

VERSATILE WORKHORSE

Digital Inverter series 3



Highlights

- compact – durable – efficient
- Easy-install features
- Easy commissioning functions
- 3-level silent setting

Digital-Inverter outdoor units for RAV single-room systems with refrigerant R32, for cooling- or heating operation with a wide performance spectrum. To be combined with RAV-HM indoor units or DX-kit. Available in nine capacity sizes from 2,5 to 14,0 kW cooling capacity and 3,4 to 16,0 kW heating capacity.



Performance

- Suitable for 24/7 continual operation
- Ideal for server rooms and humidity-sensitive applications
- Exceptionally high efficiency in part load range
- Controls at the lowest minimum capacities
- Small and lightweight chassis in 4 sizes
- Corresponds to the ECODESIGN Lot 10 Directive



Flexibility

- Max. pipe lengths up to 50 m
- Max. height differences up to 30 m
- Flexible control options available
- Wide operating temperature range



Technical details

- Twin rotary compressor
- Direct current hybrid inverter technology
- All units 1-phase, 230 V available
- Capacities 10, 12, 14 kW alternative 3-phase, 400V available
- Inspection window simplifies maintenance
- Kit available for noise reduction, max. capacity control, compressor operating signal
- 3-stage night operation adjustable
- Save Operation setting for demand limitation of 50% to 100%



The Digital Inverter system

- 100% TU2C-link compatibility
- DX kit available for connecting external heat exchangers
- Special solutions for Technical Cooling /IT
- Backup / rotation / redundancy functions
- Free Cooling Control ensures energy savings in technical cooling by utilizing outside air.
- Power Shift increases lifetime and saves energy
- Secondary Heating for controlling an additional heat source with only one remote control
- Supports new comfort remote control RBC-AMSU52-E
- Supports new comfort remote control RBC-AWSU52-E with Bluetooth functionality
- Optional WiFi control for comfort & security
- Energy monitoring via WiFi interface
- Step-by-step commissioning function
- Special Quick Service Tools
- Commissioning Mode for clear display of all sensor data
- LC Easy Monitor menu to check all sensor information
- Easy I.DN Setting for easy DN code setting
- Refrigerant amount check during test run
- Alternating defrosting for comfort & safety
- Self-test of indoor unit functions



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Technical data			RAV-GM1403ATP-E
Cooling capacity	kW	❄️	12,10
Cooling range (min.-max.)	kW	❄️	3,00 - 13,20
Outdoor temperature operating range (min.-max.)	°C	❄️	-20 / +46
Heating capacity	kW	🔥	13,00
Heating range (min.-max.)	kW	🔥	3,00 - 16,00
Outdoor temperature operating range (min.-max.)	°C	🔥	-20 / +15
Sound power level	dB(A)	❄️	72
Sound power level	dB(A)	🔥	73
Sound pressure level (low/med/high)	dB(A)	❄️	55
Sound pressure level (low/med/high)	dB(A)	🔥	56
Suction gas pipe diameter	mm (inch)		15,9 (5/8)
Liquid pipe diameter	mm (inch)		9,5 (3/8)
Pipe length (min.)	m		5
Pipe length (max.)	m		50
Height difference (max.)	m		30
Airflow	m³/h		4200
Power supply	V/Ph+N/Hz		220-240/1+N/50
Recommended fusing	A		24
Recommended power supply line type			H07RN-F 3G4,0
Communication line			H07RN-F 4G1,5
Compressor type			Twin-Rotary
Refrigerant			R32
Refrigerant charge	kg		2,20
Pre-charged up to	m		30
Added refrigerant charge	g/m		35
Dimensions (HxWxD)	mm		890 x 900 x 320
Weight	kg		64
SWL (LW) Night Operation, Level 1/2/3	dB(A)	❄️	60/65/69
SWL (LW) Night Operation, Level 1/2/3	dB(A)	🔥	64/67/71
SPL (Lp) Night Operation, Level 1/2/3	dB(A)	❄️	44/49/53
SPL (Lp) Night Operation, Level 1/2/3	dB(A)	🔥	48/51/55

❄️ Cooling 🔥 Heating

The measuring conditions for this product can be found at <https://www.toshiba-aircondition.com/en/measuring-conditions.html>

