

# TOSHIBA

Leading Innovation >>>

R32 or R410A

*AIR CONDITIONER (MULTI-SPLIT TYPE)*

## Owner's Manual

Indoor Unit

Model name:

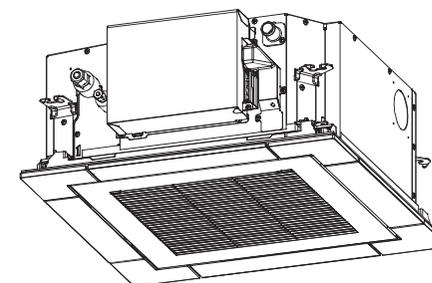
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Compact 4-Way Cassette Type

**RAS-M10U2MUVG-E**

**RAS-M13U2MUVG-E**

**RAS-M16U2MUVG-E**



**Original instruction**

**ADOPTION OF R32 or R410A REFRIGERANT**

This Air Conditioner has adopted a refrigerant HFC (R32 or R410A) which does not destroy the ozone layer.

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.  
Children should be supervised to ensure that they do not play with the appliance.

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.

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Thank you for purchasing this Toshiba air conditioner.

Please read carefully through these instructions that contain important information, and ensure that you understand them. After reading these instructions, be sure to keep them in a safe place together with the Owner's Manual and Installation Manual supplied with your product.

**Generic Denomination: Air Conditioner**

**Definition of Qualified Installer or Qualified Service Person**

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.

A qualified installer or qualified service person is an agent who has the qualifications and knowledge described in the table below.

Agent	Qualifications and knowledge which the agent must have
Qualified installer	<ul style="list-style-type: none"> <li>• The qualified installer is a person who installs, maintains, relocates and removes the air conditioners made by Toshiba Carrier Corporation. He or she has been trained to install, maintain, relocate and remove the air conditioners made by Toshiba Carrier Corporation or, alternatively, he or she has been instructed in such operations by an individual or individuals who have been trained and is thus thoroughly acquainted with the knowledge related to these operations.</li> <li>• The qualified installer who is allowed to do the electrical work involved in installation, relocation and removal has the qualifications pertaining to this electrical work as stipulated by the local laws and regulations, and he or she is a person who has been trained in matters relating to electrical work on the air conditioners made by Toshiba Carrier Corporation or, alternatively, he or she has been instructed in such matters by an individual or individuals who have been trained and is thus thoroughly acquainted with the knowledge related to this work.</li> <li>• The qualified installer who is allowed to do the refrigerant handling and piping work involved in installation, relocation and removal has the qualifications pertaining to this refrigerant handling and piping work as stipulated by the local laws and regulations, and he or she is a person who has been trained in matters relating to refrigerant handling and piping work on the air conditioners made by Toshiba Carrier Corporation or, alternatively, he or she has been instructed in such matters by an individual or individuals who have been trained and is thus thoroughly acquainted with the knowledge related to this work.</li> <li>• The qualified installer who is allowed to work at heights has been trained in matters relating to working at heights with the air conditioners made by Toshiba Carrier Corporation or, alternatively, he or she has been instructed in such matters by an individual or individuals who have been trained and is thus thoroughly acquainted with the knowledge related to this work.</li> </ul>
Qualified service person	<ul style="list-style-type: none"> <li>• The qualified service person is a person who installs, repairs, maintains, relocates and removes the air conditioners made by Toshiba Carrier Corporation. He or she has been trained to install, repair, maintain, relocate and remove the air conditioners made by Toshiba Carrier Corporation or, alternatively, he or she has been instructed in such operations by an individual or individuals who have been trained and is thus thoroughly acquainted with the knowledge related to these operations.</li> <li>• The qualified service person who is allowed to do the electrical work involved in installation, repair, relocation and removal has the qualifications pertaining to this electrical work as stipulated by the local laws and regulations, and he or she is a person who has been trained in matters relating to electrical work on the air conditioners made by Toshiba Carrier Corporation or, alternatively, he or she has been instructed in such matters by an individual or individuals who have been trained and is thus thoroughly acquainted with the knowledge related to this work.</li> <li>• The qualified service person who is allowed to do the refrigerant handling and piping work involved in installation, repair, relocation and removal has the qualifications pertaining to this refrigerant handling and piping work as stipulated by the local laws and regulations, and he or she is a person who has been trained in matters relating to refrigerant handling and piping work on the air conditioners made by Toshiba Carrier Corporation or, alternatively, he or she has been instructed in such matters by an individual or individuals who have been trained and is thus thoroughly acquainted with the knowledge related to this work.</li> <li>• The qualified service person who is allowed to work at heights has been trained in matters relating to working at heights with the air conditioners made by Toshiba Carrier Corporation or, alternatively, he or she has been instructed in such matters by an individual or individuals who have been trained and is thus thoroughly acquainted with the knowledge related to this work.</li> </ul>

These safety cautions describe important matters concerning safety to prevent injury to users or other people and damages to property. Please read through this manual after understanding the contents below (meanings of indications), and be sure to follow the description.

Indication	Meaning of Indication
 <b>WARNING</b>	Text set off in this manner indicates that failure to adhere to the directions in the warning could result in serious bodily harm (*1) or loss of life if the product is handled improperly.
 <b>CAUTION</b>	Text set off in this manner indicates that failure to adhere to the directions in the caution could result in slight injury (*2) or damage (*3) to property if the product is handled improperly.

- \*1: Serious bodily harm indicates loss of eyesight, injury, burns, electric shock, bone fracture, poisoning, and other injuries which leave aftereffect and require hospitalization or long-term treatment as an outpatient.
- \*2: Slight injury indicates injury, burns, electric shock, and other injuries which do not require hospitalization or long-term treatment as an outpatient.
- \*3: Damage to property indicates damage extending to buildings, household effects, domestic livestock, and pets.

#### MEANINGS OF SYMBOLS DISPLAYED ON THE UNIT

	<b>WARNING</b> (Risk of fire)	This mark is for R32 refrigerant only. Refrigerant type is written on nameplate of outdoor unit. In case that refrigerant type is R32, this unit uses a flammable refrigerant. If refrigerant leaks and comes in contact with fire or heating part, it will create harmful gas and there is risk of fire.
		Read the OWNER'S MANUAL carefully before operation.
		Service personnel are required to carefully read the OWNER'S MANUAL and INSTALLATION MANUAL before operation.
		Further information is available in the OWNER'S MANUAL, INSTALLATION MANUAL, and the like.

#### ■ Warning indications on the air conditioner unit

Warning indication	Description		
 <table border="1"> <tr> <td><b>WARNING</b></td> </tr> <tr> <td><b>ELECTRICAL SHOCK HAZARD</b> Disconnect all remote electric power supplies before servicing.</td> </tr> </table>	<b>WARNING</b>	<b>ELECTRICAL SHOCK HAZARD</b> Disconnect all remote electric power supplies before servicing.	<b>WARNING</b>  <b>ELECTRICAL SHOCK HAZARD</b> Disconnect all remote electric power supplies before servicing.
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# 1 Precautions for Safety

The manufacturer shall not assume any liability for the damage caused by not observing the description of this manual.

## WARNING

### General

- Carefully read Owner's Manual before starting the air conditioner. There are many important things to keep in mind for daily operation.
- Ask for installation to be performed by the dealer or a professional. Only a qualified installer (\*1) is able to install an air conditioner. If a non-qualified person installs an air conditioner, it may result in problems such as fire, electric shock, injury, water leakage, noise and vibration.
- Do not use any refrigerant different from the one specified 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.
- Places where the operation sound of the outdoor unit may cause a disturbance. (Especially at the boundary line with a neighbour, install the air conditioner while considering the noise.)

### Transportation and storage

- To transport the air conditioner, wear shoes with protective toe caps, protective gloves, and other protective clothing.
- To transport the air conditioner, do not take hold of the bands around the packing carton. You may injure yourself if the bands should break.
- Before stacking the packing cartons for storage or transportation, heed the precautions written on the packing cartons. Failure to heed the precautions may cause the stack to collapse.
- The air conditioner must be transported in stable condition. If any part of the product broken, contact your dealer.
- When the air conditioner must be transported by hand, carry it by two or more people.

### Installation

- Only a qualified installer(\*1) or qualified service person(\*1) is allowed to carry out the electrical work of the air conditioner. Under no circumstances must this work be done by an unqualified individual since failure to carry out the work properly may result in electric shocks and / or electrical leaks.
- After the installation work has been completed, have the installer explain about the circuit breaker positions. In the event that trouble has occurred in the air conditioner, set the circuit breaker to the OFF position, and contact a service person.
- If the unit is installed in a small room, take appropriate measures to prevent the refrigerant from exceeding the limit concentration even if it leaks. Consult the dealer from whom you purchased the air conditioner when you implement the measures. Accumulation of highly concentrated refrigerant may cause an oxygen deficiency accident.
- Do not install the air conditioner in a location that may be subject to a risk of expire to a combustible gas. If a combustible gas leaks and becomes concentrated around the unit, a fire may occur.
- Use the company-specified products for the separately purchased parts. Use of non-specified products may result in fire, electric shock, water leakage or other trouble. Have the installation performed by a professional.
- Confirm that earthing is performed correctly.

### Operation

- Before opening the intake grille of the indoor unit or service panel of the outdoor unit, set the circuit breaker to the OFF position. Failure to set the circuit breaker to the OFF position may result in electric shocks through contact with the interior parts. Only a qualified installer(\*1) or qualified service person(\*1) is allowed to remove the intake grille of the indoor unit or service panel of the outdoor unit and do the work required.
- Inside the air conditioner are high-voltage areas and rotating parts. Due to the danger of electric shocks or of your fingers or physical objects becoming trapped in the rotating parts, do not remove service panel of the outdoor unit. When work involving the removal of these parts is required, contact a qualified installer or a qualified service person.
- Do not move or repair any unit by yourself. Since there is high voltage inside the unit, you may get electric shock when removing the cover and main unit.

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- Use of a stand more than 50 cm high to clean the filter of the indoor unit or to carry out other such jobs constitutes working at heights. Due to the danger of falling off the stand and injuring yourself while working at heights, this kind of work should not be done by unqualified individuals. When this kind of work must be carried out, do not do it yourself but ask a qualified installer or a qualified service person to do it for you.
  - Do not touch the aluminum fin of the outdoor unit. You may injure yourself if you do so. If the fin must be touched, do not touch it yourself but contact a qualified installer or a qualified service person.
  - Do not climb onto or place objects on top of the outdoor unit. You may fall or the objects may fall off of the outdoor unit and result in injury.
  - Do not place any combustion appliance in a place where it is directly exposed to the wind of air conditioner, otherwise it may cause imperfect combustion.
  - When the air conditioner is operated with a combustion appliance in the same place, ventilate the room sufficiently. Poor ventilation causes oxygen shortage.
  - When the air conditioner is used in a closed room, sufficiently ventilate the room. Poor ventilation causes oxygen shortage.
  - Do not expose your body to cool air directly for a long time and do not cool yourself excessively.  
Doing so may result in deteriorated physical condition and ill health.
  - Do not insert your finger or a stick into the air intake or discharge.  
Doing so may result injury as the fan is rotating at high speed inside the unit.
  - Consult the shop where you purchased the air conditioner if air conditioning (cooling and heating) is not performed properly as a refrigerant leakage may be the cause. Confirm the repair details with a qualified service person(\*1) when the repair includes additional charging of the refrigerant.
  - Stop running the air conditioner and turn off the breaker before cleaning.  
Otherwise, injury may result as the fan is rotating at high speed inside the unit.

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### **Repairs**

- When you have noticed that some kind of trouble (such as when a check display has appeared, there is a smell of burning, abnormal sounds are heard, the air conditioner fails to cool or heat or water is leaking) has occurred in the air conditioner, do not touch the air conditioner yourself but set the circuit breaker to the OFF position, and contact a qualified service person. Take steps to ensure that the power will not be turned on (by marking “out of service” near the circuit breaker, for instance) until qualified service person arrives. Continuing to use the air conditioner in the abnormal status may cause mechanical problems to escalate or result in electric shocks, etc.
- If the fan grille is damaged, do not approach the outdoor unit but set the circuit breaker to the OFF position, and contact a qualified service person to have the repairs done. Do not set the circuit breaker to the ON position until the repairs are completed.
- If you have discovered that there is a danger of the indoor unit’s falling, do not approach the indoor unit but set the circuit breaker to the OFF position, and contact a qualified installer or a qualified service person to refit the unit. Do not set the circuit breaker to the ON position until the unit has been refitted.
- If there is a danger of the outdoor unit’s toppling over, do not approach the outdoor unit but set the circuit breaker to the OFF position, and contact a qualified installer or a qualified service person to have the improvements or refitting done. Do not set the circuit breaker to the ON position until the improvements or refitting is completed.
- Do not customize the unit. Doing so may result in fire, electric shock or other trouble.

### **Relocation**

- When the air conditioner is to be relocated, do not relocate it yourself but contact a qualified installer or a qualified service person. Failure to relocate the air conditioner properly may result in electric shocks and / or a fire.
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## **⚠ CAUTION**

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### **Installation**

- Certainly lay the drain hose for perfect draining. Improper drainage may cause flooding in the house and getting furniture wet.
- Connect the air conditioner to an exclusive power supply of the rated voltage, otherwise the unit may break down or cause a fire.
- Confirm that the outdoor unit are fixed on the base. Otherwise, falling down of the units or other accidents may occur.

### **Operation**

- Do not use this air conditioner for special purpose such as preserving food, precision instruments, art objects, breeding animals, car, vessel.
- Do not touch any switches with wet finger, otherwise you may get an electric shock.
- If the air conditioner will not be used for a considerably long time, turn off the main switch or the circuit breaker, for safety.
- To make the air conditioner operate in its original performance, operate it within the range of the operating temperature specified in the instructions. Otherwise it may cause a malfunction, or water leak from the unit.
- Prevent any liquid from falling into the remote controller. Do not spill juice, water or any kind of liquid.
- Do not wash the air conditioner. Doing so may result in electric shock.
- Check whether the installation base and other equipment have become deteriorated after being used for a long time. Leaving them such condition may result in the unit's falling down and causing injury.
- Do not leave flammable sprays or other flammable materials near the air conditioner, and do not spray flammable aerosol directly to the air conditioner. They may catch fire.
- Stop running the air conditioner and turn off the breaker before cleaning.  
Otherwise, injury may result as the fan is rotating at high speed inside the unit.
- Ask for cleaning of the air conditioner to be performed by the dealer. Cleaning the air conditioner in an improper manner may cause damage to plastic parts, insulation failure of electric parts or other parts, and result in a malfunction. In the worst case, it may result in water leakage, electric shock, smoke emission or fire.

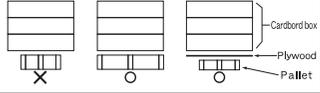
- Do not put a water container such as a vase on the unit.  
Water intrusion into the unit may occur and it may cause deterioration of electric insulation and result in electric shock.
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(\*1) Refer to the "Definition of Qualified Installer or Qualified Service Person."

## Information on the transportation, handling and storage of the carton

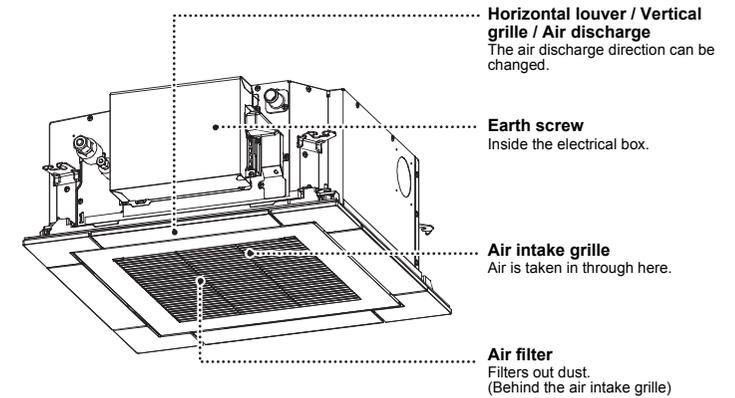
### Examples of indication on the carton

Symbol	Description	Symbol	Description
	Keep dry		Do not drop
 <b>FRAGILE</b>	Fragile		Do not lay down
 11 cartons	Stacking height (12 cartons can be stacked in this case)		Do not step
	This side up		Do not drop (corner)
	Handle with care		Do not roll

Other cautions	Description
 <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p><b>Caution</b></p> <p>Injury possibility. Don't handle with packing band, or may get injured in case of broken band.</p> </div>	<p><b>CAUTION</b></p> <p>Injury possibility. Don't handle with packing band, or may get injured in case of broken band.</p>
<p><b>Stacking notice.</b></p> <p>In case that cardboard boxes protrude out of pallet when stacking, lay a 10mm thick plywood over the pallet.</p> 	<p><b>Stacking notice.</b></p> <p>In case that cardboard boxes protrude out of pallet when stacking. Lay a 10 mm thick plywood over the pallet.</p>

## 2 Part Names

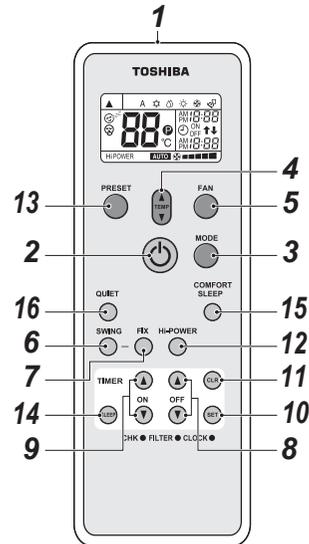
### Indoor unit



# 3 Wireless remote controller

## ■ Remote controller (WH-L11SE)

- Illustration of LCD shown below is for explanation. It may differ from the actual LCD.



### 1 Infrared signal emitter

Transmits a signal to the indoor unit.

### 2 START/STOP button

Push the button to start operation.  
(A receiving beep is heard.)  
Push the button again to stop operation.  
(A receiving beep is heard.)  
If no receiving sound is heard from the indoor unit, push the button twice.

### 3 Mode select button (MODE)

Push this button to select a mode.  
Each time you push the button, a mode is selected in a sequence that goes from A : Auto changeover control, : Cool, : Dry, : Heat, : Fan only, and back to A. (A receiving beep is heard.)

### 4 Temperature button ( )

... The set temperature is increased up to 30 °C.  
 ... The set temperature is dropped down to 17 °C.  
(A receiving beep is heard.)

### 5 Fan speed button (FAN)

Push this button to select fan speed. When you select AUTO, the fan speed is automatically adjusted according to the room temperature.  
You can also manually select the desired fan speed.  
(LOW , LOW+ , MED , MED+ , HIGH )  
(A receiving beep is heard.)

### 6 Auto louver button (SWING)

Push this button to swing the louver.  
(A receiving beep is heard.)  
Push the SWING button to stop the louver swinging.  
(A receiving beep is heard.)

### 7 Set louver button (FIX)

Push this button to adjust the airflow direction.  
(A receiving beep is heard.) It cannot be operated by holding down the button. Push the button with some interval.

### 8 Off timer button (OFF)

Push this button to set the OFF timer.

### 9 On timer button (ON)

Push this button to set the ON timer.

### 10 Reserve button (SET)

Push this button to reserve time settings.  
(A receiving beep is heard.)

### 11 Cancel button (CLR)

Push this button to cancel ON timer and OFF timer. (A receiving beep is heard.)

### 12 High power button (Hi-POWER)

Push this button to start the high power operation.

### 13 PRESET button

Push this button to change the operation mode to the preferred operation mode memorized previously. To memorize the operation mode, push this button for at least 3 seconds during the preferred operation mode.  
 is displayed and the operation mode is memorized.

### 14 SLEEP button

Push this button to start the OFF timer operation that automatically adjusts the room temperature and the fan speed.  
You can select the OFF timer time from four durations (1, 3, 5 or 9 hours).

### 15 COMFORT SLEEP button

Push this button to start the OFF timer operation that automatically adjusts the room temperature and the fan speed.  
You can select the OFF timer time from four durations (1, 3, 5 or 9 hours).

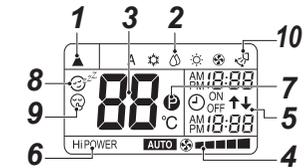
### 16 QUIET button

Push this button to start quiet operation.  
Pushing this button again will restore normal operation.

## ■ Names and functions of indications on wireless remote controller

### Display

All indications, except for clock time indication, are indicated by pushing the START/STOP button.



- In the illustration, all indications are indicated for explanation.  
During operation, only the relevant indications will be indicated on the remote controller.

### 1 Transmission mark

This transmission mark () indicates when the remote controller transmits signals to the indoor unit.

### 2 Mode display

Indicates the current operation mode.  
(A : Auto changeover control, : Cool, : Dry, : Heat, : Fan only)

### 3 Temperature display

Indicates the temperature setting (17 °C to 30 °C).  
When you set the operating mode to : Fan only, no temperature setting is indicated.

### 4 FAN speed display

Indicates the selected fan speed. AUTO or one of five fan speed levels (LOW , LOW+ , MED , MED+ , HIGH ) can be indicated.  
Indicates when the operating mode is : Dry.

### 5 TIMER and clock time display

The time set for timer operation or clock time is indicated.  
The present time is always indicated except for TIMER operation.

### 6 Hi POWER display

Indicates when the high power operation starts.  
Push the Hi-POWER button to start and push it again to stop the operation.

### 7 (PRESET) display

Indicated when memorizing the preferred operation mode or when it has been memorized.  
Also, this icon is indicated when the memorized preferred operation is displayed.

## 8 (COMFORT SLEEP) display

Indicated during the OFF timer operation that automatically adjusts the room temperature and the fan speed. Each time you push the COMFORT SLEEP button, the display changes in the sequence of 1h, 3h, 5h, and 9h.

## 9 (QUIET) display

Indicated during the quiet operation.

## 10 Swing display

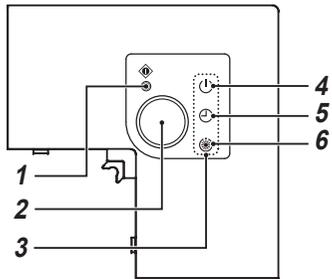
Indicated during the swinging operation where the horizontal louver automatically moves up and down.

### NOTE

When both wired remote controller or central controller and wireless remote controller are used, display on the screen of wireless remote controller may differ from the actual operation in some cases.

## ■ Signal receiving unit

The signal receiving unit is attached to the indoor unit.



### 1 Temporary operation button (See page 12)

### 2 Signal receiving part

The signal sent from the remote controller is received.

### 3 Display lamp

One of displays flashed while an error occurs. When the display lamp flashes, refer to "Before asking for repair work".

### 4 lamp (Green)

This lamp illuminates when unit is on.

### 5 lamp (Green)

This lamp illuminates while the timer is reserved.

### 6 lamp (Orange)

- In heating operation this lamp illuminates in the following cases:
  - The operation has started.
  - The temp. controller has worked.
  - The unit is under defrost operation.
- This lamp flashes while a trouble occurs.

### ⚠ CAUTION

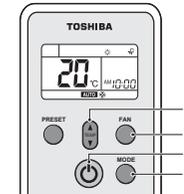
#### Disagreement in operation mode

- If "pi, pi" sound is heard, the display lamp goes on, and the  lamp and  lamp flash alternately, the operation is not performed with the desired mode.
- Even if you push START/STOP, MODE, TEMPERATURE buttons when remote controller operation is disabled by the central control or other means, "pi" is heard 5 times and the button operation is not accepted.

# 4 Operating unit

## ■ Cooling / Heating / Fan / Dry operation

### Start



### 1 START/STOP button ( )

Push this button to start the air conditioner.

### 2 Mode select button (MODE)

Select Cool , Heat , or Fan only , Dry .

### 3 Temperature button ( )

Set the desired temperature.

When the air conditioner is in FAN ONLY operation, the temperature display is not indicated.

### 4 Fan speed button (FAN)

Set a desired fan speed.

- The  OPERATION lamp (green) on the display lamp of the signal receiving unit goes on. And operation starts after approximately 3 minutes. (If you select FAN ONLY mode, the unit will start immediately.)
- The  : Fan only mode does not control temperature.
- AUTO** appears as the fan speed for the Dry operation, and the fan speed cannot be changed.

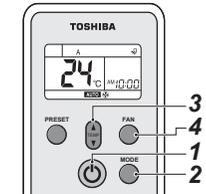
### Stop

#### START/STOP button ( )

Push this button again to stop the air conditioner.

## ■ Automatic operation (auto changeover)

### Start



### 1 START/STOP button ( )

Push this button to start the air conditioner.

### 2 Mode select button (MODE)

Select A.

### 3 Temperature button ( )

Set the desired temperature.

### 4 Fan speed button (FAN)

Set a desired fan speed.

- The  OPERATION lamp (green) on the display lamp of the signal receiving unit lights. The operating mode is selected in accordance with the room temperature and operation starts after approximately 3 minutes.
- If the "A" mode is uncomfortable, you can select the desired conditions manually.

### Stop

#### START/STOP button ( )

Push this button again to stop the air conditioner.

## ■ High power operation

### High power (Hi POWER)

The Hi POWER (high power operation) mode automatically controls room temperature, airflow and operation mode so that the room is quickly cooled in summer and warmed in winter.



### Setting Hi POWER mode

#### 1 Hi-POWER button

Push the Hi-POWER button after starting any operation. At the same time, the "Hi POWER" mark on the remote controller is indicated.

### Cancelling Hi POWER mode

#### 1 Hi-POWER button

Push the Hi-POWER button once again. At the same time, the "Hi POWER" mark on the remote controller goes out.

### ⚠ CAUTION

- The Hi POWER mode cannot be activated in the DRY and FAN ONLY operation and when the ON TIMER operation is reserved.
- When Auto changeover control mode is selected, the air conditioner does not automatically control the room temperature.

## ■ Quiet operation

The QUIET mode provides quiet operating status by automatically setting the fan speed to the lowest speed.



### Setting QUIET mode

#### 1 QUIET button

Push the QUIET button after starting any operation. At the same time, the  mark is indicated.

### Cancelling QUIET mode

#### 1 QUIET button

Push the QUIET button once again. At the same time, the  mark on the remote controller disappears.

- When the QUIET mode is cancelled, the fan speed changes to AUTO. You can change it to your preferred speed.

### ⚠ CAUTION

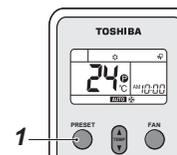
The QUIET mode cannot be activated in the DRY operation.

### NOTE

Under certain conditions, the quiet operation may not provide adequate cooling or heating due to the feature of quietness.

## ■ Preset operation

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



Select your preferred operation.

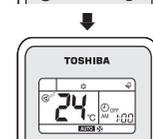
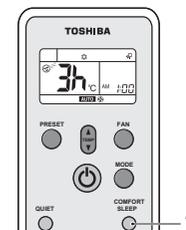
#### 1 Push the PRESET button for 3 seconds to memorize the setting.

The  mark is displayed.

When you push this button next time, the memorized operation mode will be enabled.

## ■ Comfort sleep operation

COMFORT SLEEP mode is a OFF timer operation with automatic temperature and fan speed adjustment.



#### 1 Push the COMFORT SLEEP button.

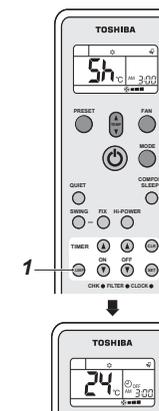
Select 1, 3, 5 or 9 hours for the OFF timer operation.

### ⚠ CAUTION

- The COMFORT SLEEP mode is not enabled in the DRY or FAN ONLY operation.
- When Auto changeover control mode is selected, the air conditioner does not automatically control the room temperature.

## ■ Sleep timer operation

To start the sleep timer (OFF timer) operation

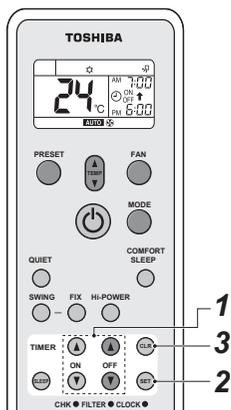


#### 1 Push the SLEEP button.

Select 1, 3, 5 or 9 hours for the OFF timer operation.

# 5 Operating unit with timer

## ON timer and OFF timer



### Setting TIMER

Set the timer during operation. The timer cannot be set if the air conditioner is not running.

#### 1 ON/OFF TIMER button (⏻ or ⏷)

Push the ON or OFF TIMER buttons as required.  
 • The previous timer setting is displayed and flashes along with ON/OFF timer display.

Set the timer to the desired time.

Each push of the TIMER button changes the time in ten minute steps.

Pushing the TIMER button continually changes the time in one hour step.

#### 2 SET button

Push the SET button to set the timer.  
 The timer time is indicated and the timer starts.

### Cancelling TIMER

#### 3 CLR button

Push the CLR button to cancel the timer setting.

### CAUTION

- When you select the timer operation, the remote controller automatically transmits the timer signal to the indoor unit at the specified time. Therefore, keep the remote controller in a location where it can transmit the signal to the indoor unit properly. Otherwise, the time lag of up to 15minutes will occur.
- If you do not push the SET button within 30 seconds after setting the time, the setting will be cancelled.

Once you select the timer operation mode, the settings are saved in the remote controller.

Thereafter, the air conditioner will start operating under the same conditions when you simply push the ON/OFF button of the remote controller.

If the clock display is flashing, you cannot set the timer. Follow the instructions in the section "Setting the clock" and then set the timer.

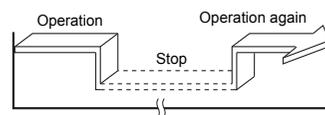
### Combined timer (Setting both ON and OFF timers simultaneously)

#### OFF timer → ON timer (Operation → Stop → Operation)

This feature is useful when you want to stop the air conditioner after you go to sleep, and start it again in the morning when you wake up or you return home.

Example:

To stop the air conditioner and start it again next morning.



#### Setting combined TIMER

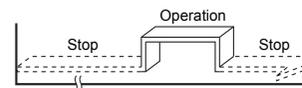
1. Push the OFF TIMER button to adjust the OFF timer.
2. Push the ON TIMER button to adjust the ON timer.
3. Push the SET button.

#### ON timer → OFF timer (Stop → Operation → Stop)

You can use this setting to start the air conditioner when you wake up and stop it when you leave the house.

Example:

To start the air conditioner next morning and stop it.



#### Setting combined TIMER

1. Push the ON TIMER button to adjust the ON timer.
2. Push the OFF TIMER button to adjust the OFF timer.
3. Push the SET button.

- Either ON or OFF timer function which is closer to the current time, is activated first.
- If the same time is set for both ON and OFF timers, no timer operation is performed. Also, the air conditioner may stop operating.

### Every day combined timer (setting both ON and OFF timer simultaneously and activate every day.)

This feature is useful when you want to use combined timer at the same time every day.

#### Setting combined TIMER

1. Push the ON TIMER button to adjust the ON timer.
2. Push the OFF TIMER button to adjust the OFF timer.
3. Push the SET button.
4. After step 3, an arrow mark (↑ or ↓) flashes for about 3 seconds and during this flashing, push the SET button.

During the every day timer is activating, both arrows (↑, ↓) are indicated.

### Cancel the timer operation

Push the CLR button.

### Clock display

During the TIMER operation (ON-OFF, OFF-ON, OFF timer) clock display is disappeared so as to show the setting time. To see the present time, push SET button briefly and the present time is displayed about 3 seconds.

## 6 Adjusting louver direction

- Never move the louver (air direction up / down adjusting plate) which is operated on the remote controller with hands except a case of cleaning the louver.
- While the air conditioner is not working, the louver (air direction adjusting plate) is closed automatically.
- During the preparation for heating, the louver is directed upward and it starts swinging after the preparation for heating is cancelled though the swing display on the remote controller shows swinging even during this period.
- The louver angle does not change immediately after the FIX button is pushed. Check the louver status, and push FIX button after a while.

### To set louver direction

Push FIX  button during operation. Louver direction changes each time you push the button.

### To start swinging

Push SWING  button on the remote controller. Louver swinging appears on the display and louver direction automatically changes up and down.

### Heating mode

Keep the louver pointed downward so that discharged hot air reaches the floor.

### Cooling / dry mode

Keep the louver pointed upward. Otherwise, dew drop may form around the discharge port and drop from the unit.

### To stop swinging

Push SWING  button once again while the louver is swinging. The louver can be stopped at a desired position.

### CAUTION

- The louver angle does not change if the FIX button is pushed during SWING operation. Stop the SWING operation before changing the louver angle.
- Do not operate the air conditioner for long hours with the airflow direction set downward during the cooling or dry operation. Otherwise, condensation may occur on the surface of the vertical airflow louver and cause dew dripping.

## 7 Adjustment of Wind Direction

For best cooling and heating performance, adjust the louvers (adjustment plates of up / down wind direction) appropriately. Cold air descends and warm air rises, so to heat a room tilt the louvers downward, and to cool a room tilt them horizontally.

### CAUTION

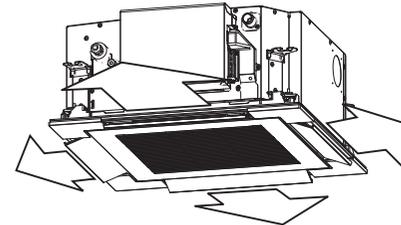
Direct the louvers horizontally for cooling.  
If the louvers stay pointed downward when cooling, condensation may form on the discharge port and / then drops from the louvers.

### NOTE

If the louvers stay pointed straight out horizontally when heating, the room temperature may be unevenly distributed.

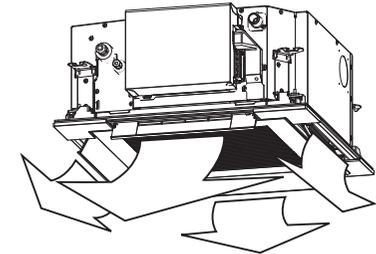
#### For cooling (COOL)

Direct the louvers horizontally.



#### For heating (HEAT)

Direct the louvers downward.



- When the air conditioner is not working, the louvers are directed horizontally automatically.
- The louvers are directed horizontally when heating begins, during defrost operation, or during the minimum operation after reaching the set temperature. When a swing or louver direction setting is made at this time, the remote controller display varies with the setting, but the louvers stay pointed straight out horizontally. When the air conditioner starts heating, the louvers are directed to the set direction.

## 8 Maintenance

### WARNING

Cleaning the air filter and other parts of the air filter involves dangerous work in high places, so be sure to have a qualified installer or qualified service person to do it.

Do not attempt it by yourself.

After the cooling or dry auto (cooling) operation has finished, the dry operation is performed and the fan starts running. When cleaning the unit, stop the drying operation forcibly and turn off the circuit breaker to avoid electric shock.

### Cleaning of the air filter

#### NOTE

For Air conditioning systems which are operated regularly, cleaning and maintenance of the indoor/outdoor units are strongly recommended.

As a general rule, if an indoor unit is operated for about 8 hours a day, the indoor/outdoor units will need to be cleaned at least once every 3 months.

Cleaning and maintenance shall be carried out by a qualified person.

Failure to clean the indoor/outdoor units regularly will result in poor performance, icing, water leaking or even compressor failure.

### Cleaning of the remote controller

### CAUTION

- Use a dry cloth to wipe the remote controller.
- A cloth dampened with cold water may be used on the indoor unit if it is very dirty.
- Never use a damp cloth on the remote controller.
- Do not use a chemically-treated duster for cleaning nor leave such materials on the unit for long. It may damage or fade the surface of the unit.
- Do not use benzene, thinner, polishing powder or similar solvents for cleaning. These may cause the plastic surface to crack or deform.

### If you do not plan to use the unit for more than 1 month

1. Operate the fan for 3 to 4 hours to dry inside of the unit.
  - Operate "FAN" mode.
2. Stop the air conditioner and turn off the main power switch or the circuit breaker.

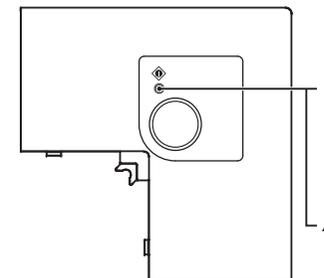
### Checks before operation

1. Check that the air filters are installed.
2. Check that the air outlet or inlet is not blocked.
3. Turn on the main power switch or the circuit breaker for the main power supply to the air conditioner.

## 9 Operating air conditioner without remote controller

In the following cases, the air conditioner can be operate without remote controller with temporary operation button on the signal receiving unit.

- The battery in the remote controller expired.
- A trouble occurred on the remote controller.
- The remote controller has been lost.



### 1 Start

Push temporary operation button.

### 2 Stop

Push temporary operation button once more.

# 10 Before asking for repair work

Check the following before asking for repair work.

Check again		
Phenomenon	Possible cause	Measures
Operation does not start even if the switch is turned on.	The air conditioner is not working or a power failure has occurred.	Push START/STOP  button on the remote controller again.
	The power switch is not turned on.	Turn on the power switch if it is off.
	The air conditioner is in the ON timer operation.	Cancel the timer operation.
	The batteries of the remote controller have been exhausted.	Replace the batteries.
	The LEDs on the signal receiving unit are not in normal state or operation mode is not correct.	Change the operation mode.
Is not the state of the display lamp "Disagreement of  (cool) and  (heat)" or "A (Automatic operation)"?	Change the operation mode.	
Dual swing, cycle swing, individual louver position, or power-saving cannot be set.	This type of remote controller cannot set such functions.	

Contact the dealer from whom you purchased the air conditioner.		
Phenomenon	Possible cause	
The LEDs flash.		Communication error between signal receiving unit and indoor unit or address setup error when the wired remote controller is used
		Communication error between indoor unit and outdoor unit
		The protective device of the indoor unit is activated.
		The protective device of the outdoor unit is activated.
		Temperature sensor error
		The compressor of the outdoor unit is protected.
		The air conditioner is performing a test run.

LEDs on the signal receiving unit ●: OFF : Blinking (at intervals of 0.5 seconds)

LED colour : Green : Green : Orange

Check those items. If any of those problems remains, stop the operation and turn off the power. Contact the dealer whom you purchased the air conditioner from. Convey the air conditioner model name, wireless remote controller kit model name, wireless remote controller model name, signal receiving unit model name and details of the error (including LED flashing state). Do not repair any unit by yourself as it is dangerous.

# 11 Installation

## Do not install the air conditioner in the following places

- Do not install the air conditioner in any place within 1 m from a TV, stereo, or radio set. If the unit is installed in such place, noise transmitted from the air conditioner affects the operation of these appliances.
- Do not install the air conditioner near a high frequency appliance (sewing machine or massager for business use, etc.), otherwise the air conditioner may malfunction.
- Do not install the air conditioner in a humid or oily place, or in a place where steam, soot, or corrosive gas is generated.
- Do not install the air conditioner in a salty place such as seaside area.
- Do not install the air conditioner in a place where a great deal of machine oil is used.
- Do not install the air conditioner in a place where it is usually exposed to strong wind such as in seaside area.
- Do not install the air conditioner in a place where sulfurous gas generated such as in a spa.
- Do not install the air conditioner in a vessel or mobile crane.
- Do not install the air conditioner in an acidic or alkaline atmosphere (in a hot-spring area or near a chemicals factory, or in a place subject to combustion emissions). Corrosion may be generated on the aluminum fin and copper pipe of the heat exchanger.
- Do not install the air conditioner near an obstacle (air vent, lighting equipment, etc.) that disturbs discharge air. (Turbulent airflow may reduce the performance or disable devices.)
- Do not use the air conditioner for special purposes such as preserving food, precision instruments, or art objects, or where breeding animals or growing plants are kept. (This may degrade the quality of preserved materials.)
- Do not install the air conditioner over an object that must not get wet. (Condensation may drop from the indoor unit at a humidity of 80 % or more or when the drain port is clogged.)
- Do not install the air conditioner in a place where an organic solvent is used.
- Do not install the air conditioner near a door or window subject to humid outside air. Condensation may form on the air conditioner.
- Do not install the air conditioner in a place where special spray is used frequently.

## Be careful with noise or vibrations

- Do not install the air conditioner in a place where noise by outdoor unit or hot air from its air discharge annoys your neighbors.
- Install the air conditioner on a solid and stable foundation so that it prevents transmission of resonating, operation noise and vibration.
- If one indoor unit is operating, some sound may be audible from other indoor units that are not operating.



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