



Air cooled scroll inverter heat pump

EWYQ-CWN/CWP



Inverter



Scroll compressor

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

- › No buffertank required for standard applications
- › Daikin scroll compressor

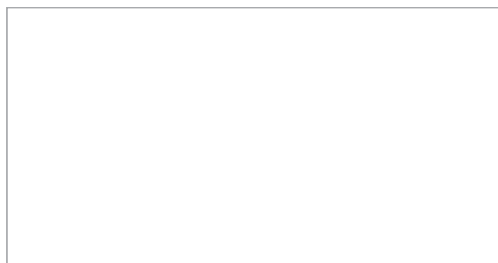
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Heating & Cooling		EWYQ-CWN/CWP		016	021	025	032	040	050	064	
Cooling capacity	Nom.	kW		16.8(1)/17.0(2)	21.0(1)/21.2(2)	25.3(1)/25.5(2)	31.6(1)/31.8(2)	42.1(1)/42.3(2)	50.5(1)/50.7(2)	63.2(1)/63.3(2)	
	Max.	kW		20.0(1)/20.2(2)	25.0(1)/25.2(2)	30.1(1)/30.3(2)	37.6(1)/37.8(2)	50.1(1)/50.3(2)	60.1(1)/60.3(2)	75.2(1)/75.3(2)	
Heating capacity	Nom.	kW		16.8(1)/16.6(2)	21.0(1)/20.8(2)	25.1(1)/24.9(2)	31.4(1)/31.2(2)	41.9(1)/41.7(2)	50.3(1)/50.1(2)	62.9(1)/62.7(2)	
	Max.	kW		20.0	25.0	29.9	37.4	49.9	59.9	74.9	
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	19.2(1)/19.0(2)	25.7(1)/25.5(2)
	Heating	Nom.	kW		5.60(1)/5.49(2)	6.89(1)/6.76(2)	8.74(1)/8.58(2)	10.8(1)/10.6(2)	13.7	17.5(1)/17.4(2)	21.6(1)/21.4(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)	
COP				3.00(1)/3.02(2)	3.05(1)/3.07(2)	2.87(1)/2.91(2)	2.91(1)/2.93(2)	3.06(1)/3.03(2)	2.87(1)/2.88(2)	2.91(1)/2.93(2)	
ESEER				4.37(1)/4.85(2)	4.26(1)/4.70(2)	138(1)/139(2)	135(1)/138(2)	4.28(1)/4.40(2)	4.18(1)/4.36(2)	3.87(1)/4.05(2)	
Space heating	Average climate water outlet 35°C	General	ns (Seasonal space heating efficiency)	%	147	148	138	135	149	139	135
			SCOP		3.75	3.78	3.53	3.45	3.80	3.55	3.45
			Seasonal space heating eff. class		A+	A++			A+		
Dimensions	Unit	Height	mm				1,684				
		Width	mm		1,370		1,680		2,360		
		Depth	mm		774				780		
	Packed unit	Height	mm				1,860				
		Width	mm		1,394		1,707		2,377		
		Depth	mm		834				838		
Weight	Unit	kg		268(1)/280(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		Braze plate								
	Water flow rate	Cooling	Nom.	l/min	48	60	72	90	120	145	181
		Heating	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.	m ³ /min	171	185	233	370	466		
Heating		Nom.	m ³ /min	171	185	233	370	466			
Sound power level	Cooling	Nom.	dB(A)	78		80		81		83	
Operation range	Air side	Cooling	Min.~Max.	°CDB		-5~43					
		Heating	Min.~Max.	°CDB		-15~35					
	Water side	Cooling	Min.~Max.	°CDB		-10~20					
		Heating	Min.~Max.	°CDB		25~50					
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) EWYQ-CWN: Version without pump. (2) EWYQ-CWP: Version with pump.

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