



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

EWYQ-G-XS



Scroll compressor

- › Single refrigerant circuit (2 scroll compressors) with single evaporator
- › Compact design to allow easy indoor installation or retrofit operations
- › Partial and total heat recovery option available
- › Stainless steel plate heat exchanger

# EWYQ-G-XS



Heating & Cooling				EWYQ-G-XS	075	085	100	110	120	140	160		
Cooling capacity	Nom.			kW	77.8 (1)	88.1 (1)	101 (1)	117 (1)	127 (1)	147 (1)	165 (1)		
Heating capacity	Nom.			kW	82.2 (2)	91.2 (2)	110 (2)	127 (2)	138 (2)	156 (2)	170 (2)		
Power input	Cooling	Nom.			kW	27.0 (1)	31.5 (1)	36.0 (1)	39.5 (1)	44.7 (1)	50.2 (1)		
	Heating	Nom.			kW	26 (2)	29 (2)	34 (2)	39 (2)	43 (2)	50 (2)		
Capacity control	Method			Step									
	Minimum capacity			%	50	44	50	44	50	43	50		
EER					2.88 (1)	2.80 (1)	2.81 (1)	2.97 (1)	2.84 (1)	2.92 (1)	2.85 (1)		
ESEER					3.90	3.94	3.97	4.03	3.92	3.96			
COP					3.14 (2)	3.12 (2)	3.24 (2)	3.25 (2)	3.20 (2)	3.11 (2)	3.13 (2)		
SCOP					3.25	3.20	3.46	3.42	3.39	3.33	3.35		
IPLV					4.40	4.47	4.40	4.49	4.40	4.50			
Dimensions	Unit	Height	mm	1,800									
		Width	mm	1,195									
		Depth	mm	2,826		3,426			4,026				
Weight	Unit			kg	850	912	1,077	1,183	1,213	1,333	1,394		
		Operation weight		kg	858	921	1,088	1,194	1,224	1,344	1,411		
Water heat exchanger	Type			Brazen plate									
	Water flow rate	Cooling	Nom.	l/s	3.7	4.2	4.8	5.6	6.1	7.0	7.9		
		Heating	Nom.	l/s	4.0	4.4	5.3	6.1	6.7	7.5	8.2		
	Water pressure drop	Cooling	Nom.	kPa	8.40	8.30	8.70	11.6	13.7	18.2	19.9		
		Heating	Nom.	kPa	9.50	9.10	11.20	14.40	17.20	21.70	22.50		
Water volume				l	8.10	9.40	10.8			16.7			
Air heat exchanger	Type			High efficiency fin and tube type with integral subcooler									
Compressor	Type			Scroll compressor									
	Quantity			2									
Fan	Type			Direct propeller									
	Quantity			6		8			10				
	Air flow rate	Nom.	l/s	10,042		9,861		13,148		16,435			
Speed				rpm	1,360								
Sound power level	Cooling	Nom.			dB(A)	84	85	87	89				
Sound pressure level	Cooling	Nom.			dB(A)	66	68	70	71				
Operation range	Air side	Cooling	Min.~Max.	°CDB	-10~45								
		Heating	Min.~Max.	°CDB	-10~45								
	Water side	Cooling	Min.~Max.	°CDB	-10~15								
		Heating	Min.~Max.	°CDB	-10~15								
Refrigerant	Type/GWP			R-410A/2,087.5									
	Circuits			Quantity									
Refrigerant charge	Per circuit			kg	15.0	18.0	23.0	30.0					
				TCO <sub>2</sub> eq	31.3	37.6	48.0	62.6					
Piping connections	Evaporator water inlet/outlet (OD)			2" 1/2									
Unit	Starting current	Max			A	210	261	267	316	323	363	377	
			Running current	Cooling	Nom.	A	52	56	60	69	76	88	95
				Max		A	66	72	78	87	95	111	125
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. (2) Heating capacity, unit power input and COP are based on the following conditions: ambient 7°C; condenser 40.0/45.0°C, unit at 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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