



R-410A HEAT PUMPS

VECTOR IPDU INVERTER

DIGITAL INVERTER

DI3: SUITABLE FOR REUSE OF EXISTING PIPES



sizes 1103 – 1403



sizes 563 – 803

Outdoor Digital Inverter Series 3

Features

Toshiba's new Digital Inverter series 3 is an advanced solution that can meet the growing market need for ease of installation and increased consumer comfort.

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

Excellent EER with significant savings in annual power consumption.

Compatible with a wide choice of indoor units: ceiling, four-way cassette, ducted and high-wall units.

Light, compact units: up to 40% height reduction and up to 35% lighter than conventional models (sizes 4 HP and 5 HP) for easier installation.

The Vector Intelligent Drive Unit (IPDU) technology ensures high performance.

Simplified maintenance using the new TCC-Link wired remote control panel.

Extremely light

Cooling/heating down to **-15 °C outside temperature**

Compact size

TCC Link



Inverter Control



small

Compact dimensions



Guaranteed heating and cooling to **-15°C**



50m

Long pipe run



Hot Start



Hydrophilic coil protection



**MADE IN
JAPAN**



TOSHIBA
HEAT PUMPS

TOSHIBA

Technical specifications heat pump

Outdoor unit			RAV-SM563AT-E	RAV-SM803AT-E	RAV-SM1103AT-E	RAV-SM1403AT-E	RAV-SM1603AT-E
			2 HP	3 HP	4 HP	5 HP	6 HP
Air flow	m ³ /h – l/s		2400 – 667	2700 – 750	4500 – 1250	4500 – 1250	6180 – 1717
Sound pressure level (cooling/heating)	dB(A)		46/48	47/50	53/54	54/54	51/53
Sound power level (cooling/heating)	dB(A)		63/65	64/67	70/71	71/71	68/70
Operating range (cooling)	°C		-15 ÷ 43	-15 ÷ 43	-15 ÷ 43	-15 ÷ 43	-15 ÷ 43
Operating range (heating)	°C		-15 ÷ 15	-15 ÷ 15	-15 ÷ 15	-15 ÷ 15	-15 ÷ 15
Dimensions (h × w × d)	mm		550 × 780 × 290	550 × 780 × 290	795 × 900 × 320	795 × 900 × 320	1340 × 900 × 320
Weight	kg		38	42	77	77	99
Compressor type			DC Twin Rotary	DC Twin Rotary	DC Twin Rotary	DC Twin Rotary	DC Twin Rotary
Flare connections gas-liquid	in		1/2 – 1/4	5/8 – 3/8	5/8 – 3/8	5/8 – 3/8	5/8 – 3/8
Minimum pipe length	m		5	5	5	5	5
Maximum pipe length	m		30	30	50	50	50
Maximum height difference	m		30	30	30	30	30
Chargeless pipe length	m		20	20	30	30	30
Circuit breaker	A		25	25	25	25	25
Power wiring to			outdoor	outdoor	outdoor	outdoor	outdoor
Power wiring cable size	1-35m	mm ²	4.0	4.0	6.0	6.0	6.0
	36-50m	mm ²	6.0	6.0	6.0	6.0	6.0
Interconnecting cable cores			4	4	4	4	4
Interconnecting cable size	mm ²		1.5	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	220/240-1-50