



Water cooled  
multi-scroll  
chiller, standard  
efficiency,  
standard sound

EWVQ-L-SS



Scroll compressor

- › Dual refrigerant circuit (4 scroll compressors) with single evaporator
- › Heat pump version available
- › Compact design to allow easy indoor installation or retrofit operations
- › High efficiency and reliable scroll compressor
- › Stainless steel plate heat exchanger
- › 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

# EWWQ-L-SS

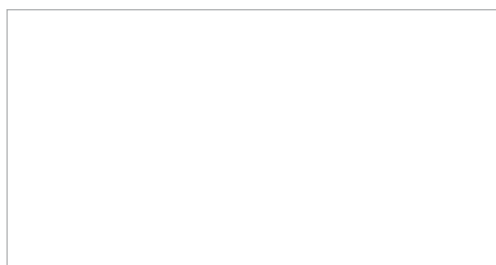


EWWQ-L-SS

Heating only & Cooling only				EWWQ-L-SS																
				180	205	230	260	290	330	380	430	480	540	600	660	720				
Cooling capacity	Nom.			kW	187 (1)	215 (1)	244 (1)	273 (1)	303 (1)	345 (1)	387 (1)	430 (1)	476 (1)	549 (1)	611 (1)	663 (1)	721 (1)			
Heating capacity	Nom.			kW	234 (2)	269 (2)	305 (2)	339 (2)	377 (2)	430 (2)	486 (2)	537 (2)	601 (2)	692 (2)	773 (2)	843 (2)	917 (2)			
Power input	Cooling	Nom.			kW	41.7 (1)	47.3 (1)	53.1 (1)	60.2 (1)	67.1 (1)	77.1 (1)	87.0 (1)	97.9 (1)	110 (1)	124 (1)	140 (1)	154 (1)	167 (1)		
	Heating	Nom.			kW	50.5 (2)	57.5 (2)	65.0 (2)	73.6 (2)	82.0 (2)	94.4 (2)	107 (2)	118 (2)	133 (2)	150 (2)	171 (2)	188 (2)	204 (2)		
Capacity control	Method			Step																
	Minimum capacity			%	25.0	21.0	25.0	22.0	25.0	23.0	25.0	21.0	25.0	22.0	20.0	18.0	25.0			
EER					4.49	4.55	4.60	4.53	4.52	4.47	4.45	4.39	4.34	4.44	4.37	4.31	4.32			
ESEER					5.54		5.52	5.53	5.54	5.53	5.54	5.52	5.51	5.55	5.51		5.52			
COP					4.64 (2)	4.67 (2)	4.68 (2)	4.60 (2)		4.56 (2)	4.55 (2)	4.54 (2)	4.51 (2)	4.60 (2)	4.53 (2)	4.48 (2)	4.49 (2)			
IPLV					6.77	6.84	6.35	6.38	6.31	6.32	6.36	6.37	6.16	6.29	6.23	6.20	6.18			
Space heating	Average climate water outlet 35°C	General	ns (Seasonal space heating efficiency)	%	177	176	178	176	177								-			
				SCOP	4.08		4.14	4.24	4.23								-			
Dimensions	Unit	Height			mm	1,970							2,090	2,210						
		Width			mm								928							
		Depth			mm								2,801							
Weight	Unit			kg	877	1,062	1,285	1,347	1,439	1,498	1,559	1,673	1,722	1,842	1,926	2,105	2,229			
		Operation weight		kg	957	1,156	1,401	1,469	1,575	1,641	1,723	1,851	1,918	2,044	2,145	2,346	2,405			
Water heat exchanger - evaporator	Type			Plate heat exchanger																
	Water volume			l	35	41	53		65		76	92		115						
	Water flow rate	Nom.			l/s	9.0	10.3	11.7	13.0	14.5	16.5	18.5	20.6	22.8	26.3	29.3	31.8	34.6		
			Heating	Nom.	l/s	8.8	10.1	11.5	12.7	14.1	16.1	18.2	20.1	22.4	26.0	28.9	31.4	34.2		
	Water pressure drop	Cooling	Nom.			kPa	28		23	28	25	32		33	40	51	50	59	69	
Heating				Nom.	kPa	27	22	27	24	31		39	50	48	58	68				
Water heat exchanger - condenser	Type			Plate heat exchanger																
	Water volume			l	19	22	29		35		41	49		62						
	Water flow rate	Cooling	Nom.			l/s	5.5	6.3	7.2	8.1	9.0	10.2	11.4	12.7	14.0	14.5	18.0	17.9	21.3	
				Heating	Nom.	l/s	11.3	13.0	14.8	16.5	18.3	20.9	23.5	25.9	28.9	33.4	37.2	40.5	44.2	
	Water flow rate 2	Cooling	Nom.			l/s	-													
				Nom.	l/s	5.5	6.3	7.2	8.1	9.0	10.2	11.4	12.7	14.0	17.8	18.0	21.3			
	Water pressure drop	Cooling	Nom.			kPa	72	73	61	49	50	51	55	46	57	43	67		68	
Heating				Nom.	kPa	76	77	64	52		53	59	48	60	70	72	73			
Water pressure drop 2	Cooling	Nom.			kPa	72	73	61	49	50	51	55	46	57	66	67	68			
Compressor	Type			Scroll compressor																
	Quantity			4																
Sound power level	Cooling	Nom.			dB(A)	83	86	88	90	91		93	95		96					
Sound pressure level	Cooling	Nom.			dB(A)	65	68	70	72	74		73	76	77		78				
Operation range	Evaporator	Cooling	Min.-Max.			°CDB	-10~15													
	Condenser	Cooling	Min.-Max.			°CDB	25~55													
Refrigerant	Type / GWP			R-410A / 2,087.5																
	Circuits			Quantity																
Refrigerant charge	Per circuit			kg/TCO <sub>2</sub> eq	10.0/ 20.9		11.0/ 23.0		12.0/ 25.1		15.0/313		16.0/334		17.0/ 35.5		19.0/39.7		20.0/ 41.8	
Piping connections	Evaporator water inlet/outlet (OD)			3"																
	Condenser water inlet/outlet (OD)			1" 1/2			2" 1/2			3"										
Unit	Starting current	Max			A	263	320	333	388	403	456	484	597	626	785	822	860	898		
			Running current	Cooling	Nom.	A	83	89	96	109	121	137	151	171	189	210	236	260	284	
						Max	A	118	131	144	160	175	205	232	262	290	328	366	403	441
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 (evap. 12/7°C, ambient 35°C full load operation) in accordance with ISO9614 and Eurovent 8/1 for Eurovent certified units. Certification refers only to the overall sound power, sound pressure is calculated from sound power level and used for info only, not considered bounding.
- (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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