



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

EWYQ-G-XR



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

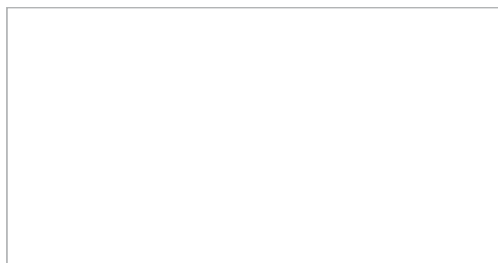
EWYQ-G-XR



Heating & Cooling				EWYQ-G-XR	075	085	100	110	120	140	160		
Cooling capacity	Nom.			kW	75.2 (1)	84.5 (1)	95.0 (1)	111 (1)	120 (1)	139 (1)	155 (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	27.7 (1)	32.7 (1)	38.6 (1)	41.5 (1)	47.4 (1)	52.8 (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					2.71 (1)	2.59 (1)	2.46 (1)	2.68 (1)	2.52 (1)	2.64 (1)	2.51 (1)		
ESEER					3.85	3.90	3.79	3.92	3.76	3.86	3.79		
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					4.35	4.41	4.29	4.42	4.27	4.40	4.35		
Dimensions	Unit	Height	mm	1,800									
		Width	mm	1,195									
		Depth	mm	2,826		3,426		4,026					
Weight	Unit			kg	880	942	1,107	1,213	1,243	1,363	1,424		
		Operation weight		kg	888	951	1,118	1,224	1,254	1,374	1,441		
Water heat exchanger	Type			Braze plate									
	Water flow rate	Cooling	Nom.	l/s	3.6	4.0	4.5	5.3	5.7	6.7	7.4		
		Heating	Nom.	l/s	4.0	4.4	5.3	6.1	6.7	7.5	8.2		
	Water pressure drop	Cooling	Nom.	kPa	7.90	7.70	7.60	10.5	12.1	16.4	17.5		
		Heating	Nom.	kPa	9.50	9.10	11.2	14.4	17.2	21.7	22.5		
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									
	Air flow rate	Nom.	l/s	7,859	7,101	9,468	11,835						
Sound power level	Cooling	Nom.	Speed	rpm	1,108								
			Sound pressure level	dB(A)	80	82	84	86					
Sound pressure level	Cooling	Nom.			dB(A)	62	65	66	68		67		
			Operation range	Air side	Cooling	Min.~Max.	°CDB	-10~-45					
Heating	Min.~Max.	°CDB			-17~-20								
Water side	Cooling	Min.~Max.		°CDB	-10~-15								
	Heating	Min.~Max.		°CDB	25~50								
Refrigerant	Type/GWP			R-410A/2,087.5									
	Circuits	Quantity		1									
Refrigerant charge	Per circuit			kg	1.00								
				TCO _{2eq}	31.3	37.6	48.0		62.6				
Refrigerant circuit	Charge			kg	15	18	15						
Piping connections	Evaporator water inlet/outlet (OD)			2" 1/2									
Unit	Starting current	Max			A	210	261	267	316	323.0	363	377	
			Running current	Cooling	Nom.	A	54	60	65	71	80	90	103
				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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