



# Air cooled scroll inverter heat pump

EWYQ-BAWN/BAWP

**R-410A**



Inverter



Scroll compressor

- › High efficiency with leader-of-class ESEER
- › Minimal starting currents and short payback times
- › A Modbus interface (RTD-W) can be installed per unit for monitoring and control by Daikin or third-party BMS

- › No buffer tank required for standard applications
- › Large operation range (ambient temperature up to 43°C)

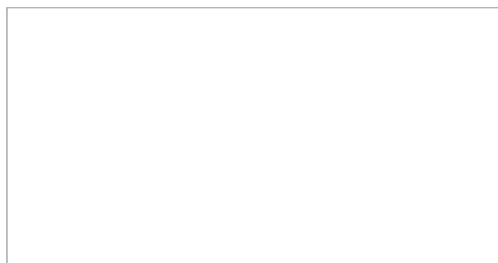
# EWYQ-BAWN/BAWP



Heating & Cooling		EWYQ-BAWN/BAWP		016	021	025	032	040	050	064			
Cooling capacity	Nom.	kW		17.4 (1) / 16.6 (2)	21.7 (1) / 20.7 (2)	25.8 (1) / 24.7 (2)	32.3 (1) / 30.9 (2)	43.4 (1) / 41.5 (2)	51.8 (1) / 49.7 (2)	64.5 (1) / 62.3 (2)			
Heating capacity	Nom.	kW		16.2 (1) / 17.0 (2)	20.3 (1) / 21.3 (2)	24.6 (1) / 25.7 (2)	30.7 (1) / 32.1 (2)	40.6 (1) / 42.5 (2)	49.0 (1) / 51.1 (2)	61.5 (1) / 63.7 (2)			
Power input	Cooling	Nom.		kW		5.60 (1) / 5.80 (2)	7.25 (1) / 7.59 (2)	9.29 (1) / 9.74 (2)	13.0 (1) / 13.5 (2)	14.7 (1) / 15.4 (2)	18.8 (1) / 19.7 (2)	26.4 (1) / 27.4 (2)	
	Heating	Nom.		kW		5.53 (1) / 5.73 (2)	7.10 (1) / 7.44 (2)	8.91 (1) / 9.36 (2)	10.6 (1) / 11.1 (2)	14.0 (1) / 14.7 (2)	17.6 (1) / 18.5 (2)	20.7 (1) / 21.7 (2)	
Capacity control	Method		Inverter controlled										
	Minimum capacity		%		25								
EER					3.11 (1) / 2.86 (2)	2.99 (1) / 2.73 (2)	2.78 (1) / 2.54 (2)	2.48 (1) / 2.29 (2)	2.95 (1) / 2.69 (2)	2.76 (1) / 2.52 (2)	2.44 (1) / 2.27 (2)		
ESEER					4.33 (1) / 4.21 (2)	4.08 (1) / 4.18 (2)	3.85 (1) / 4.04 (2)	3.39 (1) / 3.62 (2)	4.19 (1) / 4.24 (2)	3.96 (1) / 4.12 (2)	3.64 (1) / 3.78 (2)		
COP					2.93 (1) / 2.97 (2)	2.86 (1) / 2.86 (2)	2.76 (1) / 2.75 (2)	2.90 (1) / 2.89 (2)	2.90 (1) / 2.89 (2)	2.78 (1) / 2.76 (2)	2.97 (1) / 2.94 (2)		
Dimensions	Unit	Height		mm		1,684							
		Width		mm		1,371		1,684		2,358		2,980	
		Depth		mm		774				780			
Weight	Unit	Operation weight		kg		264		317		397		571	730
		Weight		kg		267		320		401		577	
Water heat exchanger	Type		Braze plate										
	Water volume		l		1.9		2.9		3.8		5.7		
	Water flow rate	Cooling	Nom.	l/min		50	62	74	93	124	148	185	
		Heating	Nom.	l/min		46	58	71	88	116	140	176	
Water pressure drop	Cooling	Total		kPa		20	30	42	30	42	30		
		Type		Hi-XSS									
Compressor	Type		Hermetically sealed scroll compressor										
	Quantity				1	2	3	4	6				
Fan	Type		Axial										
	Quantity				1		2		4		4		
	Air flow rate	Cooling	Nom.	m³/min		171	185	233	370	466			
Heating		Nom.	m³/min		171	185	233	370	466				
Sound power level	Cooling	Nom.		dBA		78		80		81		83	
		Operation range		°CDB		5~20		25~50		-5~43		-15~35	
	Air side	Cooling	Min.~Max.	°CDB		25~50		-5~43		-15~35			
		Heating	Min.~Max.	°CDB		-15~35							
Refrigerant	Type / GWP		R-410A / 2,087.5										
	Control		Electronic expansion valve										
	Circuits	Quantity	1										
Refrigerant charge	Per circuit		kg		7.6		9.6		15.2		19.2		
	Per circuit		TCO <sub>2</sub> Eq		15.9		20.0		31.7		40.1		
Water circuit	Piping connections diameter		inch		1-1/4" (female)				2" (female)				
	Piping		inch		1-1/4"				1-1/2"				
Unit	Maximum starting current		A		0	77.7	78.7	88.7	99.8	101.9	120.7		
	Maximum running current		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-BAWN: Naked version (2) EWYQ-BAWP: Verison with pump  
 Cooling: Tamb 35°C - LWE 7°C (DT=5°C) Heating: DB/WB 7°C/6°C - LWC 35°C (DT=5°C)  
 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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