

1:1 SINGLE-SPLIT OUTDOOR UNIT R32

SHORAI



Highlights

- Can be connected to one indoor unit
- Piping lengths up to max. 25 m
- Compact, quiet & durable



Compact and quiet outdoor units with low-GWP refrigerant R32 for 1:1 combination with SHORAI EDGE or CONSOLES indoor units. In a robust, weatherproof housing, can be set up flexibly.



Economical & reliable

- Very high energy efficiency (A+++)
- DC hybrid inverter technology
- Single (07 to 16) or twin rotary compressor (18 to 24)
- Particularly high efficiency in part load range
- Complies with the ECODESIGN Lot10 guideline
- Wide operating temperature range
- Housing made of galvanized sheet steel with a cream-colored stove enamel finish
- Large curved heat exchanger for a small footprint
- Automatic restart after power failure adjustable



Saving resources

- Inverter control minimizes power consumption
- Eco mode
- Environmentally friendly low-GWP refrigerant R32 pre-filled
- Air as an energy source in heating mode
- Inconspicuous design adapts to any environment
- SILENT whisper mode



Comfort and economy functions

- Operation via comfort IR remote control (included with the indoor unit)
- Clear & simple operation
- Automatic mode
- Hi power
- Comfort sleep
- Weekly timer with 4 freely programmable settings / day
- 28 time programs per week
- SILENT operating mode
- 8 °C frost protection function
- Power Select
- Optional APP control via smartphone and tablet



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| Indoor unit | | | RAS-B16N4KVRG-E |
|---|-------|----|-----------------|
| Outdoor unit | | | RAS-16J2AVSG-E1 |
| Cooling capacity | kW | ❄️ | 4,60 |
| Cooling range (min.-max.) | kW | ❄️ | 1,20 - 5,30 |
| Power consumption (min./nom./max.) | kW | ❄️ | 0,34/1,35/1,72 |
| Pdesign c | kW | | 4,6 |
| Energy efficiency EER | W/W | ❄️ | 3,41 |
| Energy efficiency SEER | | ❄️ | 7,80 |
| Energy efficiency class | | ❄️ | A++ |
| Annual electricity consumption | kWh/a | ❄️ | 206 |
| Outdoor temperature operating range (min.-max.) | °C | ❄️ | -15/+46 |
| Heating capacity | kW | 🔥 | 5,50 |
| Heating range (min.-max.) | kW | 🔥 | 1,10 - 6,30 |
| Power consumption (min./nom./max.) | kW | 🔥 | 0,30/1,52/1,90 |
| Pdesign h | kW | | 4,0 |
| Energy efficiency COP | W/W | 🔥 | 3,62 |
| Energy efficiency SCOP | | 🔥 | 4,60 |
| Energy efficiency class | | 🔥 | A++ |
| Annual electricity consumption | kWh/a | 🔥 | 1214 |
| Outdoor temperature operating range (min.-max.) | °C | 🔥 | -15/+24 |

| Indoor unit | | | RAS-B16N4KVRG-E |
|-------------------------------------|-------|----|-----------------|
| Sound pressure level (low/med/high) | dB(A) | ❄️ | 21/-/45 |
| Sound pressure level (low/med/high) | dB(A) | 🔥 | 22/-/45 |
| Sound power level | dB(A) | ❄️ | 58 |
| Sound power level | dB(A) | 🔥 | 58 |
| Airflow | m³/h | | 340-730 |
| Condensate pipe diameter | mm | | VP13 |
| Dimensions (HxWxD) | mm | | 300 x 987 x 210 |
| Weight | kg | | 12 |

❄️ Cooling 🔥 Heating



SHORAI / SET

| Outdoor unit | | | RAS-16J2AVSG-E1 |
|-------------------------------------|-----------|----|-----------------|
| 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 |
| Current consumption (nom.) | A | | 5,61 |
| Current consumption (max.) | A | | 9,50 |
| Sound pressure level (low/med/high) | dB(A) | ❄️ | 48 |
| Sound pressure level (low/med/high) | dB(A) | 🔥 | 50 |
| Sound power level | dB(A) | ❄️ | 61 |
| Sound power level | dB(A) | 🔥 | 63 |
| Suction gas pipe diameter | mm (inch) | | 12,7 (1/2) |
| Liquid pipe diameter | mm (inch) | | 6,3 (1/4) |
| Pipe length (min.) | m | | 2 |
| Pipe length (max.) | m | | 20 |
| Height difference (max.) | m | | 12 |
| Airflow | m³/h | | 2040 |
| Compressor type | | | DC Rotary |
| Refrigerant | | | R32 |
| Refrigerant charge | kg | | 0,80 |
| Pre-charged up to | m | | 15 |
| Added refrigerant charge | g/m | | 20 |
| Dimensions (HxWxD) | mm | | 550 x 780 x 290 |
| Weight | kg | | 33 |

❄️ Cooling 🔥 Heating

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

| Accessories | Description |
|---------------|--|
| Fernbedienung | Infrared remote control included |
| RB-I4101-E | Fabric cover Dark Gray enclosed |
| RB-I4102-E | Fabric cover Light Gray enclosed |
| RB-I4103-E | Fabric cover Bluish Gray |
| RB-I4104-E | Fabric cover Gray Beige |
| RB-I4105-E | Fabric cover Dark Brown |
| RB-I4106-E | Fabric cover Emerald Blue |
| 818F0023 | Active carbon-catechin filter strips |
| 818F0050 | Ultra-pure 2.5 filter strips |
| TCB-IFCB5-PE | External on/off PCB, window contact module |
| TCB-PX100-PE | Casing for outdoor installation of window contact module for high-wall units |



In order to make it easier for you to select the optimal product, you can find the description of the special TOSHIBA product functions for your model here:



Energy Label A+++: Energy efficiency class A+++ guarantees the lowest power consumption and the highest efficiency!



Hybrid inverter control: Smooth capacity regulation.



Rotary compressor: Reliability and high efficiency.



R32: Used refrigerant: R32.



Auto diagnostic: Check of system for flawless operation.

