



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	2.89		2.84	2.90	2.83	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	
	Speed			rpm	900																	
Sound power level (XS)	Cooling	Nom.	dB(A)	92	94	95		97		98		99				100						
Sound power level (XL)	Cooling	Nom.	dB(A)	89	92	93		95				96				97		98				
Sound pressure level (XS)	Cooling	Nom.	dB(A)	72	74	75	76	77		78				79				80				
Sound pressure level (XL)	Cooling	Nom.	dB(A)	70	73		74	75				76				77						
Operation range	Water side	Cooling	Min.-Max.	°CDB		-13~15																
		Heating	Min.-Max.	°CDB		25~50																
	Air side	Cooling	Min.-Max.	°CDB		-10~46																
		Heating	Min.-Max.	°CDB		-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	533	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.

**Daikin Europe N.V.** Naamloze Vennootschap · Zandvoordestraat 300 · 8400 Oostende · Belgium · [www.daikin.eu](http://www.daikin.eu) · BE 0412 120 336 · RPR Oostende (Responsible Editor)



ECPEN15-424\_5 03/15



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