



Water cooled  
screw chiller,  
standard  
efficiency,  
standard sound

EWVQ-B-SS

**R-410A**



Screw compressor

- › 1 or 2 stepless single-screw compressors
- › One or two truly independent refrigerant circuits for outstanding reliability

- › Shell and tube heat exchanger
- › Standard electronic expansion valve
- › Compact design

# EWWQ-B-SS



Cooling only				EWWQ-B-SS																					
				380	460	560	640	730	800	860	870	960	C10	C11	C12	C13	C14	C15	C16	C17	C19	C20			
Cooling capacity	Nom.			kW	379	462	560	635	724	793	859	868	956	1,003	1,050	1,181	1,251	1,320	1,452	1,595	1,754	1,896	2,055		
Power input	Cooling	Nom.		kW	89.2	109	133	150	170	179	207	199	218	247	243	268	285	303	337	373	407	441	477		
Capacity control	Method			Stepless																					
	Minimum capacity			%	12.5						25.0	12.5	25.0	12.5						25.0					
EER					4.24	4.21	4.22	4.25	4.42	4.15	4.36	4.38	4.07	4.32	4.41	4.38	4.35	4.31	4.28	4.31	4.30	4.31	4.31		
ESEER					4.64	4.69	4.70	4.46	5.08	4.35	5.07	5.03	4.28	5.04	5.05	5.06	5.00	4.66	4.76	4.61	4.63	4.54	4.54		
IPLV					5.57	5.62	5.63	5.32	5.58	5.15	5.75	5.92	5.08	5.90	5.93	5.85	5.46	5.44	5.34	5.38	5.32	5.32	5.32		
Dimensions	Unit	Height	mm	1,849	2,001		1,848	2,158	1,848	2,158		1,851	2,378		2,455		2,495								
		Width	mm	1,140	1,276		1,314	1,350	1,327	1,350		1,314		1,350											
		Depth	mm	3,373	3,454		3,535	5,020	3,535	5,020		3,535	4,894	5,070		4,892		4,865							
Weight	Unit			kg	1,933	1,967	2,283	2,332	2,407	3,921	2,427	3,949	3,988	2,457	4,344	4,529	4,536	4,607	4,988	4,999	5,053	5,204	5,289		
	Operation weight			kg	2,135	2,169	2,543	2,628	2,777	4,422	2,795	4,463	4,496	2,812	4,780	5,186	5,200	5,280	5,602	5,615	5,670	5,881	5,970		
Water heat exchanger - evaporator	Type			Single pass shell and tube																					
	Water volume			l	124	118	176	170	274	344	266	344	325	251	325	538		505		495	539	527	527		
Compressor	Water pressure drop	Cooling	Nom.	kPa	48	63	44	47	54	53	49	62	58	56	69	45	49	54	59	69	88	97	120		
	Type			Single screw compressor																					
Sound power level	Cooling	Nom.		dBA	1				2		1		2		1		2								
					Quantity																				
Sound pressure level	Cooling	Nom.			dBA	100	101	102		105	102	105		103	105		107		106	107		108			
Operation range	Evaporator	Cooling	Min.	°CDB	-4																				
			Max.	°CDB	10																				
	Condenser	Cooling	Min.	°CDB	25																				
			Max.	°CDB	45																				
Refrigerant	Type/GWP			R-410A/ 2,087.5																					
Refrigerant charge	Per circuit	Quantity		kg	1				2		1		2		1		2								
					TCO <sub>2</sub> Eq	250.5 208.8 365.3 187.9 167.0 177.4 187.9 93.9 177.4 208.8 334.0 208.8 313.1 271.4 313.1 334.0 271.4																			
Piping connections	Evaporator water inlet/outlet				mm	152.4				203.2				-				254							
	Condenser water inlet/outlet (OD)				inch	5		6		5				6		5									
Unit	Starting current	Max			A	455				656	599	656	626	656	663	690	902	954	988						
			Running current	Cooling	Nom.	A	149	175	211	237	269	299	329	325	352	391	387	423	449	476	539	596	650	702	755
							Max	A	179	214	259	294	308	358	372	393	427	434	473	519	553	587	615	679	744
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400																				

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. 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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