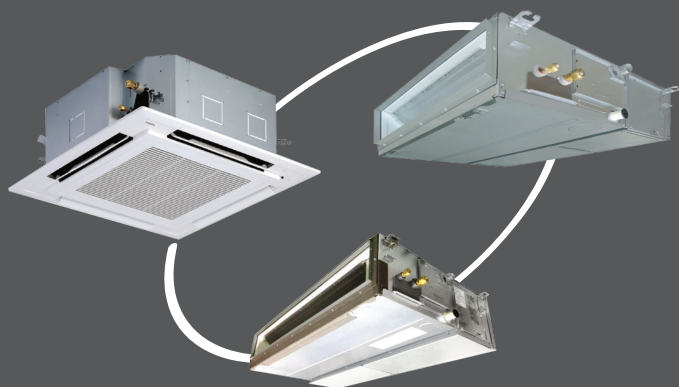


TOSHIBA



Light Commercial Inverter



EXPERIENCE THE FUTURE

> Toshiba Airconditioning Absolute comfort

Toshiba's commitment to world-class efficiency, versatile scalability and trusted quality results in cutting-edge technology that gives our customers industry leading solutions for their needs. Toshiba Air Conditioning is a global provider of a comprehensive range of innovative air conditioning solutions with trusted, world class reliability. With several "World's Firsts" to its credit, Toshiba Air Conditioning has been the reliable source of next generation, energy efficient products and solutions for over 30 years.

Toshiba's commitment to people drives attention to detail at every stage of the development process, from design to user field tests. As a result, Toshiba products and systems feature higher standard of indoor air quality, low sound levels, energy savings and unrivaled comfort along with environmental sustainability.

> A Global Innovation Network

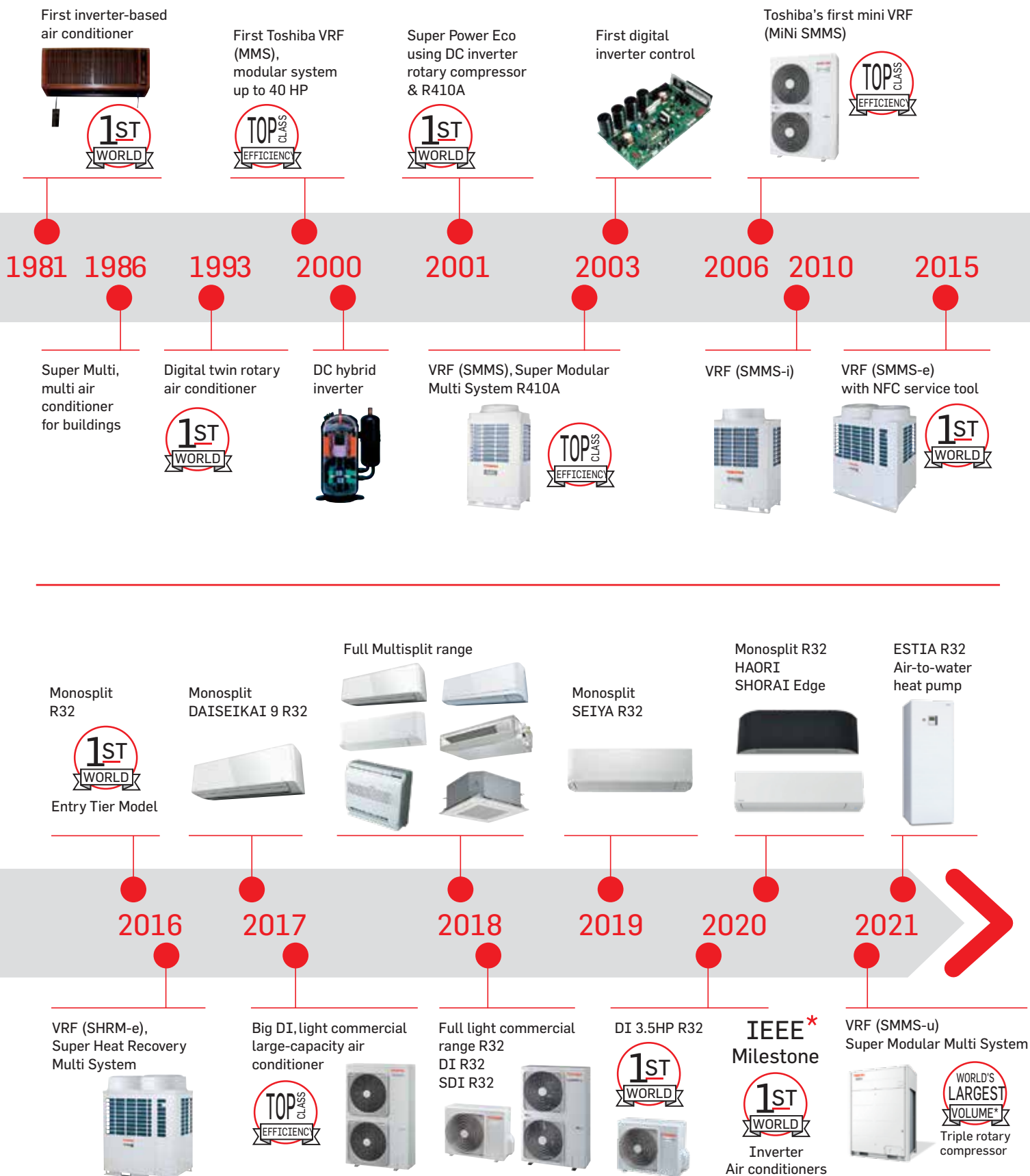
Toshiba Air Conditioning has research and development centers across Japan, Europe, Thailand and China. Its global research activities are managed and integrated to ensure all research sites collaborate to provide innovative solutions to customers across the world. The Toshiba brand holds more than 1200 patents in Japan and abroad, an outstanding number for any company.

Each year since 1994, Toshiba Air Conditioning has received prestigious awards for its significant achievements in air conditioning and in November 2020 the world's-first inverter split air conditioner that Toshiba developed and mass produced for commercial and residential applications in 1980 and 1981, respectively, was recognized by the Institute of Electrical and Electronics Engineers (IEEE) as an IEEE milestone for the historic significance of the achievement in electrical and electronics industry.

This demonstrates Toshiba's innovative spirit and a relentless drive to improve its products and systems.



> ALWAYS ONE STEP AHEAD



* In 2020, the Institute of Electrical and Electronics Engineers awarded Toshiba for the invention of the Inverter Air Conditioner and the significant contribution made by the Toshiba Inverter to the advancement of society and industry.



LIGHT COMMERCIAL INVERTER

Solutions for professionals, by professionals













Toshiba Inverter Light Commercial Systems are extremely compact units that provide exceptional operational savings. With state-of-the-art technology, flexible controls and improved installation flexibility, they ensure comfort and convenience for business, large residential applications and others installations.

Toshiba Inverter Light Commercial Systems offer a complete range of indoor units to suit a comprehensive range of commercial and large residential requirements. The range has been expanded with maximum cooling capacities to benefit commercial applications with larger heat loads.

> Features

- R410A refrigerant.
- Improved energy saving resulting from DC motor in the indoor units.
- Ease and flexibility of installation.
- Aqua resin magic coil in FCU prevents dirt accumulation ensuring healthy air and improved IAQ.
- Fireproof electrical enclosure for both indoor and outdoor unit.

Product lineup

| Type | Size | 18 | 24 | 30 | 36 | 48 | 60 |
|-----------------|--------------|--|--|--|--|--|--|
| | kW | 5.28 | 6.6 | 8.8 | 10.1 | 12.5 | 14.2 |
| Standard duct | |  |  |  |  |  |  |
| | Cooling only | RAV-SH1801BP-2B | RAV-SH2401BP-2B | RAV-SH3001BP-2B | RAV-SH3601BP-2B | RAV-SH4801BP-2B | *RAV-SH6001BP-2B |
| | Heat pump | RAV-SH1801BTP-2B | RAV-SH2401BTP-2B | RAV-SH3001BTP-2B | RAV-SH3601BTP-2B | RAV-SH4801BTP-2B | **RAV-SH6001BTP-2B |
| Condensing unit | |  |  |  |  |  |  |
| | Cooling only | RAV-SHB1801AP-2B | RAV-SHB2401AP-2B | RAV-SHB3001AP-2B | RAV-SHB3601AP-2B | RAV-SHB4801A8P-2B | RAV-SHB6001A8P-2B |
| | Heat pump | RAV-SHB1801ATP-2B | RAV-SHB2401ATP-2B | RAV-SHB3001ATP-2B | RAV-SHB3601ATP-2B | RAV-SHB4801AT8P-2B | RAV-SHB6001AT8P-2B |

*RAV-SH6001BP-2B, *RAV-SH6001BP-2B1
 **RAV-SH6001BTP-2B, RAV-SH6001BTP-2B1

| Type | Size | 18 | 24 | 30 | 36 | 48 |
|-----------------|--------------|---|---|--|---|---|
| | kW | 5.28 | 7.5 | 8.8 | 10.6 | 12.5 |
| 4-way cassette | |  |  |  |  |  |
| | Cooling only | RAV-SH1801UP-2B | RAV-SH2401UP-2B | RAV-SH3001UP-2B | RAV-SH3601UP-2B | RAV-SH4801UP-2B |
| | Heat pump | RAV-SH1801UTP-2B | RAV-SH2401UTP-2B | RAV-SH3001UTP-2B | RAV-SH3601UTP-2B | RAV-SH4801UTP-2B |
| Condensing unit | |  |  |  |  |  |
| | Cooling only | RAV-SHU1801AP-2B | RAV-SHU2401AP-2B | RAV-SHU3001AP-2B | RAV-SHU3601AP-2B | RAV-SHU4801A8P-2B |
| | Heat pump | RAV-SHU1801ATP-2B | RAV-SHU2401ATP-2B | RAV-SHU3001ATP-2B | RAV-SHU3601ATP-2B | RAV-SHU4801AT8P-2B |



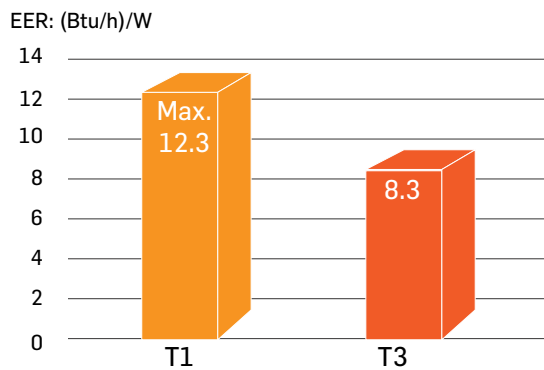
> Features

High efficiency

Toshiba's unique combination of twin rotary compressor and all inverter driven control contribute to guaranteed accuracy and high efficiency.



>>> Realize high efficiency both* T1 and T3



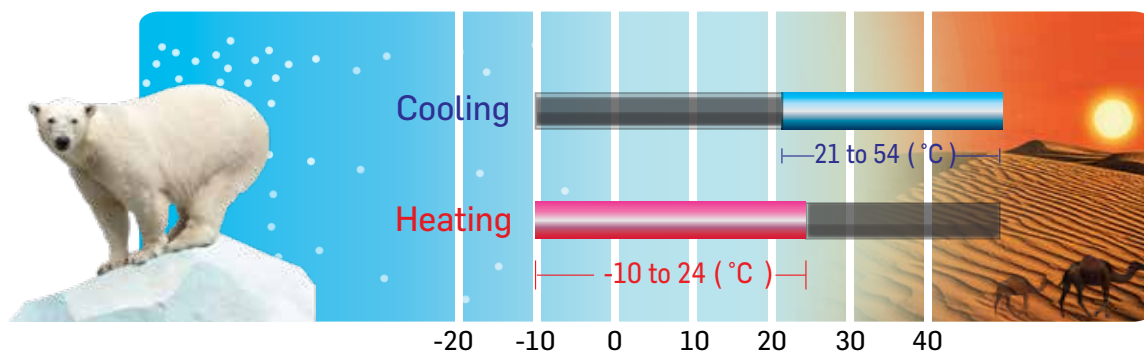
*T1 EER 12.3 by 2 Ton Standard Duct

Condition

T1 : Indoor air temperature 27°C DB / 19°C WB, Outdoor air temperature 35°C DB
 T3 : Indoor air temperature 29°C DB / 19°C WB, Outdoor air temperature 46°C DB

Outside temperature

Designed for the Middle East, the LC-Inverter has a wide operating range complimented by the high reliability of twin rotary compressors.



Protection circuit

Toshiba's LC Inverter offers a protection circuit (as standard) that protects the PC board under unstable power supply* and a function that detects incorrect wiring of the power supply for the 3-Phase product.

*3Phase 380-400V 10%

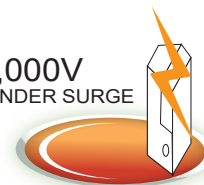
>>> Protection circuit*

Thunder surge protection

Surge absorber device (standard) protects the PCB from high current (up to 10,000 volts) such as resulting from a thunder surge.



10,000V
THUNDER SURGE



Noise filter

The system includes a noise filter to prevent voltage fluctuation ensuring that the air conditioner operates smoothly and with high reliability.



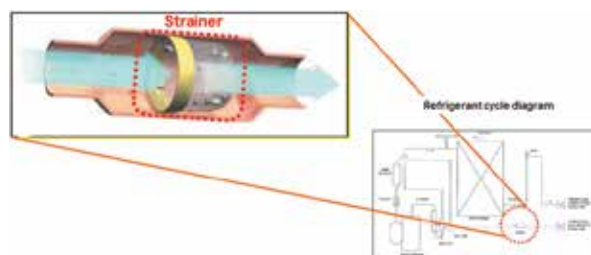
Twin rotary compressor

Toshiba's unique combination of twin rotary compressor and all inverter driven control with R410A refrigerant contribute to guaranteed accuracy and enables our customers to benefit from the expertise of flawless Japanese technology.



Strainer in gas pipe

The Toshiba LC Inverter has a strainer in the gas pipe that removes dust and metal abrasion powder.



Fireproof electrical enclosure

Fully fireproof electrical enclosure for both indoor and outdoor units ensures safety by preventing fire spread, explosions and fire-burn.





Ducted with DC motor

RAV-SH****BP
RAV-SH****BTP



2.0, 3.0 and 3.3 HP



4.0 and 5.0 HP

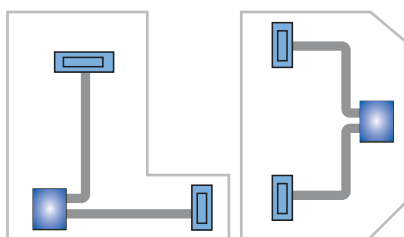


7.0 HP

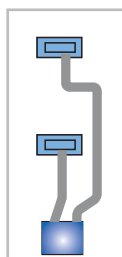
► Features

Flexible ducting options for complete design flexibility

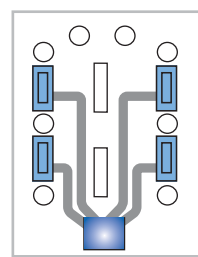
Suitable for ducted applications, Toshiba Ducted Units offer complete design flexibility and operate with high static pressure to ensure that all areas of the room can be reached for an even temperature distribution, irrespective of the complexity of piping layouts.



Polygonal rooms



Narrow rooms



Rooms with fixture and obstacles

High static pressure and Air volume

1.5 Ton; Max 120Pa & 880 CFM (30Pa)
2.0 Ton; Max 120Pa & 880 CFM (30Pa)
2.5 Ton; Max 160Pa & 1,180 CFM (50Pa)

3.0 Ton; Max 180Pa & 1,300 CFM (50Pa)
4.0 Ton; Max 180Pa & 1,765 CFM (50Pa)
5.0 Ton; Max 180Pa & 2,120 CFM (50Pa)

Fireproof electrical enclosure

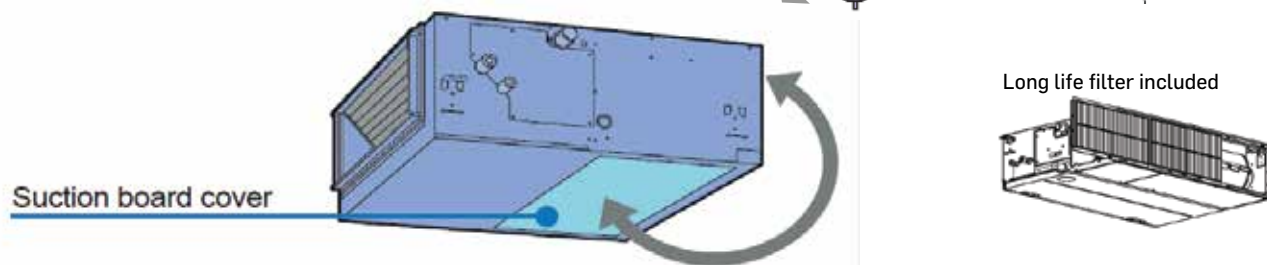
Fully fireproof electrical enclosure for both indoor and outdoor units ensures safety by preventing fire spread, explosions and fire-burn.



Installation flexibility

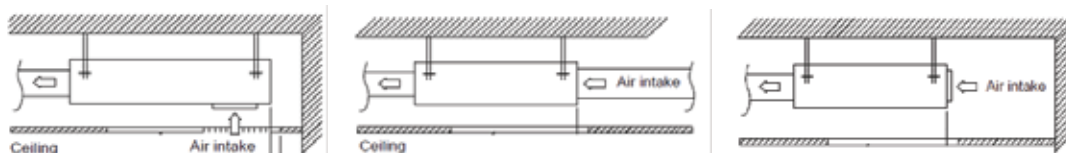
- Drain pump is standard for size 18 - 48 (Size 60 optional)
- Factory fitted standard air filter for sizes 18 - 30 *
- Back or under air intake is selectable
- High-lift drain pump

* Order separately for sizes 36 - 60



Installation is flexible by changing from the back to the under air intake. Suction board cover can be fixed either at the bottom or the back of unit.

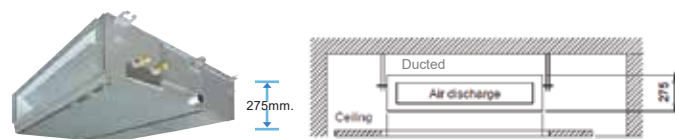
Various installation options for air suction



Compact sizing

Compact size especially height (275mm* and 298mm**) offers a wide range of installation options for the customer.

*Size 18,24,30 **Size 36,48



Flexible ducting

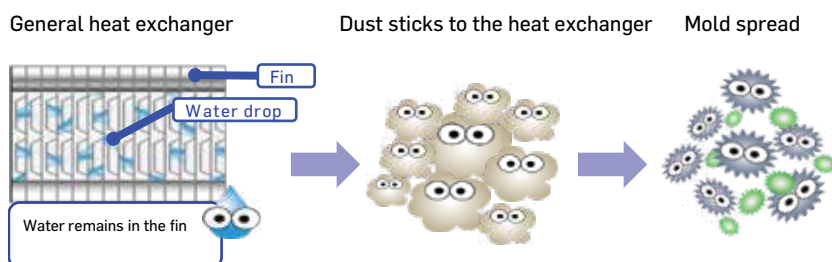
- Design flexibility
- Max. 180Pa with DC motor

Flexible Installation

- Back or under air intake
- High-lift drain pump (850 mm. from the bottom side)

Self clean operation

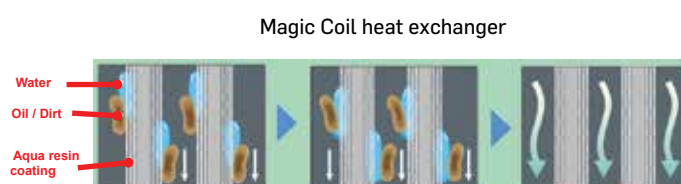
Automatic washing of the aquaresin coated indoor unit fins using condensate water ensures prevention of dust accumulation and the spread of mold.



Accumulation of dust resulting from long hours of operation.

Aqua resin coated Magic coil in FCU

The aqua resin coating prevents dirt from sticking to the fins while condensation water flow washes away dirt. After washing, a drying operation suppresses the propagation of mold.



Built-in high-lift drain pump

The flexible piping layout is made possible by a drain-pump kit that raises the drain piping up to 850mm. The drain-pump kit is standard for size 18-48 (size 60 is optional)

High static pressure

External static pressure can be raised as high as 180Pa, so that all areas of the room can be covered for an even temperature distribution, irrespective of the piping layout complexity.

Remote Control



Wireless remote controller kit

Wired remote controller

Standard duct

Specifications

Cooling only

| Model | | Indoor unit | RAV-SH1801BP-2B | RAV-SH2401BP-2B | RAV-SH3001BP-2B | RAV-SH3601BP-2B | RAV-SH4801BP-2B | *RAV-SH6001BP-2B | |
|-----------------------------|--------------------------|---------------------|---|---|---|---|---|---|-------------|
| | | Outdoor unit | RAV-SHB1801AP-2B | RAV-SHB2401AP-2B | RAV-SHB3001AP-2B | RAV-SHB3601AP-2B | RAV-SHB4801AP-2B | RAV-SHB6001AP-2B | |
| Power supply | | | 1phase 220-240V/60Hz | | | | 3phase 380-400V 60Hz | | |
| Cooling capacity | T1 | Capacity | 18,000 < 5,460 - 20,470 > (5.28 < 1.6 - 6.0 >) | 22,520 < 6,820 - 27,300 > (6.60 < 2.0 - 8.0 >) | 30,000 < 10,230 - 34,100 > (8.80 < 3.0 - 10.0 >) | 34,460 < 10,230 - 38,210 > (10.1 < 3.0 - 11.2 >) | 42,650 < 13,650 - 54,250 > (12.5 < 4.0 - 15.9 >) | 48,450 < 17,060 - 64,820 > (14.2 < 5.0 - 19.0 >) | |
| | | Power consumption | 1.46 | 1.91 | 2.48 | 2.92 | 3.62 | 3.94 | |
| | | EER | 12.30 | 11.80 | 12.10 | 11.80 | 11.80 | 12.30 | |
| | T3 | Capacity | 4.50 | 5.61 | 7.50 | 8.60 | 11.00 | 12.60 | |
| | | Power consumption | 1.85 | 2.31 | 3.09 | 3.52 | 4.51 | 4.51 | |
| | | EER | 8.30 | 8.30 | 8.30 | 8.30 | 8.30 | 9.55 | |
| Indoor unit specifications | | | | | | | | | |
| Outer dimension | Main unit | Height | mm(inch) | 275 (10.8) | 275 (10.8) | 275 (10.8) | 298 (11.7) | 298 (11.7) | 448 (17.6) |
| | | Width | mm(inch) | 1000 (39.4) | 1000 (39.4) | 1400 (55.1) | 1400 (55.1) | 1400 (55.1) | 1400 (55.1) |
| | | Depth | mm(inch) | 750 (29.5) | 750 (29.5) | 750 (29.5) | 750 (29.5) | 750 (29.5) | 900 (35.4) |
| Total weight | Main unit | (kg) | 30.0 | 30.0 | 40.0 | 42.0 | 42.0 | 97.0 | |
| Fan Centrifugal fan | | | | | | | | | |
| Standard air flow | H/M/L | (CFM) | 880 / 706 / 470 | 880 / 790 / 530 | 1180 / 1000 / 706 | 1300 / 1180 / 824 | 1765 / 1590 / 918 | 2120 / 1900 / 1470 | |
| Standard air flow | H/M/L | (m ³ /h) | 1500 / 1200 / 800 | 1500 / 1350 / 900 | 2000 / 1700 / 1200 | 2300 / 2000 / 1400 | 3000 / 2700 / 1560 | 3600 / 3240 / 2500 | |
| Sound pressure level | H/M/L | (dB) | 41 / 38 / 33 | 41 / 39 / 36 | 42 / 41 / 38 | 44 / 43 / 39 | 53 / 50 / 41 | 44 / 40 / 36 | |
| External static pressure | Standard (Upper - Lower) | (Pa) | 30 (120-30) | 30 (120-30) | 50 (160-30) | 50 (180-30) | 50 (180-30) | 50 (180-30) | |
| Indoor filter Yes | | | | | | | | | |
| Outdoor unit specifications | | | | | | | | | |
| Heat Exchanger Cu-Al | | | | | | | | | |
| Outer dimension | Main unit | Height | mm(inch) | 550 (21.6) | 630 (24.8) | 890 (35.0) | 890 (35.0) | 1340 (52.7) | 1340 (52.7) |
| | | Width | mm(inch) | 780 (30.7) | 800 (31.5) | 900 (35.4) | 900 (35.4) | 900 (35.4) | 900 (35.4) |
| | | Depth | mm(inch) | 290 (11.4) | 300 (11.8) | 320 (12.6) | 320 (12.6) | 320 (12.6) | 320 (12.6) |
| Total weight | Main unit | (kg) | 41.0 | 46.0 | 69.0 | 71.0 | 102.0 | 103.0 | |
| Pipe | Min. length | (m) | 5 | 5 | 5 | 5 | 5 | 5 | |
| | Max. total length | (m) | 35 | 35 | 35 | 35 | 50 | 50 | |
| Flare Connections | Gas side | mm(inch) | 12.7(1/2) | 15.9(5/8) | 15.9(5/8) | 15.9(5/8) | 15.9(5/8) | 19.0(6/8) | |
| | Liquid side | mm(inch) | 6.4(1/4) | 9.5(3/8) | 9.5(3/8) | 9.5(3/8) | 9.5(3/8) | 9.5(3/8) | |
| Refrigerant R410A | | | | | | | | | |
| Sound pressure level | Cooling | (dB) | 47 | 52 | 54 | 57 | 63 | 63 | |
| Operating Range | Cooling | (°C) | 21 / 54 | | | | | | |

*RAV-SH6001BP-2B, RAV-SH6001BP-2B1

Heat pump

| Model | | Indoor unit | RAV-SH1801BTP-2B | RAV-SH2401BTP-2B | RAV-SH3001BTP-2B | RAV-SH3601BTP-2B | RAV-SH4801BTP-2B | **RAV-SH6001BTP-2B | |
|-----------------------------|--------------------------|---------------------|---|---|---|---|---|---|-------------|
| | | Outdoor unit | RAV-SHB1801ATP-2B | RAV-SHB2401ATP-2B | RAV-SHB3001ATP-2B | RAV-SHB3601ATP-2B | RAV-SHB4801ATP-2B | RAV-SHB6001ATP-2B | |
| Power supply | | | 1phase 220-240V/60Hz | | | | 3phase 380-400V 60Hz | | |
| Cooling capacity | T1 | Capacity | 18,000 < 5,460 - 20,470 > (5.28 < 1.6 - 6.0 >) | 22,520 < 6,820 - 27,300 > (6.60 < 2.0 - 8.0 >) | 30,000 < 10,230 - 34,100 > (8.80 < 3.0 - 10.0 >) | 34,460 < 10,230 - 38,210 > (10.1 < 3.0 - 11.2 >) | 42,650 < 13,650 - 54,250 > (12.5 < 4.0 - 15.9 >) | 48,450 < 17,060 - 64,820 > (14.2 < 5.0 - 19.0 >) | |
| | | Power consumption | 1.46 | 1.91 | 2.48 | 2.92 | 3.62 | 3.62 | |
| | | EER | 12.30 | 11.80 | 12.10 | 11.80 | 11.80 | 12.30 | |
| | T3 | Capacity | 4.50 | 5.61 | 7.50 | 8.60 | 11.00 | 12.60 | |
| | | Power consumption | 1.85 | 2.31 | 3.09 | 3.52 | 4.51 | 4.51 | |
| | | EER | 8.30 | 8.30 | 8.30 | 8.30 | 8.30 | 9.55 | |
| Heating capacity | H1 | Capacity | 6.0 < 1.6 - 6.5 > | 8.0 < 2.7 - 9.4 > | 9.3 < 2.5 - 10.6 > | 10.1 < 3.0 - 11.6 > | 16.0 < 4.2 - 19.0 > | 16.5 < 4.0 - 19.5 > | |
| | Power consumption | (kW) | 1.45 | 2.16 | 2.42 | 2.97 | 4.57 | 4.58 | |
| | COP | (Btu/h.W) | 14.19 | 12.64 | 13.25 | 11.58 | 11.93 | 12.30 | |
| Indoor unit specifications | | | | | | | | | |
| Outer dimension | Main unit | Height | mm(inch) | 275 (10.8) | 275 (10.8) | 275 (10.8) | 298 (11.7) | 298 (11.7) | 448 (17.6) |
| | | Width | mm(inch) | 1000 (39.4) | 1000 (39.4) | 1400 (55.1) | 1400 (55.1) | 1400 (55.1) | 1400 (55.1) |
| | | Depth | mm(inch) | 750 (29.5) | 750 (29.5) | 750 (29.5) | 750 (29.5) | 750 (29.5) | 900 (35.4) |
| Total weight | Main unit | (kg) | 30.0 | 30.0 | 40.0 | 42.0 | 42.0 | 97.0 | |
| Fan Centrifugal fan | | | | | | | | | |
| Standard air flow | H/M/L | (CFM) | 880 / 706 / 470 | 880 / 790 / 530 | 1180 / 1000 / 706 | 1300 / 1180 / 824 | 1765 / 1590 / 918 | 2120 / 1900 / 1470 | |
| Standard air flow | H/M/L | (m ³ /h) | 1500 / 1200 / 800 | 1500 / 1350 / 900 | 2000 / 1700 / 1200 | 2300 / 2000 / 1400 | 3000 / 2700 / 1560 | 3600 / 3240 / 2500 | |
| Sound pressure level | H/M/L | (dB) | 41 / 38 / 33 | 41 / 39 / 36 | 42 / 41 / 38 | 44 / 43 / 39 | 53 / 50 / 41 | 44 / 40 / 36 | |
| External static pressure | Standard (Upper - Lower) | (Pa) | 30 (120-30) | 30 (120-30) | 50 (160-30) | 50 (180-30) | 50 (180-30) | 50 (180-30) | |
| Indoor filter Yes | | | | | | | | | |
| Outdoor unit specifications | | | | | | | | | |
| Heat Exchanger Cu-Al | | | | | | | | | |
| Outer dimension | Main unit | Height | mm(inch) | 550 (21.6) | 630 (24.8) | 890 (35.0) | 890 (35.0) | 1340 (52.7) | 1340 (52.7) |
| | | Width | mm(inch) | 780 (30.7) | 800 (31.5) | 900 (35.4) | 900 (35.4) | 900 (35.4) | 900 (35.4) |
| | | Depth | mm(inch) | 290 (11.4) | 300 (11.8) | 320 (12.6) | 320 (12.6) | 320 (12.6) | 320 (12.6) |
| Total weight | Main unit | (kg) | 41.0 | 46.0 | 69.0 | 71.0 | 102.0 | 103.0 | |
| Pipe | Min. length | (m) | 5 | 5 | 5 | 5 | 5 | 5 | |
| | Max. total length | (m) | 35 | 35 | 35 | 35 | 50 | 50 | |
| Flare Connections | Gas side | mm(inch) | 12.7(1/2) | 15.9(5/8) | 15.9(5/8) | 15.9(5/8) | 15.9(5/8) | 19.0(6/8) | |
| | Liquid side | mm(inch) | 6.4(1/4) | 9.5(3/8) | 9.5(3/8) | 9.5(3/8) | 9.5(3/8) | 9.5(3/8) | |
| Refrigerant R410A | | | | | | | | | |
| Sound pressure level | Cooling / Heating | (dB) | 47 / 51 | 52 / 55 | 54 / 56 | 57 / 57 | 63 / 63 | 63 / 63 | |
| Operating Range | Cooling | (°C) | 21 / 54 | | | | | | |
| | Heating | (°C) | -10 / 24 | | | | | | |

T1 Rated conditions Cooling: Indoor air temperature @ 27°C DB / 19°C WB and outdoor air temperature @ 35°C DB
 T3 Rated conditions Cooling: Indoor air temperature @ 29°C DB / 19°C WB and outdoor air temperature @ 46°C DB
 H1 Rated conditions Heating : Indoor air temperature 20°C DB and Outdoor air temperature 7°C DB/6°C WB

**RAV-SH6001BTP-2B, RAV-SH6001BTP-2B1



4-way cassette

RAV-SH****UP
RAV-SH****UTP



RBC-U31PGXP(W)-IN1



► Features

Efficiency

The Toshiba 4-way inverter cassette incorporates several energy saving technologies to improve operational efficiency and increase cost savings.

Magic coil

Maintains efficient heat transfer rate and energy saving by flushing oil and dirt with condensation water.

Long slit of heat exchanger

Improves heat transfer rate by mixing airflow more effectively.



High efficiency DC fan motor

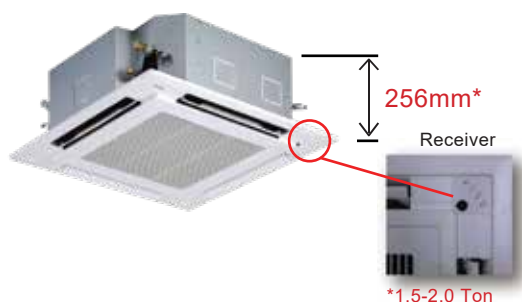
Optimizes DC Fan motor for fan and heat exchanger.

Large opening of AC vent

The Toshiba 4-way cassette features an enlarged AC vent to reduce the noise caused by large air volumes.

Compact sizing

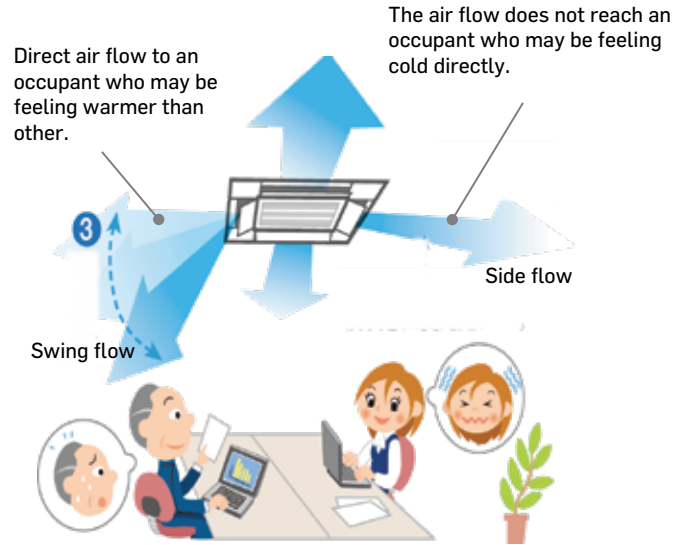
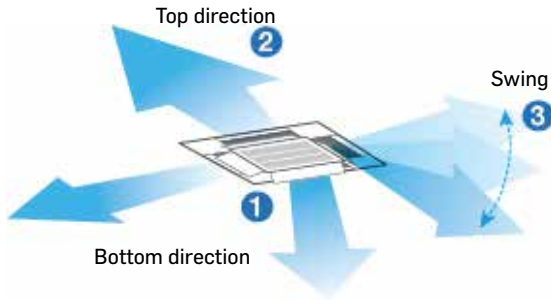
Compact size, specially height (256mm) offer wide installation flexibility to the customer.



*1.5-2.0 Ton

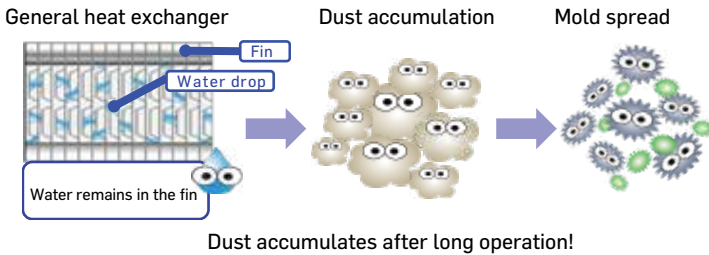
Comfort

Each louver can be controlled individually ensuring accuracy in directional control of airflow.



Self clean operation

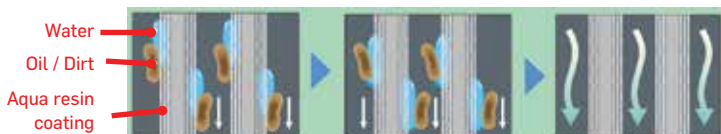
Automatic washing of the aquaresin coated indoor unit fins using condensate water.



Magic coil in FCU by Aqua resin coated

Automatic washing of the aqua resin coated indoor unit fins using condensate water ensures prevention of dust accumulation and the spread of mold. After washing, a drying operation suppresses mold build-up.

Magic Coil heat exchanger



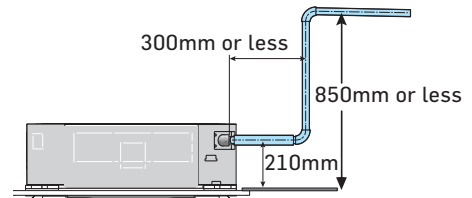
Fireproof electrical enclosure



Fully fireproof electrical enclosure for both indoor and outdoor units ensures safety by preventing fire spread, explosions and fire-burn.

850mm drain pump

Drain can be discharged upwards to 850mm. This ensures a high degree of freedom in the piping layout.



Remote Control



Wireless Remote (Standard)



RBC-ASC11E
RBC-ASC11UE



RBC-AMT32E
RBC-AMTU31-E



RBC-AMS55E-EN/ES
RBC-AMSU51-EN/ES

Wired remote controller

4-Way Cassette

Specifications

Cooling only

| Model | | Indoor unit | RAV-SH1801UP-2B | RAV-SH2401UP-2B | RAV-SH3001UP-2B | RAV-SH3601UP-2B | RAV-SH4801UP-2B | |
|---------------------------------|------------------------------------|----------------------------|------------------|---|---|---|---|---|
| | | Outdoor unit | RAV-SHU1801AP-2B | RAV-SHU2401AP-2B | RAV-SHU3001AP-2B | RAV-SHU3601AP-2B | RAV-SHU4801AP-2B | |
| Power supply | | 1phase 220-240V/60Hz | | | | | 3Phase 380-400V 60Hz | |
| Cooling capacity | T1 | Capacity | BTU/h (kW) | 18,000 < 5,460 - 20,470 > 5.28 < 1.6 - 6.0 > | 24,050 < 6,820 - 27,300 > 7.05 < 2.0 - 8.0 > | 30,020 < 10,230 - 34,100 > 8.80 < 3.0 - 10.0 > | 36,160 < 10,230 - 38,210 > 10.6 < 3.0 - 11.2 > | 42,650 < 13,650 - 54,250 > 12.5 < 4.0 - 15.9 > |
| | | Power consumption | (kW) | 1.46 | 2.06 | 2.45 | 2.97 | 3.62 |
| | | EER | (Btu/h.W) | 12.20 | 11.80 | 12.25 | 12.20 | 11.80 |
| | T3 | Capacity | (kW) | 4.50 | 6.06 | 7.50 | 9.10 | 11.00 |
| | | Power consumption | (kW) | 1.85 | 2.49 | 3.09 | 3.74 | 4.51 |
| | | EER | (Btu/h.W) | 8.30 | 8.30 | 8.30 | 8.30 | 8.30 |
| Indoor unit specifications | | | | | | | | |
| Outer dimension | Main unit | Height | mm(inch) | 256 (10.1) | 256 (10.1) | 319 (12.6) | 319 (12.6) | 319 (12.6) |
| | | Width | mm(inch) | 840 (33.1) | 840 (33.1) | 840 (33.1) | 840 (33.1) | 840 (33.1) |
| | | Depth | mm(inch) | 840 (33.1) | 840 (33.1) | 840 (33.1) | 840 (33.1) | 840 (33.1) |
| | Ceiling panel (Sold separately) | Height | mm(inch) | 30 (1.2) | 30 (1.2) | 30 (1.2) | 30 (1.2) | 30 (1.2) |
| | | Width | mm(inch) | 950 (37.4) | 950 (37.4) | 950 (37.4) | 950 (37.4) | 950 (37.4) |
| | | Depth | mm(inch) | 950 (37.4) | 950 (37.4) | 950 (37.4) | 950 (37.4) | 950 (37.4) |
| Ceiling panel (Sold separately) | | Model : RBC-U31PGXP(W)-IN1 | | | | | | |
| Total weight | Main unit | (kg) | 20.0 | | | 24.0 | | |
| | Ceiling panel (Sold) | (kg) | 4.2 | | | | | |
| Fan | | Turbo fan | | | | | | |
| Standard air flow | H/M/L | (CFM) | 618 / 512 / 460 | 720 / 565 / 480 | 1236 / 847 / 690 | 1265 / 880 / 720 | 1350 / 1090 / 880 | |
| Standard air flow | H/M/L | (m ³ /h) | 1050 / 870 / 780 | 1230 / 960 / 810 | 2100 / 1440 / 1170 | 2150 / 1500 / 1260 | 2300 / 1840 / 1500 | |
| Sound pressure level | H/M/L | (dB) | 37 / 36 / 34 | 40 / 37 / 36 | 46 / 42 / 37 | 47 / 43 / 39 | 49 / 45 / 43 | |
| Outdoor unit specifications | | | | | | | | |
| Heat Exchanger | | Cu-Al | | | | | | |
| Outer dimension | Height | mm(inch) | 550 (21.6) | 630 (24.8) | 890 (35.0) | 890 (35.0) | 1340 (52.7) | |
| | Width | mm(inch) | 780 (30.7) | 800 (31.5) | 900 (35.4) | 900 (35.4) | 900 (35.4) | |
| | Depth | mm(inch) | 290 (11.4) | 300 (11.8) | 320 (12.6) | 320 (12.6) | 320 (12.6) | |
| Total weight | Main unit | (kg) | 41.0 | 46.0 | 69.0 | 71.0 | 102.0 | |
| Pipe | Min. length | (m) | 5 | 5 | 5 | 5 | 5 | |
| | Max. total length | (m) | 35 | 35 | 35 | 35 | 50 | |
| Flare Connections | Gas side | mm(inch) | 12.7 (1/2) | 15.9 (5/8) | 15.9 (5/8) | 15.9 (5/8) | 15.9 (5/8) | |
| | Liquid side | mm(inch) | 6.4 (1/4) | 9.5 (3/8) | 9.5 (3/8) | 9.5 (3/8) | 9.5 (3/8) | |
| Refrigerant | | R410A | | | | | | |
| Sound pressure level | Cooling | (dB) | 47 | 52 | 54 | 57 | 63 | |
| Operating Range | | Cooling | (°C) | | | | | |

Heat pump

| Model | | Indoor unit | RAV-SH1801UTP-2B | RAV-SH2401UTP-2B | RAV-SH3001UTP-2B | RAV-SH3601UTP-2B | RAV-SH4801UTP-2B | |
|---------------------------------|------------------------------------|----------------------------|-------------------|---|---|---|---|---|
| | | Outdoor unit | RAV-SHU1801ATP-2B | RAV-SHU2401ATP-2B | RAV-SHU3001ATP-2B | RAV-SHU3601ATP-2B | RAV-SHU4801ATP-2B | |
| Power supply | | 1phase 220-240V/60Hz | | | | | 3Phase 380-400V 60Hz | |
| Cooling capacity | T1 | Capacity | BTU/h (kW) | 18,000 < 5,460 - 20,470 > 5.28 < 1.6 - 6.0 > | 24,050 < 6,820 - 27,300 > 7.05 < 2.0 - 8.0 > | 30,020 < 10,230 - 34,100 > 8.80 < 3.0 - 10.0 > | 36,160 < 10,230 - 38,210 > 10.6 < 3.0 - 11.2 > | 42,650 < 13,650 - 54,250 > 12.5 < 4.0 - 15.9 > |
| | | Power consumption | (kW) | 1.46 | 2.06 | 2.45 | 2.97 | 3.62 |
| | | EER | (Btu/h.W) | 12.20 | 11.80 | 12.25 | 12.20 | 11.80 |
| | T3 | Capacity | (kW) | 4.50 | 6.06 | 7.50 | 9.10 | 11.00 |
| | | Power consumption | (kW) | 1.85 | 2.49 | 3.09 | 3.74 | 4.51 |
| | | EER | (Btu/h.W) | 8.30 | 8.30 | 8.30 | 8.30 | 8.30 |
| Heating capacity | H1 | Capacity | (kW) | 6.0 < 1.6 - 6.5 > | 8.0 < 2.7 - 9.4 > | 9.3 < 2.5 - 10.6 > | 10.6 < 3.0 - 11.6 > | 16.0 < 4.2 - 19.0 > |
| | | Power consumption | (kW) | 1.45 | 2.16 | 2.42 | 3.12 | 4.57 |
| | | EER | (Btu/h.W) | 14.19 | 12.64 | 13.25 | 11.61 | 11.93 |
| Indoor unit specifications | | | | | | | | |
| Outer dimension | Main unit | Height | mm(inch) | 256 (10.1) | 256 (10.1) | 319 (12.6) | 319 (12.6) | 319 (12.6) |
| | | Width | mm(inch) | 840 (33.1) | 840 (33.1) | 840 (33.1) | 840 (33.1) | 840 (33.1) |
| | | Depth | mm(inch) | 840 (33.1) | 840 (33.1) | 840 (33.1) | 840 (33.1) | 840 (33.1) |
| | Ceiling panel (Sold separately) | Height | mm(inch) | 30 (1.2) | 30 (1.2) | 30 (1.2) | 30 (1.2) | 30 (1.2) |
| | | Width | mm(inch) | 950 (37.4) | 950 (37.4) | 950 (37.4) | 950 (37.4) | 950 (37.4) |
| | | Depth | mm(inch) | 950 (37.4) | 950 (37.4) | 950 (37.4) | 950 (37.4) | 950 (37.4) |
| Ceiling panel (Sold separately) | | Model : RBC-U31PGXP(W)-IN1 | | | | | | |
| Total weight | Main unit | (kg) | 20.0 | | | 24.0 | | |
| | Ceiling panel (Sold) | (kg) | 4.2 | | | | | |
| Fan | | Turbo fan | | | | | | |
| Standard air flow | H/M/L | (CFM) | 618 / 512 / 460 | 720 / 565 / 480 | 1236 / 847 / 690 | 1265 / 880 / 720 | 1350 / 1090 / 880 | |
| Standard air flow | H/M/L | (m ³ /h) | 1050 / 870 / 780 | 1230 / 960 / 810 | 2100 / 1440 / 1170 | 2150 / 1500 / 1260 | 2300 / 1840 / 1500 | |
| Sound pressure level | H/M/L | (dB) | 37 / 36 / 34 | 40 / 37 / 36 | 46 / 42 / 37 | 47 / 43 / 39 | 49 / 45 / 43 | |
| Outdoor unit specifications | | | | | | | | |
| Heat Exchanger | | Cu-Al | | | | | | |
| Outer dimension | Height | mm(inch) | 550 (21.6) | 630 (24.8) | 890 (35.0) | 890 (35.0) | 1340 (52.7) | |
| | Width | mm(inch) | 780 (30.7) | 800 (31.5) | 900 (35.4) | 900 (35.4) | 900 (35.4) | |
| | Depth | mm(inch) | 290 (11.4) | 300 (11.8) | 320 (12.6) | 320 (12.6) | 320 (12.6) | |
| Total weight | Main unit | (kg) | 41.0 | 46.0 | 69.0 | 71.0 | 102.0 | |
| Pipe | Min. length | (m) | 5 | 5 | 5 | 5 | 5 | |
| | Max. total length | (m) | 35 | 35 | 35 | 35 | 50 | |
| Flare Connections | Gas side | mm(inch) | 12.7 (1/2) | 15.9 (5/8) | 15.9 (5/8) | 15.9 (5/8) | 15.9 (5/8) | |
| | Liquid side | mm(inch) | 6.4 (1/4) | 9.5 (3/8) | 9.5 (3/8) | 9.5 (3/8) | 9.5 (3/8) | |
| Refrigerant | | R410A | | | | | | |
| Sound pressure level | Cooling / Heating | (dB) | 47 / 51 | 52 / 55 | 54 / 56 | 57 / 57 | 63 / 63 | |
| Operating Range | Cooling | (°C) | 21 / 54 | | | | | |
| | Heating | (°C) | -10 / 24 | | | | | |






T1 Rated conditions Cooling: Indoor air temperature @ 27°C DB / 19°C WB and outdoor air temperature @ 35°C DB

T3 Rated conditions Cooling: Indoor air temperature @ 29°C DB / 19°C WB and outdoor air temperature @ 46°C DB

H1 Rated conditions Heating: Indoor air temperature 20°C DB and Outdoor air temperature 7°C DB/6°C WB

► Controls

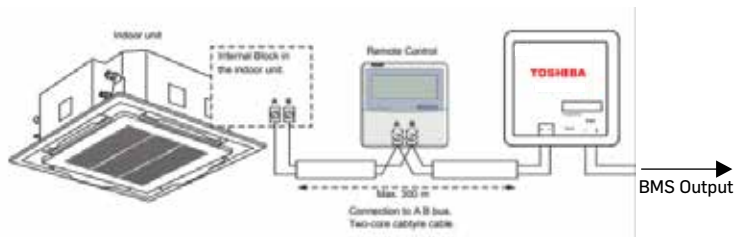
Optional Accessories

| Connector No | Picture | Pin No | Specification | Application | RAV-SH***BP RAV-SH***BTP | RAV-SH***UP RAV-SH***UTP |
|----------------|---|--------|----------------------------|---|-----------------------------|-----------------------------|
| TCB-KBCN32VEE |  | 1 | DC12 V | External Ventilation Fan Controls | YES | YES |
| | | 2 | Output | | | |
| TCB-KBCN61HAE |  | 1 | Start / stop input | 1. Hotel Key Card 2. Fire Panel Interlock 3. BMS/DDC/PLC Interlock - ON-OFF Command (Dry Contact) - RUN Output (12VDC) - Alarm Output (12VDC) | YES | YES |
| | | 2 | 0V(COM) | | | |
| | | 3 | Prohibition Input | | | |
| | | 4 | Operation output | | | |
| | | 5 | DC12 V (COM) | | | |
| | | 6 | Alarm output | | | |
| TCB-KBCN600PE |  | 1 | DC12 V (COM) | BMS/DDC/PLC Interlock 1. Defrosting output (12VDC) 2. Thermostat ON output (12VDC) 3. Cooling output (12VDC) 4. Heating Output (12VDC) 5. Fan Output (12VDC) | YES | NO |
| | | 2 | Defrosting output | | | |
| | | 3 | Thermostat ON output | | | |
| | | 4 | Cooling output | | | |
| | | 5 | Heating output | | | |
| | | 6 | Fan output | | | |
| TCB-PCUC2E |  | IN1 | External Error Input | BMS/DDC/PLC Interlock | NO | YES |
| | | IN2 | Prohibition Input | | | |
| | | AI1 | Operation Input resistance | | | |
| | | AI2 | Setpoint input resistance | | | |
| | | AI3 | Fan speed Input resistance | | | |
| | | K1 | Configurable Output 1 | | | |
| | | K2 | Configurable Output 2 | | | |
| | | K3 | Configurable Output 3 | | | |
| TCB-PCNT30TLE2 |  | | TCC-Link | TCB-PCNT30TLE TCC-Link network adaptor enables RAV systems to interface with central controllers and BMS systems. | YES | YES |

Optional BMS Interface

LC Indoor units can be integrated with Building Management Systems using Optional BMS Interface.

1. BMS-IFMBOTLR-E - Modbus RTU (1:1) BMS Interface
2. BMS-IFKX0TLR-E KNX TP (1:1) BMS Interface



Compatibility

| Model Number | RBC-AMT32E RBC-AMTU31-E | RBC-AMS41E | RBC-ASC11E RBC-ASC11UE | RBC-AMS55E-EN/ES RBC-AMSU51-EN/ES |
|----------------|----------------------------|------------|---------------------------|--------------------------------------|
| BMS-IFKX0TLR-E | Yes | Yes | No | No |
| BMS-IFMBOTLR-E | Yes | Yes | No | No |

TOSHIBA

