



Water cooled  
multi-scroll  
chiller, standard  
efficiency,  
standard sound  
EWWQ-G-SS



Scroll compressor

- › Single refrigerant circuit (2 scroll compressors) with single evaporator
- › Heat pump version available
- › Compact design to allow easy indoor installation or retrofit operations
- › 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
- › Stainless steel plate heat exchanger
- › Pump (low 100 kPa and high 200 kPa lift) available for evaporator and condenser

# EWWQ-G-SS



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Cooling only				EWWQ-G-SS																					
				090	100	120	130	150	170	190	210	240	300	360											
Cooling capacity	Nom.	kW		93.7 (1)	106 (1)	119 (1)	136 (1)	150 (1)	172 (1)	194 (1)	221 (1)	246 (1)	314 (1)	370 (1)											
Heating capacity	Nom.	kW		118 (2)	133 (2)	150 (2)	169 (2)	187 (2)	215 (2)	244 (2)	276 (2)	310.00 (2)	396 (2)	468 (2)											
Power input	Cooling	Nom.	kW	21.3 (1)	24.0 (1)	26.9 (1)	30.5 (1)	33.9 (1)	38.9 (1)	43.8 (1)	50.7 (1)	56.1 (1)	70.2 (1)	84.0 (1)											
	Heating	Nom.	kW	25.7 (2)	29.2 (2)	32.9 (2)	37.2 (2)	41.4 (2)	47.6 (2)	53.7 (2)	61.3 (2)	68.3 (2)	85.6 (2)	103 (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				4.40 (1)		4.42 (1)		4.46 (1)		4.42 (1)		4.35 (1)		4.39 (1)		4.48 (1)		4.41 (1)							
ESEER				5.51		5.52		5.51		5.53		5.52		5.52		5.52		5.52							
COP				4.58 (2)		4.56 (2)		4.55 (2)		4.53 (2)		4.52 (2)		4.54 (2)		4.50 (2)		4.56 (2)							
IPLV				6.71		6.79		6.22		6.36		6.22		6.32		6.30		6.31		6.10		6.28		6.16	
Space heating	Average climate water outlet 35°C	General	η <sub>s</sub> (Seasonal space heating efficiency)	%	168		170		173		172		169		167		171		-						
					4.28		4.33		4.40		4.39		4.40		4.38		4.29		4.25		4.34		-		
Dimensions	Unit	Height		mm		1,066																			
		Width		mm		928																			
		Depth		mm		2,432				2,264				2,432											
Weight	Unit	kg		516	606	728	762	795	832	871	921	934	1,083	1,181											
		Operation weight		kg	555	652	782	821	859	901	946	1,010	1,023	1,195	1,311										
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		4.5	5.1	5.7	6.5	7.2	8.2	9.3	10.6	11.8	15.1	17.7									
		Heating	Nom.	l/s		4.4	5.0	5.6	6.3	7.0	8.0	9.1	10.3	11.6	14.9	17.5									
	Water pressure drop	Cooling	Nom.	kPa		49		39		33		35		37		34		42		47					
Heating		Nom.	kPa		47		38		31		33		35		32		41		46						
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		5.5	6.2	7.1	8.0	8.9	10.2	11.4	13.0	14.5	18.5	21.8									
		Heating	Nom.	l/s		5.7	6.4	7.3	8.2	9.1	10.4	11.8	13.3	15.0	19.1	22.6									
	Water pressure drop	Cooling	Nom.	kPa		72		73		60		50		52		56		46		57		69		71	
Heating		Nom.	kPa		76		77		63		52		54		59		48		61		74		76		
Compressor	Type			Scroll compressor																					
	Quantity			2																					
Sound power level	Cooling	Nom.	dBA		80	83	85	87	88		90		92		93										
Sound pressure level	Cooling	Nom.	dBA		64	67	69	70	72		74		76		77										
Operation range	Evaporator	Cooling	Min.-Max.	°CDB		-10~15																			
		Condenser	Min.-Max.	°CDB		25~55																			
Refrigerant	Type/GWP			R-410A / 2,087.5																					
	Circuits			Quantity		1																			
Refrigerant charge	Per circuit		kg/TCO <sub>2</sub> eq		10.0/20.9		11.0/23.0		12.0/25.1		15.0/31.3		16.0/33.4		17.0/35.5		19.0/39.7		20.0/41.8						
Piping connections	Evaporator water inlet/outlet (OD)			1" 1/2		1" 1/2		2" 1/2		2" 1/2		2" 1/2		3"											
	Condenser water inlet/outlet (OD)			1" 1/2		1" 1/2		2" 1/2		2" 1/2		2" 1/2		3"											
Unit	Starting current		Max		A		204	255	261	308	316	354	368	466	481	640	677								
	Running current	Cooling	Nom.	A		42	45	48	54	61	68	76	86	95	118	143									
		Max		A		59	66	72	80	88	102	116	131	145	183	221									
Power supply	Phase/Frequency/Voltage		Hz/V		3~/50/400																				

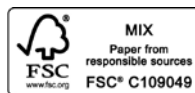
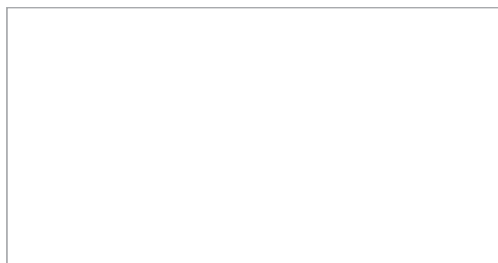
(1) Cooling: entering evaporator water temp. 12°C; leaving evaporator water temp. 7°C; entering condenser water temp. 30°C; leaving condenser water temp. 35°C; full load operation.

(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.

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