1	96.0	114.8	109.6	142.0					
Piping connections	Evaporator water inlet/outlet (OD)			2.5"						3"									
Unit	Maximum starting current		A	282	536	353	560	600	516	637	659	666	648	787	827				
	Nominal running current (RLA)	Cooling	A	115	140	128	162	193	205	235	251	257	307	353	384				
	Maximum running current		A	138	165	164	196	246	264	295	316	330	396	442	491				
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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