



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

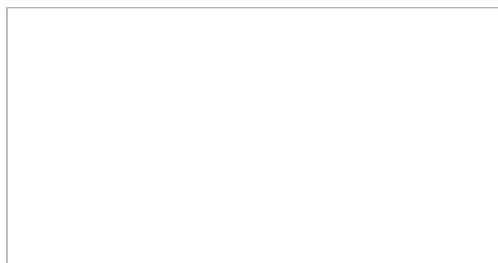
EWYQ-G-XS



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)	57.8 (1)		
	Heating	Nom.	kW	26 (2)	29 (2)	34 (2)	39 (2)	43 (2)	50 (2)	54 (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	Braze 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	1									
Refrigerant charge	Per circuit		kg	15.0	18.0	23.0	30.0					
			TCO ₂ 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.

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



ECPN15-441_1 07/15



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