

## 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-GM403ATP-E  |
|-------------------------------------------------|-----------|---------------------------------------------------------------------------------------|-----------------|
| Cooling capacity                                | kW        |    | 3,60            |
| Cooling range (min.-max.)                       | kW        |    | 0,90 - 4,00     |
| Outdoor temperature operating range (min.-max.) | °C        |    | -20 / +46       |
| Heating capacity                                | kW        |    | 4,00            |
| Heating range (min.-max.)                       | kW        |    | 0,80 - 5,00     |
| Outdoor temperature operating range (min.-max.) | °C        |    | -20 / +15       |
| Sound power level                               | dB(A)     |    | 60              |
| Sound power level                               | dB(A)     |    | 62              |
| Sound pressure level (low/med/high)             | dB(A)     |    | 45              |
| Sound pressure level (low/med/high)             | dB(A)     |    | 47              |
| Suction gas pipe diameter                       | mm (inch) |                                                                                       | 12,7 (½)        |
| Liquid pipe diameter                            | mm (inch) |                                                                                       | 6,4 (¼)         |
| Pipe length (min.)                              | m         |                                                                                       | 2               |
| Pipe length (max.)                              | m         |                                                                                       | 20              |
| Height difference (max.)                        | m         |                                                                                       | 10              |
| Airflow                                         | m³/h      |                                                                                       | 2220            |
| Power supply                                    | V/Ph+N/Hz |                                                                                       | 220-240/1+N/50  |
| Recommended fusing                              | A         |                                                                                       | 10              |
| Recommended power supply line type              |           |                                                                                       | H07RN-F 3G1,5   |
| Communication line                              |           |                                                                                       | H07RN-F 4G1,5   |
| Compressor type                                 |           |                                                                                       | Rotary          |
| Refrigerant                                     |           |                                                                                       | R32             |
| Refrigerant charge                              | kg        |                                                                                       | 0,90            |
| Pre-charged up to                               | m         |                                                                                       | 15              |
| Added refrigerant charge                        | g/m       |                                                                                       | 20              |
| Dimensions (HxWxD)                              | mm        |                                                                                       | 550 x 780 x 290 |
| Weight                                          | kg        |                                                                                       | 32              |
| SWL (LW) Night Operation, Level 1/2/3           | dB(A)     |  | 55/57/59        |
| SWL (LW) Night Operation, Level 1/2/3           | dB(A)     |  | 55/57/59        |
| SPL (Lp) Night Operation, Level 1/2/3           | dB(A)     |  | 40/42/44        |
| SPL (Lp) Night Operation, Level 1/2/3           | dB(A)     |  | 40/42/44        |

 Cooling  Heating

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

