

R-410A HEAT PUMPS

ECO-DRIVING COMPRESSORS

A-CLASS SYSTEM



Super Digital Inverter 4 Outdoor unit

Features

The new Super Digital Inverter, series 4, sets new standards for industry energy performance.

The units are equipped with the new Eco-driving twin-rotary compressors, where the magnetic action minimises the rotor friction loss.

The compressors can work at very low speed, down to 10 r/s, providing excellent energy performances in both cooling and heating.

The seasonal and the rated efficiencies are the highest in the industry for capacities from 10 to 12.5 kW.

The air management system has also been improved: high efficiency fan motors, larger fans and new fan grille design all contribute to the exceptional energy performance.

Piping and operating limits have also been improved. The new system can work at extremely low temperatures, in cooling and heating. The extended pipe length is now up to 75 m.

SDI4 is designed for R410A refrigerant, and R22 or R407C replacement systems that consume more energy.

Key features

Highest EER/COP values in the industry.

All systems are A-class rated in cooling and heating operation. Thanks to its new Eco-driving compressors, the new systems provide excellent seasonal energy performance, thus saving up to 70% annual energy cost compared to fixed speed systems.

Eco-driving twin-rotary compressors:

The structure and magnetic action of the new Eco-driving twin-rotary compressors provide excellent energy performance at full load as well as in partial load conditions.

Longer pipe runs, up to 75 m length and 30 m elevation for increased installation flexibility.

Wide operating range: down to -15 °C in cooling mode and down to -20 °C in heating mode.

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

The best EER and COP

Wide operating range; down to -15 °C in cooling and -20 °C in heating

Extended pipe runs, up to 75 m length and 30 m elevation



Technical specifications heat pump

Outdoor unit		RAV-SP1104AT-E	RAV-SP1404AT-E
		4 HP	5 HP
Air flow	m ³ /h – l/s	6060 – 1683	6180 – 1716
Sound pressure level, cooling	dB(A)	49	51
Sound power level, cooling	dB(A)	66	68
Operating range, cooling	°C	–15 to 43	–15 to 43
Sound pressure level, heating	dB(A)	50	52
Sound power level, heating	dB(A)	67	69
Operating range, heating	°C	–20 to 15	–20 to 15
Dimensions (H x L x D)	mm	1340 x 900 x 320	1340 x 900 x 320
Weight	kg	93	93
Compressor type		DC twin-rotary	DC twin-rotary
Flare connections, gas - liquid	in	5/8 – 3/8	5/8 – 3/8
Maximum pipe length	m	75	75
Maximum height difference	m	30	30
Pre-charged pipe length	m	30	30