



R-410A HEAT PUMPS

VECTOR IPDU INVERTER

SUPER DIGITAL INVERTER

SDI4: SUITABLE FOR REUSE OF EXISTING PIPES



sizes 1104 - 1404



sizes 564 - 804

## Outdoor Super Digital Inverter Series 4

### Features

The new Super Digital Inverter (SDI) series 4 models, with super high energy efficiency ratings and enhanced technological innovations, offer superior characteristics and performance.

This new system, which uses the environmentally responsible refrigerant R410A, can use piping designed for older R22 or R407C refrigerants.\*

This new solution enables old high-energy consumption air conditioning systems to be replaced by the most advanced inverter units, with significant benefits in terms of performance, acoustic comfort and energy-efficiency.

\* Provided the existing pipework meets current legislation regarding the pressure rating of R410A



### Key features

**Highest COP/EER values:** COP values up to 4.79 in heating mode (3 HP). Part load COP of up to 6.51 in heating mode.

**Increased energy efficiency:**  
 – 93% of the units have 5 star or better energy rating.  
 – 50% energy cost savings, compared with fixed-speed units.

**Vector Intelligent Drive Unit (IPDU):** an increased number of smaller steps for more accurate control.

**Extended pipe runs:** 70 m length for increased installation flexibility.

**Wider operating range:** guaranteed performance down to  $-15^{\circ}\text{C}$  outside temperature in cooling modes and down to  $-20^{\circ}\text{C}$  in heating mode.

COPs up to 4.79

Cooling/heating down to  $-15^{\circ}\text{C}$  outside temperature

Extended pipe runs to 70 m



Inverter Control



Quiet CDU



Guaranteed heating and cooling to  $-15^{\circ}\text{C}$



70m Super long pipe run



Hot Start



Hydrophilic coil protection


**Technical specifications heat pump**

Outdoor unit		RAV-SP564AT-E	RAV-SP804AT-E	RAV-SP1104AT-E	RAV-SP1404AT-E
		2 HP	3 HP	4 HP	5 HP
Air flow	m <sup>3</sup> /h – l/s	2400 – 667	3000 – 833	6060 – 1683	6180 – 1716
Sound pressure level (cooling / heating)	dB(A)	47/48	48/49	49/50	51/52
Sound power level (cooling / heating)	dB(A)	64/65	65/66	66/67	68/69
Operating range (cooling)	°C C	-15 ÷ 43	-15 ÷ 43	-15 ÷ 43	-15 ÷ 43
Operating range (heating)	°C H	-20 ÷ 15	-20 ÷ 15	-20 ÷ 15	-20 ÷ 15
Dimensions (h × w × d)	mm	550 × 780 × 290	890 × 900 × 320	1340 × 900 × 320	1340 × 900 × 320
Weight	kg	44	63	93	93
Compressor type		DC Twin Rotary	DC Twin Rotary	DC Twin Rotary	DC Twin Rotary
Flare connections					
Gas	in	1/2	5/8	5/8	5/8
Liquid	in	1/4	3/8	3/8	3/8
Minimum pipe length	m	5	5	3	3
Maximum pipe length	m	50	50	70	70
Maximum height difference	m	30	30	30	30
Chargeless pipe length	m	20	30	30	30
Circuit breaker	A	25	25	25	25
Power wiring to		outdoor	outdoor	outdoor	outdoor
Power wiring cable size	1-35m mm <sup>2</sup>	4.0	4.0	6.0	6.0
	36-70m mm <sup>2</sup>	6.0	6.0	6.0	6.0
Interconnecting cable cores		4	4	4	4
Interconnecting cable size	mm <sup>2</sup>	1.5	1.5	1.5	1.5
Power supply	V-ph-Hz	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50