

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

EWYQ-ACV3/ACW1



Heating & Cooling		EWYQ-ACV3/ACW1			009	010	011	009	011	013
Cooling capacity	Nom.	kW			12.2 (1) / 8.60 (2)	13.6 (1) / 9.60 (2)	11.1 (2) / 15.7 (1)	12.9 (1) / 9.10 (2)	15.7 (1) / 11.1 (2)	17.0 (1) / 13.3 (2)
Heating capacity	Nom.	kW			9.90 (2) / 10.2 (1)	11.7 (1) / 11.4 (2)	13.8 (1) / 12.9 (2)	10.90 (2) / 11.20 (1)	13.2 (1) / 12.4 (2)	14.8 (1) / 13.9 (2)
Power input	Cooling	Nom. kW			2.83 (2) / 2.85 (1)	3.28 (2) / 3.41 (1)	3.90 (2) / 4.13 (1)	3.05 (2) / 3.08 (1)	4.13 (1) / 3.90 (2)	5.18 (2) / 5.52 (1)
	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					3.05 (2) / 4.27 (1)	2.93 (2) / 4.00 (1)	2.85 (2) / 3.79 (1)	2.99 (2) / 4.19 (1)	3.79 (1) / 2.85 (2)	2.57 (2) / 3.08 (1)
ESEER					4.31	4.30	4.33	4.43	4.44	4.36
COP					3.30 (2) / 4.19 (1)	3.29 (2) / 4.17 (1)	3.27 (2) / 4.30 (1)	3.28 (2) / 4.17 (1)	3.27 (2) / 4.31 (1)	3.25 (2) / 4.28 (1)
Space heating	Average climate water outlet 35°C	General	η _s (Seasonal space heating efficiency)		126	131	134	126	134	130
			SCOP		3.22	3.34	3.41	3.22	3.41	3.30
Dimensions	Unit	Height	mm		1,435					
		Width	mm		1,420					
		Depth	mm		382					
Weight	Unit				kg					
Water heat exchanger	Type				Braze plate					
	Water flow rate	Heating	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		60.5	57.8	53.2	59.2	53.2	40.9 / 45.6
		Heating	kPa		57.1	52.5	47.3	54.1	49.1	36.6 / 43.5
Hydraulic components	Expansion vessel		Volume l		10					
Compressor	Type				Hermetically sealed scroll compressor					
	Quantity				1					
Fan	Type				Propeller fan					
	Quantity				2					
	Air flow rate	Cooling	Nom. m ³ /min		96.0	100	97.0	-		
Heating		Nom. m ³ /min		90.0			-			
Fan motor	Speed	Cooling	Nom. rpm		780			-		
		Heating	Nom. rpm		760			-		
	Steps				8					
	Sound power level	Cooling	Nom. dBA		64.0			66.0		
Heating		Nom. dBA		60 (2)	64	60				
Sound pressure level	Cooling	Nom. dBA		50						
	Heating	Nom. dBA		50						
	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		5~20			-		
		Heating	Min.~Max. °CDB		30~50			-		
Refrigerant	Type				R-410A					
	Circuits	Quantity		1						
	Control				Electronic expansion valve					
Refrigerant charge	Per circuit				kg		2,087.5		2.95	
	TCO ₂ eq				6.16		5/4"		G 5/4" (female)	
Water circuit	Piping				inch		5/4"		G 5/4" (female)	
	Piping connections diameter				inch		5/4"		G 5/4" (female)	
Power supply	Phase/Frequency/Voltage				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) | Contains fluorinated greenhouse gases

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