



Water cooled  
screw chiller,  
high efficiency,  
standard sound

EWWQ-B-XS

**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-XS



Cooling only				EWWQ-B-XS																						
				420	520	640	730	800	970	C10	C11	C12	C13	C14	C15	C16	C17	C19	C20	C21						
Cooling capacity	Nom.			kW	420	513	636	722	798	969	1,033	1,111	1,153	1,265	1,363	1,442	1,580	1,740	1,870	2,025	2,156					
Power input	Cooling	Nom.		kW	88.7	107	131	149	166	201	213	239	238	262	281	299	324	361	397	436	474					
Capacity control	Method																									
	Minimum capacity					12.5				25.0		12.5		25.0												
EER					4.74	4.79	4.84	4.83	4.81		4.86	4.64	4.85	4.83	4.85	4.83	4.88	4.81	4.71	4.64	4.55					
ESEER					5.27	5.29	5.37	5.36	5.30	5.09	5.56	4.99	5.52		5.65	5.61	5.26	5.18	4.98	4.91	4.75					
IPLV					6.36		6.45	6.42	6.35	6.06	6.11	5.92	6.06	6.07	6.23	6.19	5.82	5.92	6.03	5.81	5.93					
Dimensions	Unit	Height	mm	2,001				2,003		2,001	2,454		2,003		2,454				2,495							
		Width	mm	1,276		1,268		1,314	1,446	1,350		1,446		1,350												
		Depth	mm	3,863		3,878		3,920	5,219	3,919		5,219				4,829		4,865								
Weight	Unit				kg	2,322	2,403	2,464	2,738	2,407	2,427	4,775	2,457	4,831	4,873	4,919	4,969	5,117	5,388	5,408	5,414					
	Operation weight				kg	2,594	2,685	2,745	3,158	2,815	3,056	5,431	3,086	5,479	5,512	5,546	5,606	5,794	5,843	6,110	6,118	6,124				
Water heat exchanger - evaporator	Type	Single pass shell and tube																								
	Water volume				l	220	213	200	334	325	538	587	538	575	563	551		495	484	535	527					
Compressor	Water pressure drop	Cooling	Nom.	kPa	55	68	71	64	57	53		68	64	55	67	74	69	88	90	111	124					
	Type	Single screw compressor																								
Sound power level	Cooling	Nom.		dBA	1				2		1		2				108									
					Quantity																					
Sound pressure level	Cooling	Nom.		dBA	82	83	84	83	84	86	85	86	87		86	87	88									
					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																								
	Circuits	Quantity	1				2		1		2				2											
Refrigerant charge	Per circuit				kg	120.0	130.0	95.0	135.0	110.0	150.0	120.0	130.0	120.0	150.0	120.0	150.0	130.0	150.0							
	Per circuit				TCO <sub>2</sub> Eq	250.5	271.4	198.3	281.8	229.6	313.1	250.5	271.4	250.5	313.1	250.5	313.1	271.4	313.1							
Piping connections	Evaporator water inlet/outlet				mm	152.4		203.2		254	203.2		254		254											
	Condenser water inlet/outlet (OD)																									
	Condenser water inlet/outlet				inch	8		6		5	6	5		6		8										
Unit	Starting current	Max		A	455				656		626	656	663		690		902	954		988	998					
					Running current	Cooling	Nom.		A	149	173	208	235	258	313	346	370	381	417	443	469	511	567	621	678	734
										Max	A	179	214	259	294	308	372	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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