

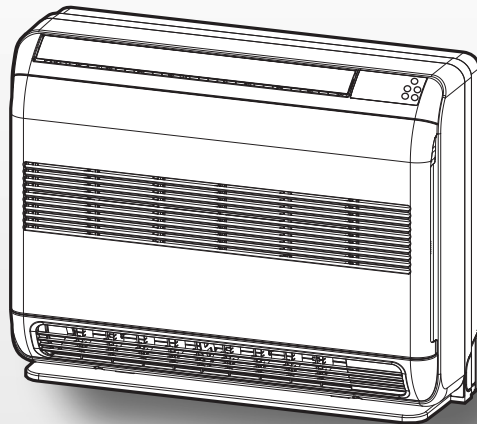
TOSHIBA

Leading Innovation >>>

OWNER'S MANUAL

R32

INVERTER



AIR CONDITIONER (SPLIT TYPE)

For general public use

Indoor unit

RAS-B10, 13, 18U2FVG-E



1112150199

PRECAUTIONS FOR SAFETY



Read the precautions in this manual carefully before operating the unit.



This appliance is filled with R32.

- Keep this manual where the operator can easily find it.
- Read the precautions in this manual carefully before operating the unit.
- This appliance is intended to be used by expert or trained users in shops, in light industry and on farms, or for commercial use by lay persons.
- The precautions described herein are classified as DANGER, WARNING and CAUTION. They both contain important information regarding safety. Be sure to observe all precautions without fail.

DANGER

- Do not install, repair, open or remove the cover. It may expose you to dangerous voltages. Ask the dealer or the specialist to do this.
- Turning off the power supply will not prevent potential electric shock.
- The appliance shall be installed in accordance with national wiring regulation.
- Means for disconnection from the supply having a contact separation of at least 3 mm in all poles must be incorporated in the fixed wiring.
- The appliance must be stored in a room without continuously operating ignition sources (for example, open flames, an operating gas appliance or an operating electric heater).
- In order to avoid fire, explosion or injury, do not operate the unit when harmful gases (e.g. flammable or corrosive) are detected near the unit.

WARNING

- Do not expose your body directly to cool or warm air for a long time.
- Do not insert your finger or any article into the air inlet/outlet.
- When an abnormality (burning smell, etc.) occurs, stop the air conditioner and disconnect the power supply or turn off the breaker.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- This appliance is not intended for use by person (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- The air conditioner must be installed, maintained, repaired and removed by a qualified installer or qualified service person. When any of these jobs is to be done, ask a qualified installer or qualified service person to do them for you.
- Children should be supervised to ensure that they do not play with the appliance.
- Do not use any refrigerant different from the one specified (R32) for complement or replacement. Otherwise, abnormally high pressure may be generated in the refrigeration cycle, which may result in a failure or explosion of the product or an injury to your body.

PRECAUTIONS FOR SAFETY

- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
- Be aware that refrigerants may not contain an odour.
- Do not pierce or burn as the appliance is pressurized. Do not expose the appliance to heat, flames, sparks, or other sources or ignition. Else, it may explode and cause injury or death.
- Appliance and pipe-work shall be installed, operated and stored in a room with a floor area larger than A_{\min} m².

How to get A_{\min} m² : $A_{\min} = (M / (2.5 \times 0.22759 \times h_0))^2$

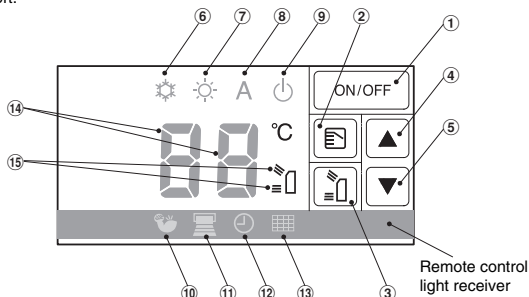
M is the refrigerant charge amount in appliance in kg. h_0 is the installation height of the appliance in m: 0.6 m for floor standing/1.8 m for wall mounted/1.0 m for window mounted/2.2 m for ceiling mounted. (For these units recommend installation height 1.0 m or less)

CAUTION

- Do not wash the unit with water. It may cause an electric shock.
- Do not use this air conditioner for other purposes such as preserving food, breeding animal, etc.
- Do not step or put anything on the indoor/outdoor unit. It may cause an injury or damage the unit.
- Do not touch aluminium fin because it may cause an injury.
- Before cleaning the unit, turn off the main switch or the circuit breaker.
- When the unit won't be used for a long time, turn off the main switch or the circuit breaker.
- It is recommended that maintenance be performed by a specialist when the unit has been operated for a long time.
- The manufacturer shall not assume any liability for the damage caused by not observing the description of this manual.

1 INDOOR UNIT DISPLAY & UNIT OPERATION PANEL

This indoor unit can be operated with the unit operation panel or using remote control. Operational contents will be followed the one which was operated later. If change the set temperature with operation panel of unit, temperature indication will be changed, but the temperature display on the remote control will not change. If set the air flow only with the upper port, a little air flow may happen at the lower port.

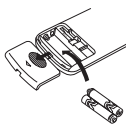


- ① OPERATION button : Unit operation ON/OFF button, turn off FILTER CHECK Indicator.
- ② MODE button : Operation mode (Auto→Cooling→Heating→Auto→...)
- ※ CHILD LOCK function : Press MODE button for 3 seconds. (It is possible to operate even when stopping.)
To cancel CHILD LOCK function, press MODE button for 3 seconds once again.
When CHILD LOCK function is activated, 3 beeps will sound.
When press MODE button to cancel the function, a beep will sound and then 3 seconds later 3 beep sound may occur.
The indicator button will be invalid while the child lock function is activated. (When press the button, 1 beep will sound).
Operation with remote control during the CHILD LOCK function works.
This function is cancelled when the power supply is off or failure.
- ③ AIR OUTLET SELECT button : Cooling, Auto (Upper & Lower→Upper→Upper & Lower→...)
Dry (upper only)
Heating (Upper & Lower→Upper→Lower→Upper & Lower→...)
On cooling operation, whichever air outlet is set, only Upper is used when the room temperature approaches the set temperature.
During stop operation : Open/close the lower air outlet grille.
When the TEMPERATURE indicator display "CL" the lower air outlet grille will be in closed status.
When the TEMPERATURE indicator display "OP" the lower air outlet grille will be in open status.
- ④ TEMPERATURE button (Up) : Setting temperature increase by 1°C (17°C→18°C→...30°C)
- ⑤ TEMPERATURE button (Down) : Setting temperature decrease by 1°C (30°C→29°C→...17°C)
- ⑥ COOL and DRY indicator (Blue)
- ⑦ HEAT indicator (Orange)
- ⑧ AUTO indicator (Green)
- ⑨ OPERATION indicator (Green)
- ⑩ HI-POWER indicator (Green)
- ⑪ FLOOR indicator (Orange)
- ⑫ TIMER indicator (Yellow)
- ⑬ FILTER CHECK indicator (Red)
- ⑭ TEMPERATURE indicator (Blue)
- ⑮ AIR OUTLET indicator (Green)

2 PREPARATION BEFORE USE

Preparing Filters

1. Open the air inlet grille and remove the air filters.
2. Attach the attachment filters (see detail in the accessory sheet).



Loading Batteries

1. Remove the battery cover.
2. Insert 2 new batteries (AAA type) following the (+) and (-) positions.

Removing the batteries

1. Remove the cover, and take out the batteries.
2. Reattach the cover.
 - Please dispose of the batteries according to the local regulation.

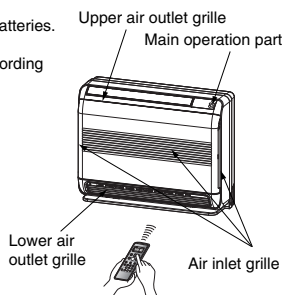
Clock Setup

1. Push CLOCK • by tip of the pencil.
If timer indication is flashing, go to the next step 2.

2. Press or : adjust the time.
3. Press : Set the time.

Remote Control Reset

1. Remove the batteries.
2. Press .
3. Insert the batteries.



3 AIR FLOW DIRECTION

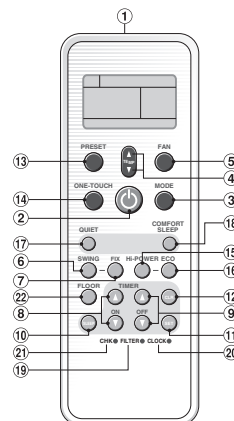
1	Press : Move the louver in the desired vertical direction.	
2	Press : Swing the air automatically and press again to stop.	
3	For horizontal direction, adjust manually.	

Note:

- Do not move the vertical louver manually by others.
- The vertical louver may automation positioning by some operation mode.
- On heating operation, in case of AIR OUTLET SELECT is set as Lower, upper louver is not operate even if swing is set by remote, though receiving history is recorded.
- When changed the air flow to up/down or upward blowing, the swing operation will be performed.
- At the time of FLOOR WARMING OPERATION, the air will blow downward only and it cannot order to swing operation with remote control.

4 REMOTE CONTROL

- ① Infrared signal emitter
- ② Start/Stop button
- ③ Mode select button (MODE)
- ④ Temperature button (TEMP)
- ⑤ Fan speed button (FAN)
- ⑥ Swing louver button (SWING)
- ⑦ Set louver button (FIX)
- ⑧ On timer button (ON)
- ⑨ Off timer button (OFF)
- ⑩ Sleep timer button (SLEEP)
- ⑪ Setup button (SET)
- ⑫ Clear button (CLR)
- ⑬ Memory and Preset button (PRESET)
- ⑭ One-Touch button (ONE-TOUCH)
- ⑮ High power button (HI-POWER)
- ⑯ Economy button (ECO)
- ⑰ Quiet button (QUIET)
- ⑱ Comfort sleep button (COMFORT SLEEP)
- ⑲ Filter reset button (FILTER)
- ⑳ Clock Reset button (CLOCK)
- ㉑ Check button (CHK)
- ㉒ Floor warming mode button (FLOOR)



5 ONE-TOUCH

Press the "ONE-TOUCH" button for fully automated operation that is customized to the typical consumer preferences in your region of the world. The customized settings control temperature air flow strength, air flow direction and other settings to provide you alternate contact with "ONE-TOUCH" of the button. If you prefer other settings you can select from the many other operating functions of your Toshiba unit.

Press : Start the operation.

6 AUTOMATIC / COOLING (DRY) / HEATING OPERATION

1. Press : Select A. Cool , Dry , Heat .
2. Press : Set the desired temperature.
Min. 17°C, Max. 30°C.
3. Press : Select AUTO, LOW , LOW+ , MED , MED+ , or HIGH .

- ※ AUTOMATIC OPERATION : Choose cooling or heating operation automatically.
- ※ In DRY OPERATION mode, it can not select air volume.

7 HI-POWER OPERATION

To automatically control room temperature and airflow for faster Auto, cooling or heating operation (except in DRY mode).

Press : Start and stop the operation.

8 FLOOR WARMING OPERATION

Heating will operate with downward blowing only.
Temperature of air outlet will be higher than usual.

9 ECO OPERATION

To automatically control room temperature to save energy (except in DRY mode).

Press : Start and stop the operation.

Note: Cooling operation; the internal set temperature will increase automatically 1 degree by 2 hours (maximum 2 degrees increase). For heating operation the internal set temperature will decrease.

10 TIMER OPERATION

Set the timer when the air conditioner is operating.

	Setting the ON Timer	Setting the OFF Timer
1	Press : Set the desired ON timer.	Press : Set the desired OFF timer.
2	Press : Set the timer.	Press : Set the timer.
3	Press : Cancel the timer.	Press : Cancel the timer.

Daily timer allows the user to set both the ON & OFF timers and will be activated on a daily basis.

Setting Daily Timer

1	Press : Set the ON timer.	3	Press .
2	Press : Set the OFF timer.	4	Press : button during the (# or #) mark flashing.

• During the daily timer is activating, both arrows (#, #) are indicated.

Note:

- Keep the remote control in accessible transmission to the indoor unit; otherwise, the time lag of up to 15 minutes will occur.
- The setting will be saved for the next same operation.
- Press to cancel the daily timer operation.

11 PRESET OPERATION

Set your preferred operation for future use. The setting will be memorized by the unit for future operation (except airflow direction).

1. Select your preferred operation.
2. Press and hold until stop blinking and the mark displays.
3. Press : Operate the preset operation.

12 QUIET OPERATION

To operate at super low fan speed for quiet operation (except in DRY mode).

Press : Start and stop the operation.

Note: Under certain conditions, QUIET operation may not provide adequate cooling or heating due to low sound features.

13 COMFORT SLEEP OPERATION

For comfortable sleep, automatically control air flow and automatically turn OFF (Except in DRY mode).

1. Press : Select 1, 3, 5 or 9 hrs for OFF timer operation.
2. Press to cancel the comfort sleep operation.

Note: The cooling operation, the set temperature will increase automatically 1 degree/hour for 2 hours (maximum 2 degrees increase). For heating operation, the set temperature will decrease.

14 SLEEP TIMER OPERATION

To start the sleep timer (OFF timer) operation.

1. Press : Select 1, 3, 5 or 9 hrs for OFF timer operation.
2. Press to cancel the sleep timer operation.

15 AUTO RESTART OPERATION

To automatically restart the air conditioner after recovering from the power failure.

Setting

1. Press and hold OPERATION button on the indoor unit for 3 seconds to set the operation (3 beep sound and OPERATION lamp blink 5 time/sec for 5 seconds).
2. Press and hold OPERATION button on the indoor unit for 3 seconds to cancel the operation (3 beep sound but OPERATION lamp does not blink).

16 FILTER RESET

Firstly, turn off the circuit breaker.

FILTER lamp lights on; the filter must be cleaned.

To turn off the lamp, push OPERATION button on the indoor unit or the FILTER button on the remote control.

Note: The filter indicator turns on after about 1000 hours.

Indoor Unit and Remote Control

- Clean the indoor unit and the remote control with a wet cloth when needed.
- No benzene, thinner, polishing powder or chemically-treated duster.

17 SELF CLEANING OPERATION (COOL AND DRY OPERATION ONLY)

Cleaning operation

This function is used to dry the inside of the air conditioner to reduce the growth of mold, etc. inside the air conditioner.

- When the unit shuts down after having operated for 10 or more minutes in the cooling or dry mode, the cleaning operation is started automatically, and the TIMER indicator on the unit's display panel turns on.

Cleaning operation duration

- The cleaning operation lasts for 30 minutes if the unit has been operating in the cooling or dry mode for 10 minutes or more.

Note:

- SELF CLEANING operation is default setting from factory.
- How to cancel SELF CLEANING operation.
Press and hold MODE button on operation panel for more than 10 seconds (less than 20 seconds). When canceling, 4 beeps sound.
- How to activate SELF CLEANING operation.
Press and hold MODE button on operation panel for more than 10 seconds (less than 20 seconds). Then, 4 beeps will sound and operation lamp will blink for 5 seconds.

18 OPERATION AND PERFORMANCE

1. Three-minute protection feature: To prevent the unit from being activated for 3 minutes when suddenly restarted or switched to ON.
2. Preheating operation: Warm up the unit for 5 minutes before blowing warm air.
3. Warm air control: When the room temperature reaches the set temperature, the fan speed is automatically reduced and the outdoor unit will stop.
4. Automatic defrosting: Fans will stop during defrost operation.
5. Heating capacity: heat is absorbed from outdoor and released into the room. When the outdoor temperature is too low, use another recommended heating apparatus in combination with the air conditioner.
6. Consideration for accumulated snow: Select the position for outdoor unit where it will not be subjected to snow drifts, accumulation of leaves or other seasonal debris.
7. Some minor cracking sound may occur when unit operating. This is normal because the cracking sound may be caused by expansion/contraction of plastic.

Operation \ Temp.	Outdoor Temperature	Room Temperature
Heating	-15°C ~ 24°C	Less than 28°C
Cooling	-10°C ~ 46°C	21°C ~ 32°C
Dry	-10°C ~ 46°C	21°C ~ 32°C

※ Concerning multiple connections, please inquire to the dealership or refer to the catalog.

19 TROUBLESHOOTING (CHECK POINT)

The unit does not operate.	Cooling or Heating is abnormally low
<ul style="list-style-type: none"> The power main switch is turned off. The circuit breaker is activated to cut off the power supply. Stoppage of electric current. ON timer is set. 	<ul style="list-style-type: none"> The filters are blocked with dust. The temperature has been set improperly. The windows or doors are opened. The air inlet or outlet of the outdoor unit is blocked. The fan speed is too low. The operation mode is DRY.

Note: When there is an abnormality in the product, abnormal code (2 digits) will be displayed on the unit display panel. Please contact the dealership.

In case of multiple connection

- Check whether the operation mode is different from what has been selected for the units in the other rooms (The following combinations of operations cannot be performed: COOL and HEAT, DRY and HEAT).
- Select the same operation mode as for the other rooms.

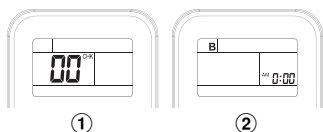
20 REMOTE CONTROL A-B SELECTION

To separate using of remote control for each indoor unit in case of 2 air conditioners are installed nearby.

Remote Control B Setup.

- Press RESET button on the indoor unit to turn the air conditioner ON.
- Point the remote control at the indoor unit.
- Push and hold **CHK** • button on the Remote Control by the tip of the pencil. "00" will be shown on the display. (Picture ①)
- Press **MODE** during pushing **CHK** •. "B" will show on the display and "00" will disappear and the air conditioner will turn OFF. The Remote Control B is memorized. (Picture ②)

Note: 1. Repeat above step to reset Remote Control to be A.
2. Remote Control A has not "A" display.
3. Default setting of Remote Control from factory is A.



22 CHANGE AIR OUTLET GRILLE ON STABLE TIME (COOLING ONLY)

On cooling operation, whichever air outlet is set, only Upper is used when the room temperature approaches the set temperature.
In case to keep up/down blowing, operate as below;
Press and hold AIR OUTLET SELECT button for more than 10 seconds (less than 20 seconds) (4 beeps will sound then "1" indication at TEMPERATURE indicator will light up for 5 seconds).
For return to the former status, press and hold AIR OUTLET SELECT button for more than 10 seconds once again (In this time, 4 beeps will sound then "0" indication at TEMPERATURE indicator will blink for 5 seconds).

23 AIR INLET GRILLE MAINTENANCE

Wash the air inlet grille with water using the soft sponge or towel.

- Dry it well in a shadow area after washing.
- Scour heavy dirt with neutral detergent for kitchen, and rinse it with the water (Do not use the wire wool).
- Do not press the front panel strongly. It may be cracked.

21 ADJUSTING BRIGHTNESS OF UNIT DISPLAY PANEL

- Press and hold AIR OUTLET SELECT button then press MODE button for 3 times (All lamp of the unit display panel will be switched on). (At that time, please press and hold the AIR OUTLET SELECT button)
- Press and hold AIR OUTLET SELECT button on Unit display panel, then press TEMPERATURE button (Up), (Down) for select the desired brightness.
- Brightness will be settled when AIR OUTLET SELECT button is released. Although the temperature indicator is switched off, if press the temperature button (up) and (down), the set temperature will be indicated, and then can adjust the temperature.
10 seconds after stopped pressing the button, the temperature indication will be switched off.

4 stages of brightness can be changed.

	Temperature indicator	Other lamp
1	Usual	Usual
2	Darkness	Darkness
3	Turn off	Darkness
4	Turn off	Turn off

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