

Air cooled scroll inverter chiller

EWAQ-CWN/CWP



Inverter



Scroll compressor

- › Inverter chiller
- › High part load efficiency for low running cost
- › Minimal starting currents
- › Daikin scroll compressor

- › No buffertank required for standard applications
- › Wide operation range

EWAQ-CWN/CWP



Cooling only		EWAQ-CWN/CWP		016	021	025	032	040	050	064		
Cooling capacity	Nom.	kW		16.8 (1)/17.0 (2)	21.0 (1)/21.2 (2)	25.3 (1)/25.5 (2)	31.6 (1)/31.8 (2)	42.1 (1)/42.3 (2)	50.5(1)/50.7(2)	63.2(1)/63.3(2)		
	Max.	kW		20.0(1)/20.2(2)	25.0 (1)/25.2 (2)	30.1 (1)/30.3 (2)	37.6 (1)/37.8 (2)	50.1 (1)/50.3(2)	60.1 (1)/60.3 (2)	75.2 (1)/75.3 (2)		
Power input	Cooling	Nom. kW		5.93 (1)/5.81 (2)	7.61 (1)/7.47 (2)	9.60 (1)/9.45(2)	12.9 (1)/12.7(2)	15.1 (1)/ 15.1 (2)	19.2 (1)/19.0(2)	25.7 (1)/5.5 (2)		
Capacity control	Method		Inverter controlled									
	Minimum capacity		%		25							
	Maximum capacity		%		120							
EER				2.84(1)/2.93(2)	2.77(1)/2.84(2)	2.63(1)/2.70(2)	2.45(1)/2.50(2)	2.79(1)/2.80(2)	2.63(1)/2.67(2)	2.46(1)/2.48(2)		
ESEER				4.37(1)/4.85(2)	4.26(1)/4.70(2)	4.17(1)/4.57(2)	3.87(1)/4.10(2)	4.28(1)/4.40(2)	4.18(1)/4.36(2)	3.87(1)/4.05(2)		
Dimensions	Unit	Height	mm		1,684							
		Width	mm		1,370		1,680		2,360		2,980	
		Depth	mm		774				780			
	Packed unit	Height	mm		1,860							
		Width	mm		1,394		1,707		2,377		2,997	
		Depth	mm		834				838			
Weight	Unit		kg		268(1)/280(2)	321(1)/332(2)	321(1)/332(2)	403(1)/414(2)	579(1)/604(2)	579(1)/604(2)	741(1)/765(2)	
Water heat exchanger	Type		Brazed plate									
	Water flow rate	Cooling	Nom. l/min		48	60	72	90	120	145	181	
	Water pressure drop	Cooling	Total kPa		8	10	14	8	10	14	8	
	Water volume			l		3		5		6		9
Air heat exchanger	Type		Air cooled coil									
Compressor	Type		Hermetically sealed scroll compressor									
	Quantity				1	2		3	4		6	
Fan	Type		Axial									
	Quantity				1			2		4		
	Air flow rate	Cooling	Nom. m³/min		171	185		233	370		466	
Sound power level	Cooling	Nom. dBA		78			80	81		83		
Operation range	Air side	Cooling	Min.-Max. °CDB		-5~43							
	Water side	Cooling	Min.-Max. °CDB		-10~20							
Refrigerant	Type		R-410A									
	Circuits	Quantity		1				2				
	Control		Electronic expansion valve									
	GWP		2,087.5									
Refrigerant charge	Per circuit		kg		7.60			9.60		7.60		9.60
			TCO ₂ eq		15.9			20.0		15.9		20.0
Water circuit	Piping		inch		1-1/4"				1-1/2"			
	Piping connections diameter		inch		1-1/4" (female)				2" (female)			
Unit	Starting current	Max A		0.0	77.7	78.7	88.7	99.8	101.9	120.7		
	Running current	Max A		22.2	25.3	26.4	35.2	47.4	49.6	67.2		
Power supply	Phase/Frequency/Voltage		Hz/V		3N~/50/400							

(1) EWAQ-CWN: Version without pump. (2) EWAQ-CWP: Version with pump.

Daikin Europe N.V. Naamloze Vennootschap · Zandvoordestraat 300 · 8400 Oostende · Belgium · www.daikin.eu · BE 0412 120 336 · RPR Oostende (Responsible Editor)



Daikin Europe N.V. participates in the Eurovent Certified Performance programme for Liquid Chilling Packages and Hydronic Heat Pumps, Fan Coil Units and Variable Refrigerant Flow systems. Check ongoing validity of certificate: www.eurovent-certification.com

ECPEN17-443

09/17



The present leaflet is drawn up by way of information only and does not constitute an offer binding upon Daikin Europe N.V. Daikin Europe N.V. has compiled the content of this leaflet to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin Europe N.V. explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this leaflet. All content is copyrighted by Daikin Europe N.V.