



Water cooled
multi-scroll
heat pump
reversing on
refrigerant
side, standard
efficiency,
standard sound
EWHQ-G-SS



Scroll compressor

- › Single refrigerant circuit (2 scroll compressors) with single evaporator
- › Heat pump version with reversibility on refrigerant side available, ideal for geothermal applications
- › Compact design to allow easy indoor installation or retrofit operations
- › Stainless steel plate heat exchanger
- › Conceived for stacked installation of two single circuit units to reduce the footprint
- › High efficiency and reliable scroll compressor
- › High flexibility for a wide variety of applications
- › Allows sequencing control (up to 4 units) without any external device
- › Pump (low 100 kPa and high 200 kPa lift) available for evaporator and condenser

EWHQ-G-SS



EWHQ-G-SS

Heating only & Cooling only				EWHQ-G-SS														
				100	120	130	150	160	190	210	240	270	340	400				
Cooling capacity	Nom.			kW	87.3 (1)	100.0 (1)	111 (1)	127 (1)	141 (1)	160 (1)	181 (1)	208 (1)	232 (1)	291 (1)	352 (1)			
Heating capacity	Nom.			kW	112 (2)	128 (2)	144 (2)	162 (2)	179 (2)	205 (2)	233 (2)	266 (2)	299 (2)	375 (2)	454 (2)			
Power input	Cooling	Nom.		kW	22.4 (1)	25.3 (1)	28.5 (1)	32.0 (1)	35.6 (1)	41.1 (1)	46.0 (1)	53.3 (1)	59.1 (1)	73.7 (1)	88.4 (1)			
	Heating	Nom.		kW	27.0 (2)	30.9 (2)	35.2 (2)	39.3 (2)	43.6 (2)	50.4 (2)	56.6 (2)	64.7 (2)	72.2 (2)	90.3 (2)	109 (2)			
Capacity control	Method			Step														
	Minimum capacity			%	50.0	43.0	50.0	44.0	50.0	45.0	50.0	43.0	50.0	40.0	50.0			
EER					3.90 (1)	3.95 (1)	3.91 (1)	3.96 (1)	3.95 (1)	3.90 (1)	3.93 (1)	3.90 (1)	3.92 (1)	3.95 (1)	3.98 (1)			
ESEER					4.70	4.84	4.65	4.86	4.80	4.89	4.86	4.83	4.79	4.90	4.83			
COP					4.15 (2)	4.16 (2)	4.09 (2)	4.12 (2)	4.11 (2)	4.07 (2)	4.11 (2)	4.10 (2)	4.14 (2)	4.16 (2)	4.18 (2)			
IPLV					6.02	6.14	5.66	5.84	5.73	5.84	5.81	5.87	5.71	5.86	5.79			
Space heating	Average climate water outlet 35°C	General	ns (Seasonal space heating efficiency) SCOP	%	160		163	167	166			172	171	163	-			
					4.08		4.14	4.24	4.23		4.22	4.37	4.35	4.16	-			
Dimensions	Unit	Height			1,066													
		Width			928													
		Depth			2,432													
Weight	Unit			kg	519	608	728	770	808	838	880	930	941	1,090	1,203			
	Operation weight			kg	558	654	782	830	873	908	995	1,019	1,031	1,202	1,334			
Water heat exchanger - evaporator	Type			Plate heat exchanger														
	Water volume			l	6	8	10	12	13	15	17			27	34			
	Water flow rate	Cooling	Nom.	l/s	4.2	4.8	5.3	6.1	6.7	7.7	8.7	10.0	11.1	13.9	16.9			
		Heating	Nom.	l/s	4.1	4.7	5.2	5.9	6.5	7.4	8.5	9.6	10.9	13.7	16.6			
	Water pressure drop	Cooling	Nom.	kPa	44		35	30	29	31	33	31	38	42	43			
Heating		Nom.	kPa	42		33	28	27	29	32	29	37	41	42				
Water heat exchanger - condenser	Type			Plate heat exchanger														
	Water volume			l	6	8	10	12	13	15	17			27	34			
	Water flow rate	Cooling	Nom.	l/s	5.2	6.0	6.7	7.7	8.5	9.7	10.9	13.7	13.9	17.4	21.1			
		Heating	Nom.	l/s	5.4	6.2	7.0	7.8	8.7	9.9	11.2	12.5	14.3	18.0	21.8			
	Water pressure drop	Cooling	Nom.	kPa	69		55	49	48	51	54	32	39	66	69			
Heating		Nom.	kPa	73		59	51	50	53	57	33	42	70	73				
Compressor	Type			Scroll compressor														
	Quantity			2														
Sound power level	Cooling	Nom.	dB(A)	80	83	85	87	88			90	92	93					
Sound pressure level	Cooling	Nom.	dB(A)	64	67	69	70	72			74	76		77				
Operation range	Evaporator	Cooling	Min.-Max.	-8~15														
	Condenser	Cooling	Min.-Max.	25~55														
Refrigerant	Type / GWP			R-410A / 2,087.5														
	Circuits			Quantity														
Refrigerant charge	Per circuit			kg/TCO ₂ eq	9.0/8.8		10.0/ 20.9		13.0/ 27.1		11.0/ 23.0		13.0/ 27.1		15.0/ 31.3		19.0/ 39.7	
Piping connections	Evaporator water inlet/outlet (OD)			1" 1/2														
	Condenser water inlet/outlet (OD)			2" 1/2														
Unit	Starting current			Max	A	204	255	261	308	316	354	368	466	481	640	677		
	Running current	Cooling	Nom.	A	43	46	50	56	63	71	78	88	97	123	148			
		Max			A	59	66	72	80	88	102	116	131	145	183	221		
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400													

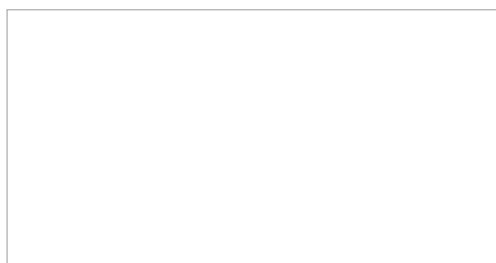
(1) Cooling: entering evaporator water temp. 12°C; leaving evaporator water temp. 7°C; entering condenser water temp. 30°C; leaving condenser water temp. 35°C; full load operation.

(2) Heating capacity, unit power input and COP are based on the following conditions: evaporator 5/10°C; condenser 40/45°C, unit at full load operation

(3) Sound power level (at standard conditions) is measured in accordance with ISO9614 and Eurovent 8/1 for Eurovent certified units

(4) 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)



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