



Compact design and personalised air flow selection



# Efficient and reliable system

Thanks to Toshiba DC Hybrid Inverter technology the system operates at maximum capacity in order to reach the desired temperature quickly and when the required comfortable environment is achieved, the inverter adjusts its capacity to maintain it.

The twin rotary compressor makes the system very efficient, silent and reliable even when the outside temperature is down to -15°C.

### Comfort sleep

With the comfort sleep function activated the units gradually increases or decreases the temperature of the air delivered to compensate for naturally lower night temperature. The result is a complete comfort during the whole night. In addition, the quiet function lowers the sound levels to its minimum by operating the super low speed of the fan.

# **Compact design**

Toshiba designers and engineers have succeed in developing a powerful unit in a small compact structure.

With its modern lines and white colour blends perfectly in any

Occupy less space than a standard radiator and could be easily installed under a bay window or in a low ceiling attic.

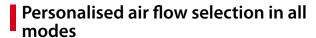




# Toshiba Bi-flow air delivery system

This feature enables users to select the favorable air flow outlet between the two available positioned at the top and bottom front of the unit.

The warm air distributed from the bottom front is a Toshiba original feature. The warm air flows in the room interior directly toward the floor.



User has a choice of up to five fan speed selectable manually or automatically.

Air flow direction can be customize dy selecting one of the several fixed positions or by activating the swing function that move regularly the outlet louver for a uniform air distribution. The result of these combinations is the possibility to find the perfect individual comfort in every working temperature condition.











# Floor warming mode



Unique floor warming mode innovative feature is inspired by the warmth of a fireplace.

With this option warm air is evenly distributed from the lower part of the console increasing the sense of comfort and well being.

This function can be quickly and easily activated by pressing a single button on the remote control.





### Self cleaning function

When you turn off your air conditioner, an internal fan automatically activates to dry out the coil. This useful function performs the moisture removal which is the main cause of mould formation.



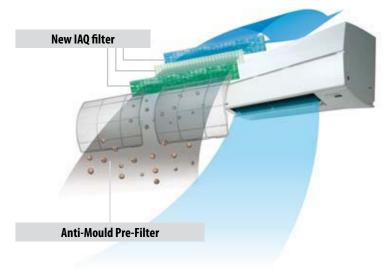
#### **Normal operation**

Moisture stays trapped inside during operation.

#### **Self cleaning function**

**20 minutes** of fan operation after shut down, the natural air flow dries the moist air and helps reduce mould formation.

### Toshiba new IAQ filter



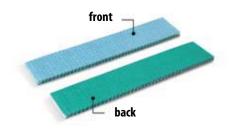


Toshiba new IAQ filter is the latest product of the Toshiba laboratories for improving the indoor air quality of the residential air conditioners.

The experience gathered with all the previous filtration devices has led to this highly effective device that purify the air without reducing the air flow capacity of the unit.

With this system the air becomes purer, fresher and healthier ensuring optimum comfort for the whole family.

- DEODORIZING POWER: absorbs and decomposes smoke, ammonia, volatile organics, food smells and bad odors.
- **ANTI-BACTERIA:** the oxidizing power of Nano Composite Photocatalyst destroys up to 99,9% of bacteria
- **ANTI-FUNGUS:** prevent and inhibits mould and fungi formation
- **ANTI-VIRUS:** tested for the avian flu H5N1 resulted effective after 8 hours in determinated testing condition.\*





# **Easy to use commands**

### **Smart user interface**

Toshiba console has a smart user interface embedded in the top panel of the unit.

The basic functions (on/off, temperature control, operation mode selection and air outlet selection) can be easily activated and monitored on the liquid crystal display.

Useful color icons show the active operating functions.

#### ADDITIONAL COMFORT FEATURES:

- · CHILD LOCK
- · DIMMER
- · AUTOMATIC RESTART



### Infrared remote control



#### 1. One Touch Preset

Store your desired settings and activate them at the touch of a button



#### 2. One Touch My Comfort

Toshiba has conducted extensive studies to assess customer behaviour in order to offer a combination of features that is perfect for you



#### 3. Quiet

The indoor will operate at the lowest noise level. It shifts to super-low fan speed, thereby reducing the sound of the indoor unit by 3dB



#### 4. Swing & Fix Louver

Select your optimum airflow by selecting from a range of Fixed and Swing louver positions



#### 5. Timer

Set on and off times or program a setting to repeat every 24 hours



### 6. Supreme heating

To activate the bottom louver in order to ensure a comfortable air conditioning



#### 7. Auto Diagnosis



### 8. Temperature control



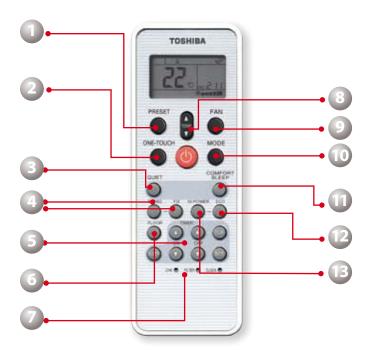
#### 9. Fan Speed

Control your airflow with five fan speeds or select Auto Fan Speed to let your air conditioner do the thinking



#### 10. Operating Mode

Select from Auto Changeover, Cooling, Drying (dehumidification), Fan Only or Heating (only on heat pump models)





#### 11. Comfort Sleep

For optimum comfort, set the temperature to rise by 1°C after 1 hour, then another degree after 2 hours, which will be maintained until morning



#### 12. Eco-Logic

Achieve energy-savings of up to 25% compared with standard settings without sacrificing comfort



#### 13. Hi-Power

Extra airflow to rapidly reach your desired temperature setting



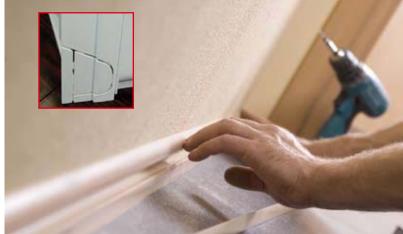
- **AUTOMATIC RE-START:** in case of the electrical power supply interruption, when the power returns, the unit automatically re-starts its operation keeping the operating parameters set before the interruption.

  Extremely useful in case of electrical power interruption during the night.
- with a child lock protection. In this way any pressure of the buttons will not produce any effect. This lock can be easily removed by pushing a simple sequence of buttons.

  A beep sound will advise the user when a button is pressed in child safe mode.
- **DIMMER:** with this function it is possible to reduce the brightness of the display leds. The unit display intensity will be dimmed and the function leds will be turned off, without affecting the operating conditions. If the console is installed in the bedroom the display will not glow in the dark.

# Floor or low wall application

Easy installation, no need to remove the plinth. The console unit is equipped with a pre-punched knockout section easy to detach in order to allow the perfect alignment of the unit against the wall.



# Installation flexibility







JET

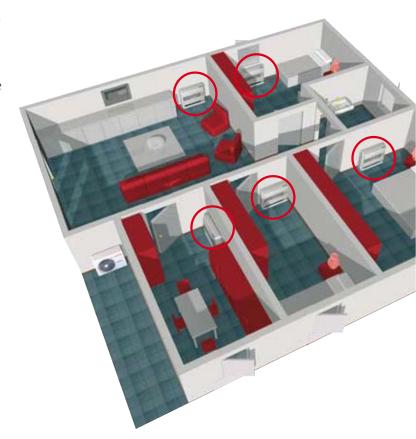
# Mono and multi split applications

Up to 5 console can be installed to one single outdoor unit for energy efficient operation in cooling and heating.

When it is necessary to install the console in a multiroom application, Toshiba multisplit systems offer the perfect answer for any kind of requirement. One outdoor unit is capable of operating 2, 3, 4 or 5 console units.

This powerful inverter outdoor unit can balance the load of the console ensuring great energy efficiency during operation. Multisplit systems can be installed in almost every interior, because the maximum pipe length exceed 25 meters.

Console units are available with three different capacity range from 3 to 6 kW.



COP > 4,20



# DC Hybrid inverter technology

Toshiba multi-splits are equipped with Toshiba DC hybrid inverter, an enhanced feature that ensures improved performance and reliability.

Thanks to the efficient DC compressors, these units provide fast and precise temperature management, with energy savings of 40 – 50% compared to fixed speed systems.

When the room temperature is different from the set point, the air conditioner operates at maximum capacity, ensuring that a comfortable temperature will be reached quickly. Once the desired temperature is reached, the inverter precisely adjusts the capacity to maintain a temperature close to the set point.





| Technical specifications heat pump       |          |   |                           |                           |                         |                         |
|--|----------|---|---------------------------|---------------------------|-------------------------|-------------------------|
| Outdoor unit                             |          |   | RAS-B10UFV-A              | RAS-B13UFV-A              | RAS-B16UFV-A            | RAS-B18UFV-A            |
| Indoor unit                              |          |   | RAS-10SAVR-A              | RAS-13SAVR-A2             | RAS-16UAVR-A            | RAS-18SAV2-A            |
| Cooling capacity                         | kW       | С | 2.4                       | 3.5                       | 4.5                     | 4.9                     |
| Cooling range (min. – max.)              | kW       | С | (1.1 - 3.1)               | (1.1 - 4.1)               | (1.0 - 5.7)             | (1.0 - 5.7)             |
| Power input (min – rated – max.)         | kW       | С | 0.60 (0.23 - 0.82)        | 1.02 (0.23 - 1.35)        | 1.45 (0.20 - 1.95)      | 1.63 (0.20 - 1.95)      |
| EER                                      | W/W      |   | 4.0                       | 3.43                      | 3.10                    | 3.01                    |
| Energy star rating prior before Apr 2010 |          | С | *****                     | *****                     | ****                    | ****                    |
| Energy star rating from Apr 2010         |          | С | ***                       | **                        | **                      | *                       |
| Heating capacity                         | kW       | Н | 3.2                       | 4.1                       | 5.0                     | 5.8                     |
| Heating range (min. – max.)              | kW       | н | (1.0 - 4.8)               | (1.0 - 5.4)               | (1.1 - 6.3)             | (1.1 - 6.3)             |
| Power input (min – rated – max.)         | kW       | н | 0.75 (0.18 - 1.40)        | 1.16 (0.18 - 1.70)        | 1.43 (0.20 - 2.20)      | 1.81 (0.20 - 2.20)      |
| COP                                      | W/W      |   | 4.27                      | 3.53                      | 3.50                    | 3.20                    |
| Energy star rating prior before Apr 2010 |          | н | *****                     | ****                      | ****                    | ****                    |
| Energy star rating from Apr 2010         |          | н | ****                      | **                        | **                      | **                      |
| Indoor unit                              |          |   | RAS-B10UFV-A              | RAS-B13UFV-A              | RAS-B16UFV-A            | RAS-B18UFV-A            |
| Air flow                                 | m³/h     | С | 468                       | 510                       | 600                     | 600                     |
| Sound pressure level (h/m/l)             | dB(A)    | С | 39/32/26                  | 41 / 33 / 27              | 46 / 40 / 34            | 46 / 40 / 34            |
| Sound power level                        | dB(A)    | С | 54                        | 55                        | 61                      | 61                      |
| Air flow                                 | m³/h     | н | 510                       | 552                       | 642                     | 642                     |
| Sound pressure level (h/m/l)             | dB(A)    | н | 39 / 32 / 26              | 42 / 33 / 29              | 46 / 40 / 34            | 46 / 40 / 34            |
| Sound power level                        | dB(A)    | н | 54                        | 55                        | 61                      | 61                      |
| Dimensions (h $\times$ w $\times$ d)     | mm       |   | 600 x 700 x 220           | 600 x 700 x 220           | 600 x 700 x 220         | 600 x 700 x 220         |
| Weight                                   | kg       |   | 16                        | 16                        | 16                      | 16                      |
| Outdoor unit                             |          |   | RAS-10SAVR-A              | RAS-13SAVR-A2             | RAS-16UAVR-A            | RAS-18SAV2-A            |
| Air flow                                 | m³/h l/s |   | 1800 - 500                | 2250 - 625                | 2160 - 600              | 2160 - 600              |
| Sound pressure level                     | dB(A)    | С | 46                        | 48                        | 49                      | 49                      |
| Sound power level                        | dB(A)    | С | 59                        | 61                        | 64                      | 64                      |
| Operating range                          | °C       | С | -10 ÷ 46                  | -10 ÷ 46                  | -10 ÷ 46                | -10 ÷ 46                |
| Sound pressure level                     | dB(A)    | н | 47                        | 50                        | 50                      | 50                      |
| Sound power level                        | dB(A)    | н | 60                        | 63                        | 65                      | 65                      |
| Operating range                          | °C       | н | -15 ÷ 24                  | -15 ÷ 24                  | -15 ÷ 24                | -15 ÷ 24                |
| Dimensions $(h \times w \times d)$       | mm       |   | 550 x 780 x 290           | 550 x 780 x 290           | 550 x 780 x 290         | 550 x 780 x 290         |
| Weight                                   | kg       |   | 35                        | 33                        | 41                      | 41                      |
| Compressor type                          | ,        |   | Single Rotary DC Inverter | Single Rotary DC Inverter | DC Twin Rotary Inverter | DC Twin Rotary Inverter |
| Flare connections - gas                  |          |   | 3/8"                      | 3/8"                      | 1/2"                    | 1/2"                    |
| Flare connections - liquid               | in       |   | 1/4"                      | 1/4"                      | 1/4"                    | 1/4"                    |
| Minimum pipe length                      | m        |   | 3                         | 3                         | 5                       | 5                       |
| Maximum pipe length                      | m        |   | 20                        | 20                        | 20                      | 20                      |
| Maximum height difference                | m        |   | 10                        | 10                        | 10                      | 10                      |
| Chargeless pipe length                   | m        |   | 15                        | 15                        | 15                      | 15                      |
| Power supply                             | V-ph-Hz  |   | 220-240/1/50              | 220-240/1/50              | 220-240/1/50            | 220-240/1/50            |

C = cooling mode H = heating mode

# **TOSHIBA**

Leading Innovation >>>

Notice: Toshiba is committed to continuously improving its product to ensure the highest quality and reliability standards, and to meet local regulations and market requirements. All features and specifications subject to change without prior notice.

Note: All images provided in this catalogue are used for illustration purposes only.

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