



Air cooled mini inverter heat pump

EWYQ-ACV3/ACW1



R-410A



Inverter



Scroll compressor

- › Wide operating range
- › Built-in hydronic module: no buffer tank required and a standard pump and main switch are included
- › Easy 'plug and play' installation
- › Single phase power supply for residential applications, three phase power supply model available for light commercial applications
- › Inverter technology to ensure low sound values and leader-of-class ESEER

EWYQ-ACV3/ACW1



Heating & Cooling		EWYQ-ACV3/ACW1			009	010	011	009	011	013		
Cooling capacity	Nom.	kW			12.2 (1) / 8.6 (2)	13.6 (1) / 9.6 (2)	15.7 (1) / 11.1 (2)	12.9 (1) / 9.1 (2)	15.7 (1) / 11.1 (2)	17.0 (1) / 13.3 (2)		
Heating capacity	Nom.	kW			10.2 (1) / 9.9 (2)	11.7 (1) / 11.4 (2)	13.8 (1) / 12.9 (2)	11.2 (1) / 10.9 (2)	13.2 (1) / 12.4 (2)	14.8 (1) / 13.9 (2)		
Power input	Cooling	Nom.	kW			2.85 (1) / 2.83 (2)	3.41 (1) / 3.28 (2)	4.13 (1) / 3.90 (2)	3.08 (1) / 3.05 (2)	4.13 (1) / 3.90 (2)	5.52 (1) / 5.18 (2)	
	Heating	Nom.	kW			2.43 (1) / 2.99 (2)	2.81 (1) / 3.46 (2)	3.20 (1) / 3.94 (2)	2.69 (1) / 3.31 (2)	3.07 (1) / 3.78 (2)	3.47 (1) / 4.27 (2)	
Capacity control	Method				Inverter controlled							
EER					4.27 (1) / 3.05 (2)	4.00 (1) / 2.93 (2)	3.79 (1) / 2.85 (2)	4.19 (1) / 2.99 (2)	3.79 (1) / 2.85 (2)	3.08 (1) / 2.57 (2)		
ESEER					4.31	4.30	4.33	4.43	4.44	4.36		
COP					4.19 (1) / 3.30 (2)	4.17 (1) / 3.29 (2)	4.30 (1) / 3.27 (2)	4.17 (1) / 3.28 (2)	4.31 (1) / 3.27 (2)	4.28 (1) / 3.25 (2)		
Dimensions	Unit	Height	mm			1,435						
		Width	mm			1,418						
		Depth	mm			382						
Weight	Unit	kg			180							
		Type			Brazed plate							
Water heat exchanger	Water flow rate	Cooling	Nom.	l/min			24.7	27.6	31.9	26.1	31.9	38.2
			Nom.	l/min			28.3	32.6	36.9	31.2	35.5	39.8
		Water volume	l			1.01						
Air heat exchanger	Type				Hi-XSS							
Pump Standard	Nominal ESP unit	Cooling	kPa			58.0	54.6	49.1	56.4	49.1	40.9	
		Heating	kPa			52.8	47.1	40.9	49.1	43.0	36.6	
Hydraulic components	Expansion vessel Volume				l							
Compressor	Type				Hermetically sealed scroll compressor							
	Quantity				1							
Fan	Type				Propeller fan							
	Quantity				2							
	Air flow rate	Cooling	Nom.	m ³ /min			96	100	97	-	-	
Nom.			m ³ /min			90		-				
Fan motor	Speed	Cooling	Nom.	rpm			780					
			Nom.	rpm			760					
	Steps		8									
	Sound power level	Cooling	Nom. dBA			64				66		
Heating		Nom. dBA			64							
Sound pressure level	Cooling	Nom. dBA			51				52			
	Heating	Nom. dBA			51							
	Night quiet mode	Cooling	dBA			45				46		
		Heating	dBA			42				43		
Operation range	Air side	Cooling	Min.~Max.	°CDB			10~46					
		Heating	Min.~Max.	°CDB			-15~35					
	Water side	Cooling	Min.~Max.	°CDB			5~22					
		Heating	Min.~Max.	°CDB			25~50					
Refrigerant	Type/ GWP				R-410A/ 2,087.5							
	Circuits	Quantity			1							
	Control				Electronic expansion valve							
Refrigerant charge	Per circuit				kg							
					TCO ₂ eq							
Water circuit	Piping				inch							
	Piping connections diameter				inch							
Power supply	Phase/Frequency/Voltage				Hz/V				1~/50/230		3N~/50/400	

(1) Underfloor program: cooling Ta 35°C - LWE 18°C (Dt: 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (Dt: 5°C) (2) Fan coil program: cooling Ta 35°C - LWE 7°C (Dt: 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°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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