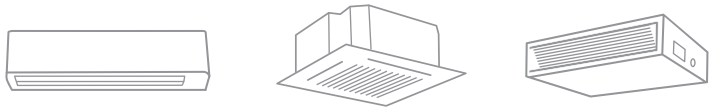
TOSHIBA

# Residential & Light Commercial

## Catalogue 2024



# 5 REASONS TO BUY TOSHIBA AIR CONDITIONERS

## 1 DESIGNED FOR THE MIDDLE EAST

The PKCV Series by Toshiba is specifically designed to withstand the high ambient temperatures in the Middle East. Toshiba has thoroughly tested this series to ensure that it provides 100% comfort and reliable cooling even at ambient temperatures of up to 54˚C.

## 2 QUIET PERFORMANCE

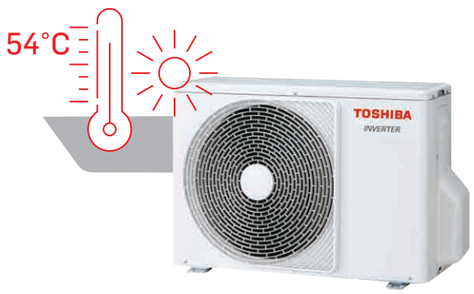
The overall experience of using Toshiba's PKCV is greatly improved with a quiet performance model. It allows users to enjoy the benefits of climate control without the inconvenience of noise levels.

## 3 TOP CLASS ENERGY EFFICIENCY

Toshiba air conditioner boasts a remarkable level of energy efficiency, setting it apart as a top-class performer. Engineered with cutting-edge technology, it maximizes cooling output while minimizing energy consumption.

150˚C
COMPRESSOR POWER LEAD

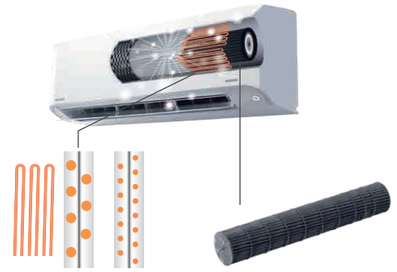
CORROSION
RESISTANCE



## 4 MAXIMUM AIR-FLOW FOR A LARGER ROOM

With a 13% bigger FCU (Fan Coil Unit) fan combined with 10% increase in heat-transfer surface, the Toshiba inverter Hi Wall offers industry leading air-flow and instant cooling.

**17** Meter maximum air-flow for a wide room



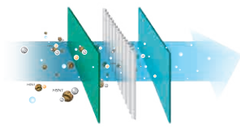
Heat transfer surface increase by 10%

13% bigger FCU Fan

## 5 CLEAN AIR

### Technology for Improved Health

Toshiba IAQ technology effectively prevents harmful bacteria and viruses like H5N1 Avian Influenza from reproducing. This means that your family can enjoy cleaner air and you and your living space will appear freshly cleaned.




Our advanced filtration system works on the following:

**Anti-bacteria:**
Destroys up to 99.9% of bacteria.

**Deodorizing power:**
Absorbs and decomposes smoke, ammonia, volatile organics, food smells and bad odors.

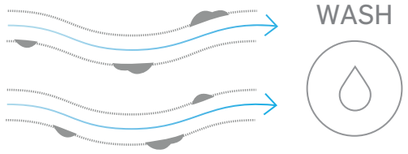
**Mold Prevention:**
Prevent mold formation and inhibits the formation of fungi.

**Anti-virus:**
Effective against Avian Influenza virus

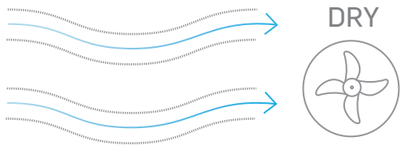
# SELF CLEANING FUNCTION

Aqua Resin Coated Coil

Self-cleaning operation in 20 mins.




Reduces water and oil formation and prevents dust from sticking to the unit coil.




Fan operation after shutdown helps dry water droplets and keeps the coils dry and clean.

# SMART AIR CONDITIONER WiFi READY*

## Download the Toshiba Home AC Control App and get started:

The Toshiba Home AC Control App lets you easily manage your surroundings' temperature. Accessible on your smartphone or tablet, the app works seamlessly with Toshiba PKCV inverter high-wall units for personalized temperature control anytime, anywhere.

## Customise your comfort, at home or away

Take control of your home's temperature with our smart app. Enjoy perfect comfort anywhere, anytime without the need for a remote control.

## Smart Connectivity

Our app allows you to easily manage your AC from any location. You can customize your AC schedule to align with your family's routine, which will help decrease your energy usage and cut down on your utility bill. The app is now available for Android users on Google Play and App Store for iOS.

**Optional accessory*

works with the Google Assistant
WORKS WITH amazon alexa
Download on the App Store
Google play

TOSHIBA AC features **voice control functions** compatible with Google Home Assistant & Amazon Alexa

# FEATURES

## QUIET
The indoors will operate at the lowest noise level without compromising comfort.

## Hi POWER
For extra airflow intensity to cool down your room faster than ever!

## FAN SPEED
5 Fan speeds with a comfortable setting, plus Auto fan and Hi-Power modes. Choose from gentle airflow up to the Hi Power mode.

## ON-OFF TIMER
The on-off timer makes it easy to program your air conditioner to switch on or off.

## EASY MAINTENANCE
Saves money and extends life of the air conditioner.

## AQUA RESIN COATED
Ensures better heat transfer and healthier airflow.

## AUTO DIAGNOSIS
The 26 Code Auto Diagnosis monitors main functions and components for easy maintenance.

## SELF CLEANING
Ensures long-lasting performance and improved IAQ.

## 11 LOUVER SETTINGS
Allows to adjust the airflow precisely to the position that gives efficient airflow for greatest comfort.

# Specifications

| System | | | Inverter Cooling Only (R410A) | | |
|---|---|---|---|---|---|
| Model | Indoor unit | | RAS-18PKCV-AE | RAS-24PKCV-AE | RAS-30PKCV-AE |
| | Outdoor unit | | RAS-18PACV-AE | RAS-24PACV-AE | RAS-30PACV-AE |
| Power supply | | V/Ph/Hz | 220-240/1/50 | | |
| T1 | Cooling Capacity (Maximum) | kW | 5.83 | 7.1 | 9 |
| | Cooling Capacity (Rated) | kW | 5.30 | 6.50 | 7.40 |
| | Total Input (Rated) | kW | 1.46 | 1.82 | 2.08 |
| | EER (Rated) | W/W | 3.63 | 3.57 | 3.56 |
| T3 | Cooling Capacity (Maximum) | kW | 5.04 | 6.13 | 7.77 |
| | Cooling Capacity (Rated) | kW | 4.55 | 5.68 | 6.40 |
| | Total Input (Rated) | kW | 1.86 | 2.32 | 2.57 |
| | EER (Rated) | W/W | 2.45 | 2.45 | 2.49 |
| **Indoor unit** | | | | | |
| | Airflow (H/M/L) | m3/h | 1188/744/408 | 1398/774/444 | 1398/984/708 |
| | | l/s | 330 / 207 / 113 | 388 / 215 / 123 | 388 / 215 / 123 |
| | Sound pressure level (H/M/L) | dB(A) | 49/45/37 | 50/46/38 | 54/47/41 |
| | Dimension (HxWxD) | mm | 320x1050x250 | 320x1050x250 | 320x1050x250 |
| | Net weight | kg | 14 | 16 | 16 |
| **Outdoor unit** | | | | | |
| | Sound pressure level (H) | dB(A) | 50 | 59 | 60 |
| | Compressor type | | Rotary | Rotary | Rotary |
| | Dimension (HxWxD) | mm | 550x780x290 | 630x800x300 | 890x900x320 |
| | Net weight | kg | 38 | 46 | 67 |
| | Operation Range | °C | 21 - 54 | 21 - 54 | 21 - 54 |
| | Heat exchanger | | Cu-Al | Cu-Al | Cu-Al |
| **Piping Specifications** | | | | | |
| | Liquid side | mm(inch) | 6.35 (1/4") | 6.35 (1/4") | 9.52 (3/8") |
| | Gas side | mm(inch) | 12.7 (1/2") | 15.88 (5/8") | 15.88 (5/8") |
| | Refrigerant charge (R410A) | kg | 1.45 | 2 | 2.35 |
| | Max. pipe length/height | m | 20/15 | 25/15 | 30/20 |
| | Chargeless pipe length | m | 15 | 15 | 15 |
| | Additional refrigerant charge | g/m | 20 | 30 | 30 |

* The specifications may be subject to change without notice for purpose of improvement.

Cooling operation testing conditions:

| | T1 | T3 |
|---|---|---|
| Indoor | 27°C DB / 19°C WB | 29°C DB / 19°C WB |
| Outdoor | 35°C DB / 24°C WB | 46°C DB / 24°C WB |

1.5TR

2.0TR

2.5TR

# LIGHT COMMERCIAL INVERTER

EXPERIENCE
THE FUTURE NOW

## Toshiba Inverter Systems for Commercial and Residential Excellence.

Experience peak efficiency and unparalleled innovation with Toshiba Inverter Systems. From thriving businesses to expansive residences, our compact units redefine savings while catering to a wide range of needs. With advanced technology, flexible controls, and enhanced installation options, comfort meets convenience. Discover the perfect balance of commercial strength and residential comfort today.



# PRODUCT LINEUP

## Light Commercial Inverter

| Type Cooling only | | TR | 1.5 | 2.0 | 2.5 | 3.0 | 4.0 | 5.0 |
|---|---|---|---|---|---|---|---|---|
| | BTU | K | 18 | 24 | 30 | 36 | 48 | 60 |
| | | KW | 5.3 | 6.6 | 8.8 | 10.1 | 12.5 | 14.2 |
| Standard duct | | | AV-SH**18**01BP-AE | RAV-SH**24**01BP-AE | RAV-SH**30**01BP-AE | RAV-SH3601BP-AE | RAV-SH4801BP-AE | RAV-SH6001BP-AE1 |
| Condensing unit | | | RAV-SHB1801AP-AE | RAV-SHB2401AP-AE | RAV-SHB3001AP-AE | RAV-SHB3601AP-AE | RAV-SHB4801A8P-AE | RAV-SHB6001A8P-AE |

| Type Cooling only | | TR | 1.5 | 2.0 | 2.5 | 3.0 | 4.0 |
|---|---|---|---|---|---|---|---|
| | BTU | K | 18 | 24 | 30 | 36 | 48 |
| | | KW | 5.3 | 6.6 | 8.8 | 10.1 | 12.5 |
| 4-way cassette | | | RAV-SH1801UP-AE | RAV-SH2401UP-AE | RAV-SH3001UP-AE | RAV-SH3601UP-AE | RAV-SH4801UP-AE |
| Condensing unit | | | RAV-SHU1801AP-AE | RAV-SHU2401AP-AE | RAV-SHU3001AP-AE | RAV-SHU3601AP-AE | RAV-SHU4801A8P-AE |

# FEATURES

- Powerful Cooling
- High Energy Efficiency
- Upto 54˚C
- R410A Refrigerant
- Quiet Operation

# DUCTED
# WITH DC MOTOR

RAV-SH****BP

1.5, 2.0 and 2.5 TR

3.0 and 4.0 TR

5.0 TR

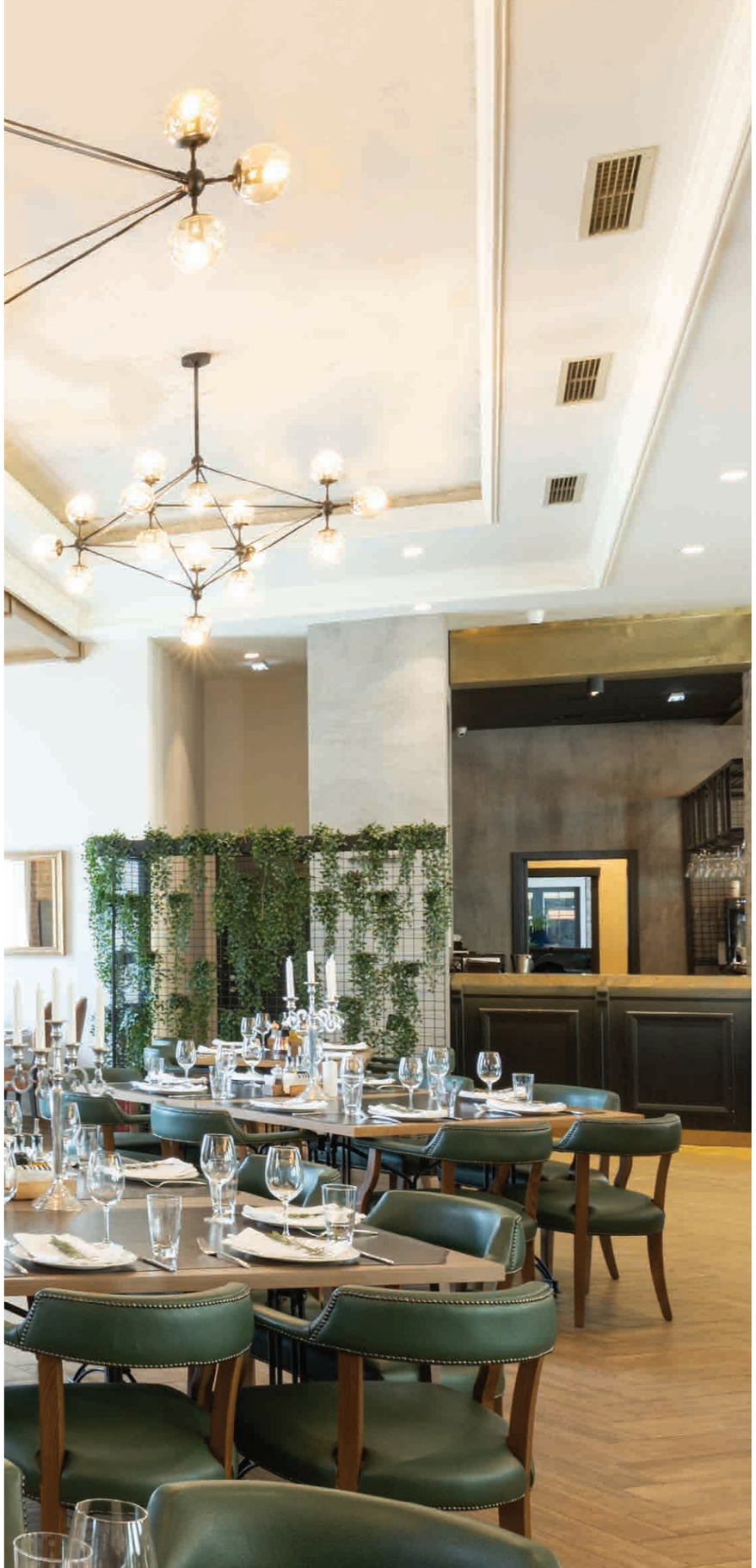
## FEATURES

Industry Leading ESP

Auto Air-Flow adjustment

Built-in drain pump

Installation Flexibility





## BENEFITS

Remote Control

RBC-ASCU11Y-ME

### Built-in high-lift drain pump

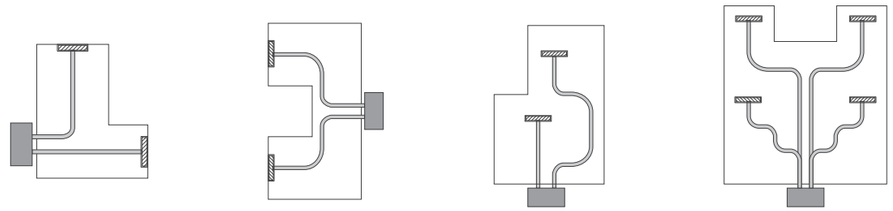
A drain-pump kit is used to create a flexible piping layout that can be raised up to 850mm. This kit is a standard feature for sizes 18-48 and is optional for size 60.

### Auto Air-Flow adjustment

Toshiba's built in DC inverter fan motor chooses the most suitable fan curve to ensure the highest level of comfort.

### 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 even temperature distribution, irrespective of the complexity of layouts.



Polygonal rooms | Narrow rooms | Rooms with fixture and obstacles

1.5 Ton; Maximum 120Pa & 1,500 m3/h (30Pa)
2.0 Ton; Maximum 120Pa & 1,500 m3/h (30Pa)
2.5 Ton; Maximum 160Pa & 2,000 m3/h (50Pa)

3.0 Ton; Maximum 180Pa & 2,300 m3/h (50Pa)
4.0 Ton; Maximum 180Pa & 3,000 m3/h (50Pa)
5.0 Ton; Maximum 250Pa & 3,600 m3/h (50Pa)

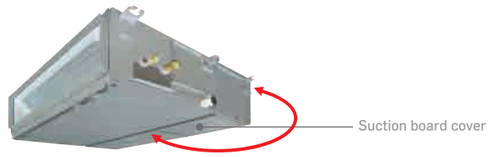
## Standard duct

| Product Specifications | | Indoor Outdoor | RAV-SH1801BP-AE RAV-SHB1801AP-AE | RAV-SH2401BP-AE RAV-SHB2401AP-AE | RAV-SH3001BP-AE RAV-SHB3001AP-AE | RAV-SH3601BP-AE RAV-SHB3601AP-AE | RAV-SH4801BP-AE RAV-SHB4801A8P-AE | RAV-SH6001BP-AE1 RAV-SHB6001A8P-AE |
|---|---|---|---|---|---|---|---|---|
| Power Supply | | | 1 phase 220V-240V 50Hz | | | 3Phase 380-415V 50Hz | | |
| T1 | Cooling Capacity (Max) | kW | 6.0 | 8.0 | 10.0 | 11.2 | 15.9 | 19.0 |
| | Cooling Capacity (Rated) | kW | 5.30 | 6.60 | 8.80 | 10.10 | 12.50 | 14.20 |
| | Total Input (Rated) | kW | 1.48 | 1.91 | 2.48 | 2.92 | 3.62 | 3.94 |
| | EER (Rated) | W/W | 3.58 | 3.46 | 3.55 | 3.46 | 3.45 | 3.60 |
| T3 | Cooling Capacity (Maximum) | kW | 4.66 | 6.20 | 7.75 | 9.32 | 13.0 | 14.2 |
| | Cooling Capacity (Rated) | kW | 4.50 | 5.61 | 7.50 | 8.60 | 11.00 | 12.6 |
| | Total Input (Rated) | kW | 1.85 | 2.31 | 3.09 | 3.52 | 4.51 | 4.51 |
| | EER (Rated) | W/W | 2.43 | 2.43 | 2.43 | 2.44 | 2.44 | 2.79 |
| **Indoor Unit** | | | | | | | | |
| Outer Dimension | Height | (mm) | 275 | 275 | 275 | 298 | 298 | 448 |
| | Width | (mm) | 1000 | 1000 | 1400 | 1400 | 1400 | 1400 |
| | Depth | (mm) | 750 | 750 | 750 | 750 | 750 | 900 |
| Airflow | H / M / L | m3/h | 1500 / 900 / 800 | 1500 / 1080 / 900 | 2000 / 1700 / 1200 | 2300 / 2000 / 1400 | 3000 / 2000 / 1600 | 3600 / 3240 / 2500 |
| | | l/s | 417 / 250 / 216 | 417 / 300 / 250 | 556 / 472 / 333 | 639 / 556 / 389 | 833 / 556 / 433 | 1000 / 900 / 694 |
| Sound Pressure Level | H / M / L | dB(A) | 41 / 38 / 33 | 41 / 39 / 36 | 42 / 41 / 38 | 44 / 43 / 39 | 53 / 50 / 41 | 44 / 40 / 36 |
| External Static Pressure | Factory Standard (Upper - Lower) | Pa | 130-30 | 130-30 | 160-30 | 180-30 | 180-30 | 250-50 |
| | Weight | Kg | 31 | 31 | 41 | 42 | 42 | 97 |
| Indoor Filter | | | Built-in | Built-in | TCB-LK1401D-E | TCB-LK1401D-E | TCB-LK2801DP-E | |
| **Outdoor Unit** | | | | | | | | |
| Outer Dimension | Height | (mm) | 550 | 630 | 890 | 890 | 1340 | 1340 |
| | Width | (mm) | 780 | 800 | 900 | 900 | 900 | 990 |
| | Depth | (mm) | 290 | 300 | 320 | 320 | 320 | 320 |
| | weight | Kg | 41 | 46 | 69 | 71 | 108 | 109 |
| Piping | Max Total Length | (m) | 35 | 35 | 35 | 35 | 50 | 50 |
| | Max Height Difference | (m) | 25 | 25 | 25 | 25 | 30 | 30 |
| Flare Connection | Gas side | (mm) | 12.7 | 15.9 | 15.9 | 15.9 | 15.9 | 19.1 |
| | Liquid side | (mm) | 6.4 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 |
| Sound pressure level | Cooling | (dB) | 47 | 52 | 54 | 57 | 63 | 63 |
| Operating Range | Cooling | (°C) | 21 - 54 | 21 - 54 | 21 - 54 | 21 - 54 | 21 - 54 | 21 - 54 |

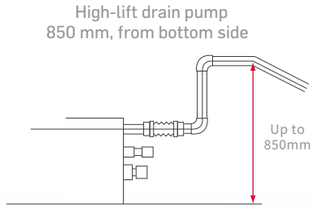
T1 :Capacity test condition, inside : 27 °C (Db) / 19 °C (Wb), outside : 35 °C (Db) / 24 °C (Wb)
T3 :Capacity test condition, inside : 29 °C (Db) / 19 °C (Wb), outside : 46 °C (Db) / 26 °C (Wb
* The specifications may be subject to change without notice for purpose of improvement.

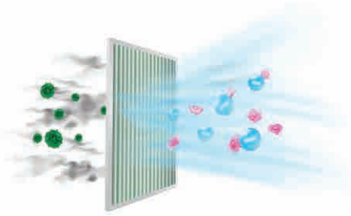
## Installation flexibility

- Drain pump is standard for models up to 48K
- Air filter is standard for models up to 30K
- Back or under air intake is possible
- High-lift drain pump



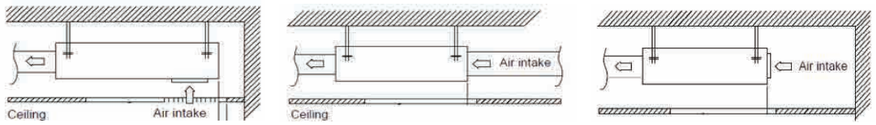

Installation is flexible by changing from the back to the under air intake.
Suction board cover can be fixed either at the bottom or the back of unit.



Long life filter included

### Various installation options for air suction




## Compact sizing

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

### Flexible ducting

- Design flexibility
- Max. 180Pa with DC motor

### Flexible Installation

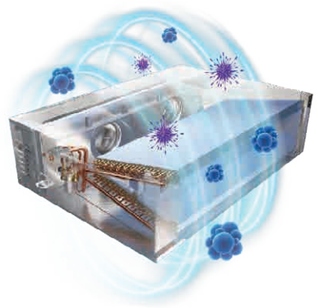
- Back or under air intake
- High-lift drain pump
  (850 mm. from the bottom side)

## Self-clean operation

Automatic washing of the aqua resin-coated indoor unit fins using condensate water prevents dust accumulation and the spread of mold.

## Aqua resin-coated Magic coil in FCU

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



Magic Coil heat exchanger

# 4-way cassette

Black & White

# FEATURES

## Efficiency

The Toshiba 4-way inverter cassette incorporates several energy-saving technologies to improve operational efficiency and 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 efficient DC Fan motor

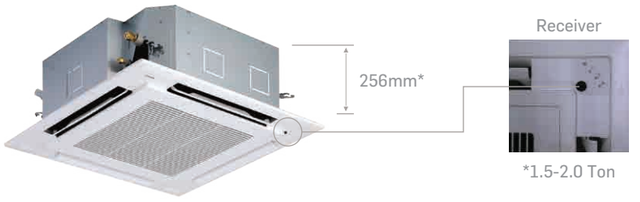
Optimizes DC Fan motor for fan and heat exchanger.

### Large opening of AC vent

Enlarging the AC vent to reduce the noise caused by large air volume.

## Compact sizing

Compact size, especially height (256mm) offers wide installation flexibility to the customer.

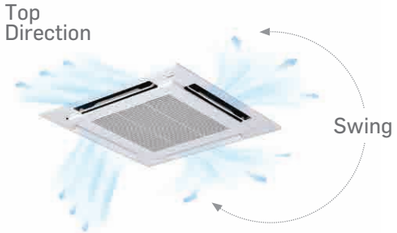



*1.5-2.0 Ton

## Comfort

You can control each louver separately, allowing for precise management of the air-flow direction.

Top Direction



Swing

Bottom Direction

The air-flow does not reach an occupant who may be feeling cold, directly.

Side flow

Swing flow

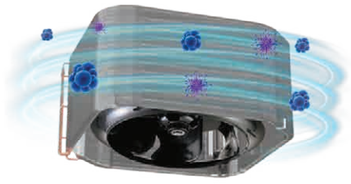
Direct air-flow to an occupant who may be feeling warmer than others

## Self-clean operation

Automatic washing of the aqua resin 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 prevents dust accumulation and the spread of mold. After washing, a drying operation suppresses mold build-up.



Magic Coil heat exchanger

## Fireproof electrical enclosure

Entirely fireproof electrical enclosures for indoor and outdoor units ensure safety by preventing fire spread, explosions, and fire-burn.

Power Surge Protection

Electric Current Stabilization

Anti-Corrosion Coating

# 4-Way Cassette

| Product Specifications | | Indoor / Outdoor | RAV-SH1801BP-AE / RAV-SHB1801AP-AE | RAV-SH2401BP-AE / RAV-SHB2401AP-AE | RAV-SH3001BP-AE / RAV-SHB3001AP-AE | RAV-SH3601BP-AE / RAV-SHB3601AP-AE | RAV-SH4801BP-AE / RAV-SHB4801A8P-AE |
|---|---|---|---|---|---|---|---|
| Power Supply | | | 1 phase 220V-240V 50Hz | | | 3Phase 380-415V 50Hz | |
| T1 | Cooling Capacity (Maximum) | kW | 6.00 | 8.00 | 10.0 | 11.20 | 15.90 |
| | Cooling Capacity (Rated) | kW | 5.30 | 7.10 | 8.80 | 10.60 | 12.50 |
| | Total Input (Rated) | kW | 1.48 | 2.06 | 2.45 | 2.97 | 3.61 |
| | EER (Rated) | W/W | 3.58 | 3.45 | 3.59 | 3.57 | 3.46 |
| T3 | Cooling Capacity (Maximum) | kW | 4.66 | 6.2 | 7.75 | 9.32 | 13.0 |
| | Cooling Capacity (Rated) | kW | 4.50 | 6.03 | 7.5 | 9.60 | 10.95 |
| | Total Input (Rated) | kW | 1.85 | 2.49 | 3.09 | 3.74 | 4.51 |
| | EER (Rated) | W/W | 2.47 | 2.42 | 2.43 | 2.43 | 2.43 |
| **Indoor Unit** | | | | | | | |
| Outer Dimension (Main Unit) | Height | (mm) | 256 | 256 | 319 | 319 | 319 |
| | Width | (mm) | 840 | 840 | 840 | 840 | 840 |
| | Depth | (mm) | 840 | 840 | 840 | 840 | 840 |
| Ceiling Panel (Sold Separately) | Height | (mm) | 30 | 30 | 30 | 30 | 30 |
| | Width | (mm) | 950 | 950 | 950 | 950 | 950 |
| | Depth | (mm) | 950 | 950 | 950 | 950 | 950 |
| Airflow | H / M / L | m3/h | 1050 / 870 / 780 | 1230 / 960 / 810 | 2100 / 1440 / 1170 | 2150 / 1500 / 1260 | 2300 / 1840 / 1500 |
| | | l/s | 292 / 242 / 217 | 342 / 267 / 225 | 583 / 400 / 325 | 639 / 556 / 389 | 639 / 511 / 417 |
| Sound Pressure Level | H / M / L | dB(A) | 37 / 36 / 34 | 40 / 37 / 36 | 46 / 42 / 37 | 44 / 43 / 39 | 49 / 45 / 43 |
| Weight | Main Unit | kg | 20 | 20 | 24 | 24 | 24 |
| | Ceiling Panel | kg | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| Ceiling Panel (Sold Separately) | | | Model: RBC-U31PGXP(W)-IN1 | | | | |
| **Outdoor Unit** | | | | | | | |
| Outer Dimension | Height | (mm) | 550 | 630 | 890 | 890 | 1340 |
| | Width | (mm) | 780 | 800 | 900 | 900 | 900 |
| | Depth | (mm) | 290 | 300 | 320 | 320 | 320 |
| | Total weight | Kg | 41 | 46 | 69 | 71 | 108 |
| Piping | Max Total Length | (m) | 35 | 35 | 35 | 35 | 50 |
| | Max Height Difference | (m) | 25 | 25 | 25 | 25 | 30 |
| Flare Connection | Gas side | (mm) | 12.7 | 15.9 | 15.9 | 15.9 | 15.9 |
| | Liquid side | (mm) | 6.4 | 9.5 | 9.5 | 9.5 | 9.5 |
| Sound pressure level | Cooling | (dB) | 47 | 52 | 54 | 57 | 63 |
| Operating Range | Cooling | (°C) | 21 - 54 | 21 - 54 | 21 - 54 | 21 - 54 | 21 - 54 |

T1 :Capacity test condition, inside : 27 °C (Db) / 19 °C (Wb), outside : 35 °C (Db) / 24 °C (Wb)
T3 :Capacity test condition, inside : 29 °C (Db) / 19 °C (Wb), outside : 46 °C (Db) / 26 °C (Wb
* The specifications may be subject to change without notice for purpose of improvement.

Remote Control

RBC-ASCU11Y-ME

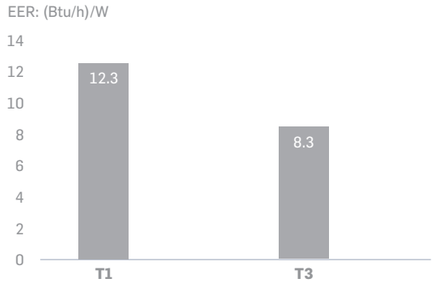
Wireless remote controller

# FEATURES THAT REDEFINE EFFICIENCY

Combining twin rotary compressors and all inverter-driven control in Toshiba's product guarantees accuracy and high efficiency

1.5 to 5.0 TR

Highest energy efficiency at T1 and T3



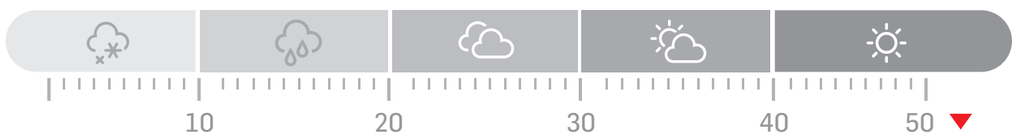

Condition
T1 : Indoor air temperature 27°C DB / 19°C WB, Outdoor air temperature 35°C DB
T3 : Indoor air temperature 29°C DB / 19°C WB, Outdoor air temperature 46°C DB

## 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.

## High operation range

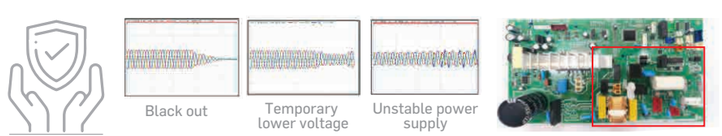
The Light Commercial-Inverter has a wide operating range complimented by the high reliability of twin rotary compressors.




Cooling up to 54˚C

## Protection circuit

The Light Commercial Inverter offers a protection circuit (as standard) that protects the PC board under an unstable power supply* and a function that detects incorrect wiring of the power supply for the 3-Phase product.



# FEATURES AND BENEFITS

## Inverter Technology

Inverter compressors continuously adjust their speed to meet temperature requirements while reducing energy and saving cost.

## Wide operating range

Top class cooling performance under extreme weather conditions upto 54C.

## Piping flexibility - Up to 50m

Extended piping lenghts allow high flexibility in design by covering long piping run applications.

## Reinforced anti corrosion

Anti corrosion protetion to with stand harsh weather conditions for a longer lifespan.

TOSHIBA

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