

# TOSHIBA

AIR CONDITIONER (SPLIT TYPE)  
CLIMATISEUR (TYPE SPLIT)  
KLIMAGERÄT (SPLIT-SYSTEM)  
CONDIZIONATORE D'ARIA (TIPO SCOMPONIBILE)  
APARATO DE AIRE ACONDICIONADO (TIPO SPLIT)  
AR CONDICIONADO (TIPO SPLIT)  
AIRCONDITIONER (GESPLITST TYPE)  
ΚΛΙΜΑΤΙΣΤΙΚΟ ΜΗΧΑΝΗΜΑ (ΔΙΑΙΡΟΥΜΕΝΟΣ ΤΥΠΟΣ)

**OWNER'S MANUAL**  
**MANUEL DU PROPRIÉTAIRE**  
**BETRIEBSANLEITUNG**  
**MANUALE DEL PROPRIETARIO**  
**MANUAL DEL PROPIETARIO**  
**MANUAL DO UTILIZADOR**  
**GEBRUIKSAANWIJZING**  
**ΟΔΗΓΙΕΣΧΡΗΣΗΣ**

<High-Wall Type>/<Type mural haut>  
<Wandmontierter Typ>/<Tipo a condotto nascosto>  
<Modelo de pared>/<Tipo Mural>  
<Hoog-Wandtype>/<Τύπος Υψηλού Τοίχου>

Heat Pump Model/Modèle à thermopompe  
Geräte mit Heizung/Modello con pompa di riscaldamento  
Modelo con bomba de calor/Modelo de bomba térmica  
Model met warmtepomp/Μοντέλο με Αντλία Θερμότητας



Indoor Unit/Unité intérieure  
Raumeinheit/Unità interna  
Unidad interior/Unidade interior  
Binnenunit/Εσωτερική Μονάδα

**RAV-SM562KRT-E**  
**RAV-SM802KRT-E**

Thank you very much for purchasing TOSHIBA Air Conditioner.  
Please read this owner's manual carefully before using your Air Conditioner.  
• Be sure to obtain the "Owner's manual" and "Installation manual" from constructor (or dealer).  
Request to constructor or dealer  
Please clearly explain the contents of the Owner's manual and hand over it.

Nous vous remercions pour avoir choisi un climatiseur TOSHIBA.  
Veuillez lire attentivement ce Manuel du propriétaire avant d'utiliser votre climatiseur.  
• Assurez-vous que le constructeur (ou le revendeur) vous remette le "Manuel du propriétaire" et le "Manuel d'installation".

Demande au constructeur ou au revendeur  
Veuillez expliquer clairement le contenu du Manuel du propriétaire et le remettre au client.

Wir danken Ihnen, dass Sie sich für ein TOSHIBA Klimagerät entschieden haben.  
Bitte lesen Sie diese Betriebsanleitung, bevor Sie Ihr Klimagerät benutzen, sorgfältig.  
• Lassen Sie sich die "Betriebsanleitung" und das "Installations-Handbuch" unbedingt vom Installateur oder vom Lieferanten aushändigen.

Eine Bitte an den Installateur oder Lieferanten:  
Bitte erklären Sie dem Käufer den Inhalt der Betriebsanleitung und händigen sie ihm aus.

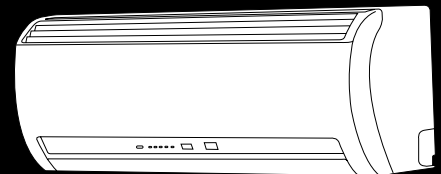
Grazie di aver acquistato un condizionatore d'aria TOSHIBA.  
Prima di usare il condizionatore d'aria, leggere con attenzione questo manuale del proprietario.  
• Si raccomanda di tenere a portata di mano il "Manuale del proprietario" e il "Manuale di installazione" ricevuti dal produttore (o dal rivenditore).  
Richiesta al produttore o al rivenditore  
Spiegare chiaramente il contenuto del Manuale del proprietario e consegnarne una copia all'utente.

Muchas gracias por haber adquirido el aparato de aire acondicionado TOSHIBA.  
Lea atentamente este manual del propietario antes de utilizar el aparato de aire acondicionado.  
• Asegúrese de que el fabricante (o distribuidor) le proporcione el "Manual del propietario" y el "Manual de instalación".  
Solicitud al fabricante o distribuidor  
Explique con claridad el contenido del Manual del propietario y entréguelo al cliente.

Muito obrigada por adquirir o Ar Condicionado TOSHIBA.  
Leia atentamente este manual do utilizador antes de utilizar o seu ar condicionado.  
• Não se esqueça de receber o "Manual do utilizador" e o "Manual de instalação" do fabricante (ou agente).  
Pedido ao fabricante ou agente  
Explique por favor o conteúdo do Manual do utilizador e entregue-o.

Hartelijk dank voor uw keuze voor een airconditioner van TOSHIBA.  
Lees deze gebruiksaanwijzing zorgvuldig door voordat u de airconditioner gaat gebruiken.  
• Zorg ervoor dat u zowel de 'gebruiksaanwijzing' als de 'installatiehandleiding' van de installateur (of leverancier) krijgt.  
Verzoek aan de installateur of de leverancier  
Leg de inhoud van de gebruiksaanwijzing duidelijk uit en overhandig de gebruiksaanwijzing nadien aan de klant.

Σας ευχαριστούμε πολύ που προτιμήσατε για την αγορά σας ένα Κλιματιστικό TOSHIBA.  
Παρακαλούμε διαβάστε προσεκτικά τις οδηγίες χρήσης πριν από τη χρήση του Κλιματιστικού.  
• Βεβαιωθείτε ότι ο κατασκευαστής (ή ο πωλητής) σας παρέδωσε και τις "Οδηγίες Χρήσης" και το "Εγχειρίδιο Εγκατάστασης".  
Παράκληση για τον κατασκευαστή ή τον πωλητή  
Παρακαλώ εξηγήστε με σαφήνεια τα περιεχόμενα των Οδηγιών Χρήσης και παραδώστε το.



## ADOPTION OF NEW REFRIGERANT

This Air Conditioner is a new type which adopts a new refrigerant HFC (R410A) instead of the conventional refrigerant R22 in order to prevent destruction of the ozone layer.

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## UTILISATION DU NOUVEAU REFRIGERANT

Ce climatiseur est d'un type inédit qui utilise le nouveau réfrigérant HFC (R410A) au lieu du réfrigérant traditionnel R22, afin d'éviter la destruction de la couche d'ozone.

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## EINFÜHRUNG EINES NEUEN KÜHLMITTELS

Dies ist ein neuartiges Klimagerät. Anstatt des herkömmlichen Kühlmittels R22 verwendet es das neue ozonschichtschonende HFC Kühlmittel R410A.

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## ADOZIONE DI UN NUOVO REFRIGERANTE

Questo condizionatore d'aria è di un tipo nuovo che adotta un nuovo refrigerante HFC (R410A) al posto del refrigerante convenzionale R22, per prevenire la distruzione dello strato di ozono dell'atmosfera terrestre.

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## ADOPCIÓN DE NUEVO REFRIGERANTE

Este aparato de aire acondicionado es un modelo reciente que incorpora el nuevo refrigerante HFC (R410A) en lugar del refrigerante convencional R22 para así evitar daños en la capa de ozono.

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## ADOPÇÃO DO NOVO REFRIGERANTE

Este ar condicionado é um modelo novo que adota um novo refrigerante HFC (R410A) em vez do refrigerante convencional R22 para evitar a destruição da camada de ozono.

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## TOEPASSING VAN EEN NIEUW KOELMIDDEL

Deze airconditioner is een nieuwe type dat werkt met een nieuw koelmiddel HFC (R410A) in plaats van met het conventionele koelmiddel R22, als bijdrage om de aantasting van de ozonlaag te reduceren.

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## ΥΙΟΘΕΤΗΣΗ ΝΕΟΥ ΨΥΚΤΙΚΟΥ

Το παρόν Κλιματιστικό είναι νέος τύπος που υιοθετεί νέο ψυκτικό HFC (R410A) στη θέση του συμβατικού ψυκτικού R22 προκειμένου να βοηθήσει στην προστασία του όζοντος.

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ΛΕΙΤΟΥΡΓΙΑ HI POWER .....	11	ΒΛΑΒΕΣ ΚΑΙ ΑΙΤΙΑ .....	27

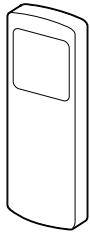
# MEMO

---

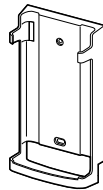
# ACCESSORIES

# AIR FILTER COMPONENTS

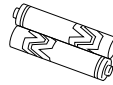
Remote controller



Remote controller holder



Batteries (two)



Sasa-Zeolite plus filters (two)



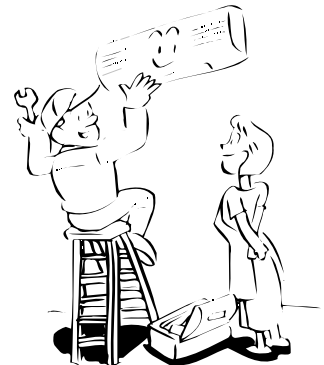
Bio-enzyme & Gingko filters (two)



## PRECAUTIONS FOR SAFETY

### DANGER

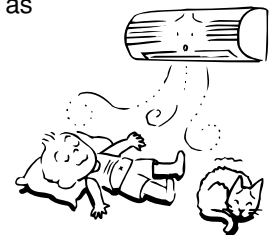
- DO NOT ATTEMPT TO INSTALL THIS UNIT BY YOURSELF. THIS UNIT REQUIRES QUALIFIED INSTALLER.
- DO NOT ATTEMPT TO REPAIR THE UNIT BY YOURSELF. THIS UNIT HAS NO COMPONENTS WHICH YOU CAN REPAIR.
- OPENING OR REMOVING THE COVER WILL EXPOSE YOU TO DANGEROUS VOLTAGES.
- TURNING OFF THE POWER SUPPLY WILL NOT PREVENT POTENTIAL ELECTRIC SHOCK.




### WARNING ⚠

#### WARNING ABOUT INSTALLATION

- Make sure to ask a dealer or a store specialized in electric work to install the air conditioner. If the air conditioner is imperfectly installed by yourself, it may cause some problems such as water leak, electric shock, fire, and so on.
- Ground the air conditioner without fail. Do not connect the ground wire to gas pipe, water pipe, lightning rod or ground wire of telephone. If the air conditioner is imperfectly grounded, it may cause electric shock.

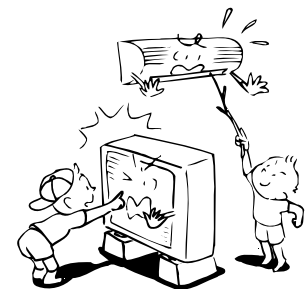


### CAUTION

TO DISCONNECT THE APPLIANCE FROM THE MAIN POWER SUPPLY  
This appliance must be connected to the main power supply by means of a circuit breaker or a switch with a contact separation of at least 3 mm.  
**The installation fuse (25A D type ) must be used for the power supply line of this conditioner.**

#### WARNING ABOUT OPERATION

- Avoid cooling the room too strong or exposing the human body to cool wind for a long time, because it is bad for the health.
- Do not insert fingers and sticks into the air outlet and air inlet to avoid getting injured and damaging the machine, because there are fans running at a high speed inside both the air inlet and air outlet.
- When you are aware of something abnormal with the air conditioner (smells something scorching, cools weak, etc.), immediately turn off the main switch, the circuit breaker, from the main power supply to stop the air conditioner, and make contact with the dealer.  
If the air conditioner is continuously operated with something abnormal, it may cause machine failure, electric shock, fire, and so on.
- Do not spill water or other liquid on the indoor unit. If the unit is wet, it may cause an electric shock.



#### WARNING ABOUT MOVEMENT AND REPAIR

- Do not move nor repair any unit by yourself. Since there is high voltage inside the unit, you may get an electric shock when removing the cover and main unit.
- When moving the air conditioner for re-installing in another place, ask the dealer to do it. If it is imperfectly installed, it may cause electric shock or fire.

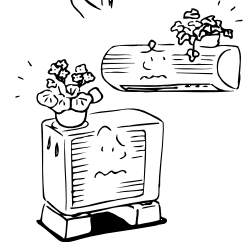
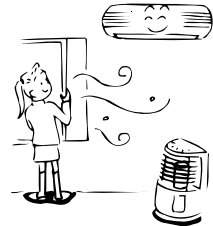
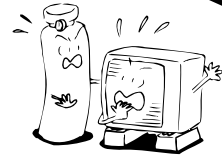
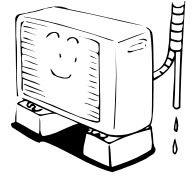


**CAUTION****CAUTIONS ABOUT INSTALLATION**

- Certainly lay the drain hose for perfect draining. Wrong drainage may cause flooding in the house and getting furniture wet.
- Make sure to connect the air conditioner to an exclusive power supply of the rated voltage; otherwise, the unit may break down or cause a fire.
- Do not install the unit in a place where inflammable gas may leak. If inflammable gas accumulates around the unit, it may cause a fire.

**CAUTIONS ABOUT OPERATION**

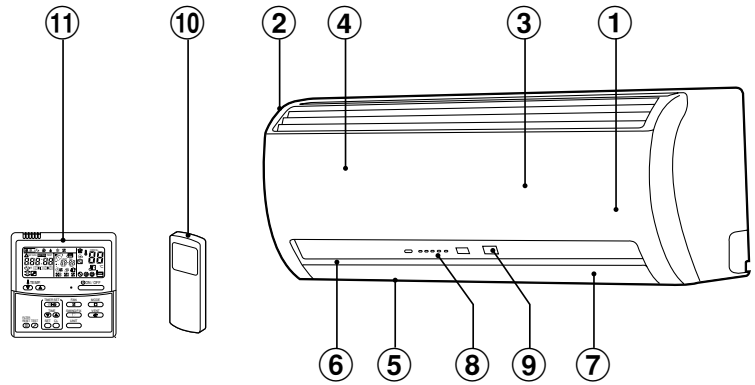
- Carefully read this manual before starting the air conditioner. The manual includes many important things for daily operation.
  - Do not use this air conditioner for other purposes such as preserving food, precision instruments, art objects, breeding animals, growing potted plants, etc.
  - Do not install this air conditioner in a special-purpose room such as a ship or any kind of vehicle, otherwise it deteriorates the machine performance.
  - Avoid exposing potted plants and animals to wind of the air conditioner, because it badly affects the health and growing of them.
  - When the air conditioner is operated together with a combustion appliance in the same place, be careful of ventilation to let fresh air into the room. Poor ventilation causes oxygen shortage.
  - When the air conditioner is used in a closed room, be careful of sufficient ventilation of the room. Poor ventilation causes oxygen shortage.
  - Do not touch operation button with wet finger; otherwise, you may get an electric shock.
  - Do not place any combustion appliance in a place where it is directly exposed to wind of the air conditioner; otherwise, it may cause imperfect combustion.
  - When the air conditioner won't be used for a considerably long time, turn off the main switch or the circuit breaker, for safety. Disconnection from the power supply prevents the unit from lightning and power source surge.
  - Do not put a vessel with water such as a vase on the unit, because water may possibly sink into the unit and will bring about electric shock because of deterioration in electric insulation.
  - Check the concrete blocks, etc. underneath the outdoor unit occasionally. If the base is left damaged or deteriorated, the unit may topple over and inflict an injury on a person as the worst case.
  - Do not wash the unit with water. It may cause an electric shock.
  - Do not use alcohol, benzene, thinner, glass cleaner, polishing powder, etc. for cleaning the unit, because they deteriorate or damage the air conditioner.
  - When cleaning the unit, make sure to turn off the main switch or circuit breaker beforehand for preventing you from getting injured by the electric fan running inside.
- For details of cleaning method, refer to "Maintenance" on page 24 and 25.
- Do not put anything on the outdoor unit nor step onto it. If you do so, it may not only topple over the unit but also injure yourself.
  - To make the air conditioner demonstrate its original performance, operate it within the range of the operating temperature specified in the instructions. Otherwise it may malfunction, break down or water may leak from the unit.



# PARTS NAME

## Indoor unit

- ① Room temperature sensor
- ② Front panel
- ③ Air inlet grille
- ④ Air filter
- ⑤ Air outlet
- ⑥ Horizontal air flow flap
- ⑦ Vertical air flow flap
- ⑧ Display panel
- ⑨ Infrared signal receiver
- ⑩ Remote controller (wireless)
- ⑪ Remote controller (wired, sold separately)

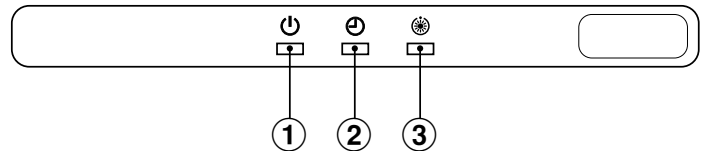


# NAMES AND FUNCTIONS OF INDICATORS AND CONTROLS ON INDOOR UNIT

## Display panel

The operating conditions are indicated below.

1. (OPERATION) lamp (green)  
This lamp goes on during operation.
2. (TIMER) lamp (green)  
This lamp goes on when the timer is reserved.



## NOTES

In case of timer setting by wired remote controller, lamp does not light.  
In case of twin and group combination, lamp goes on main unit only. (☞ see page 7.)

3. (STAND BY) lamp (orange)  
This lamp lights up when the power is turned on or right after heating operation starts or during defrost operation and thermo control.

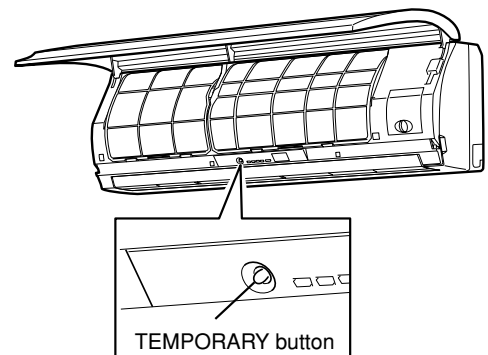
## CAUTION

When the power is turned on for the first time after installation, lamp lights up for approximately 5 minutes for setting of addresses of systems and units. When the power is turned on the next time, lamp lights up for approximately 1 minute.  
While the above lamp is on, all the commands from the remote controller cannot be received. However, this is not a malfunction or failure.

## TEMPORARY button

If you misplace or lose the remote controller or its batteries are exhausted, push the TEMPORARY button.

1. Open the air inlet grille to push the TEMPORARY button.  
You can lift the grille up to an angle wherever it will remain fixed.  
Do not lift the grille any further when it stops with a clicking sound.
2. Push the TEMPORARY button to start the air conditioner.  
Push this button once again to stop it. (☞ see page 23.)



# WIRELESS REMOTE CONTROLLER AND ITS FUNCTIONS

## 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 (TEMP.)

▲..... 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 from among five settings.

(LOW  , LOW+  , MED  , MED+  , HIGH  )

(A receiving beep is heard.)

## ⑥ Auto flap button (SWING)

Push this button to swing the flap.

(A receiving beep is heard.)

Push the SWING button to stop the flap swinging.

(A receiving beep is heard.) (☞ see page 14.)

## ⑦ Set flap button (FIX)

Push this button to adjust the air flow direction.

(A receiving beep is heard.) While this button is kept depressed, the receiving tone continuously sounds.

(☞ see page 14.)

## ⑧ On timer button (ON)

Push this button to set the ON timer.

To forward the time, push the “▲” button.

To set back the time, push the “▼” button.

## ⑨ Off timer button (OFF)

Push this button to set the OFF timer.

To forward the time, push the “▲” button.

To set back the time, push the “▼” button.

## ⑩ SLEEP button (SLEEP)

This function is not operated twin and group combination. (☞ see page 7.)

Push this button to start the SLEEP timer (OFF timer) operation.

You can select the OFF timer time from among four settings (1, 3, 5 or 9 hours). (☞ see page 22.)

## ⑪ Reserve button (SET)

Push this button to reserve time settings.


(A receiving beep is heard.)

## ⑫ Cancel button (CLR)

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

## ⑬ Memory and Preset button (PRESET)

Push this button to operate the air conditioner according to settings memorized by the unit for future operation.

Push the button again for more than 3 seconds to memorize the setting indicated on the remote controller and  mark is indicated. (☞ see page 13.)

## ⑭ Automatic operation button (AUTO)

Push this button to operate the air conditioner automatically. (A receiving beep is heard.)

## ⑮ High power button (Hi POWER)

This function is not operated twin and group combination. (☞ see page 7.)

Push this button to start the high power operation.  
(☞ see page 22.)

## ⑯ ECO button (ECO)

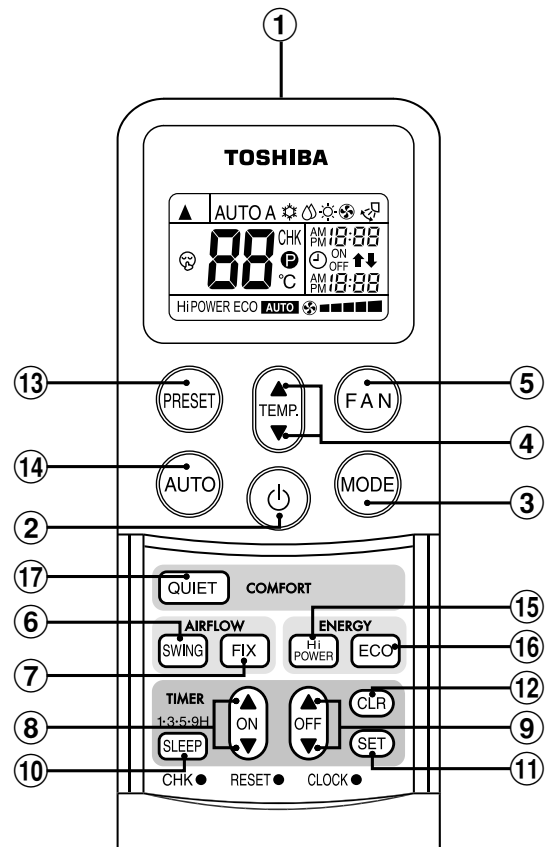
This function is not operated twin and group combination. (☞ see page 7.)

Push this button to start the ECO (save energy) operation. (☞ see page 22.)

## ⑰ QUIET button (QUIET)

This function is not operated twin and group combination. (☞ see page 7.)

Push this button to start the quiet operation.  
(☞ see page 22.)



# 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.

### 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.  
(AUTO : Automatic control, 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 AUTO when the operating mode is either AUTO or 💧 : 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 Hi POWER operation starts.  
Push the Hi POWER button to start and push it again to stop the operation.

### ⑦ ECO display

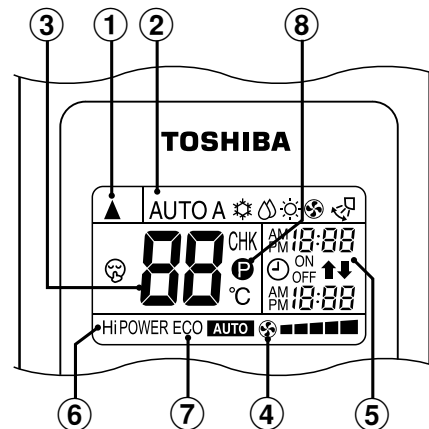
Indicates when the ECO (save energy) operation starts.  
Push the ECO (save energy) button to start and push it again to stop the operation.

### ⑧ Ⓚ (PRESET) display

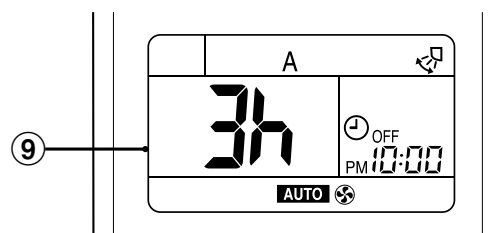
Push another button to turn off the mark.

### ⑨ SLEEP TIMER display

Indicates when the SLEEP TIMER is in operation.  
Each time you push the SLEEP button, the display changes in the sequence of 1, 3, 5 or 9h.



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



## PREPARATION AND CHECK BEFORE USE

### Loading the remote controller batteries.

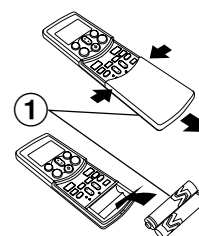
#### ① Remove the cover, and insert the batteries.

#### ② Push the RESET button.

The clock display flashes.  
Adjust the clock.  
Place back the cover.

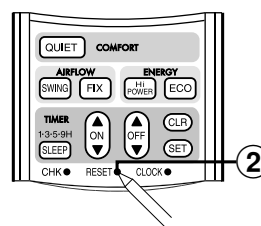
- Slide off the cover while pressing the sides.

- Battery replacement**  
Be careful not to reverse the (+) position and the (-) position.



### Batteries

- To replace the batteries, use two new batteries (AAA type).
- In normal use, the batteries will last about one year.
- Replace the batteries if there is no receiving beep from the indoor unit or when the air conditioner cannot be operated using the remote controller.
- To avoid malfunctions by battery leakage, remove the batteries when not using the remote controller for more than one month.





## Setting the clock

Before you start operating the air conditioner, set the clock of the remote controller using the procedures given in this section. The clock panel on the remote controller will indicate the time regardless of whether the air conditioner is in use or not.

### Initial setting

When batteries are inserted in the remote controller, the clock panel will indicate AM 0:00 and will flash.

#### ① ON/OFF TIMER button

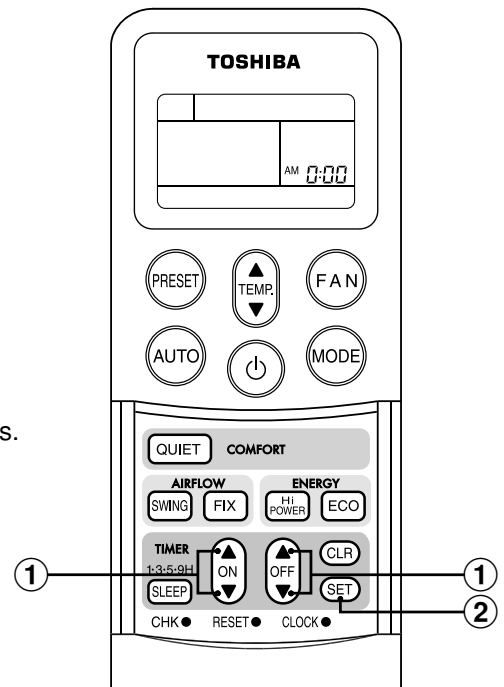
Push  or  button to set the current time.

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

#### ② SET button

Push the SET  button.

The current time is indicated and the clock starts.



### Clock adjusting

#### ① CLOCK button

Push the CLOCK button. The CLOCK display flashes.

#### ② ON/OFF TIMER button

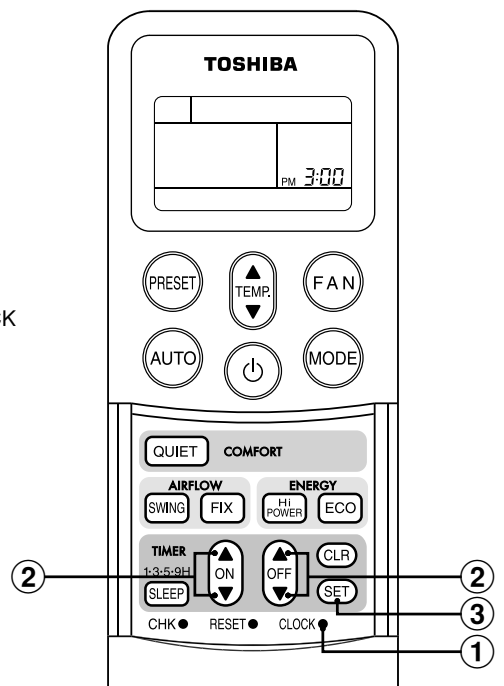
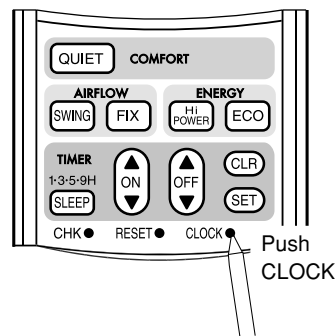
Push  or  button to set the current time.

Each push of the TIMER button changes the time by one minute. Pushing the TIMER button continually changes the time by ten minutes.

#### ③ SET button

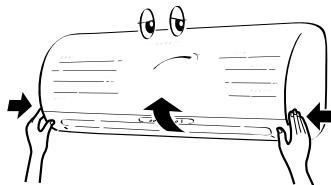
Push the SET  button.

The current time is indicated and the clock starts.

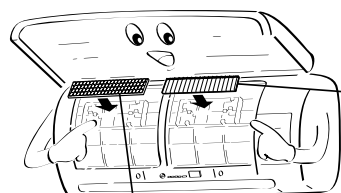


### Preparing the filters

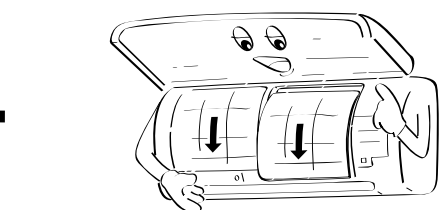
#### ① Open the air inlet grille, and remove the air filters.



#### ② Attach the supplied Sasa-Zeolite plus filter and Bio-enzyme & Gingko filter (two each).



Sasa-Zeolite plus filter



Bio-enzyme & Gingko filter

# LIMITED OPERATION BY TWIN AND GROUP COMBINATION

## NOTES

Twin combination: The combination where 2 indoor units are installed for 1 outdoor unit.

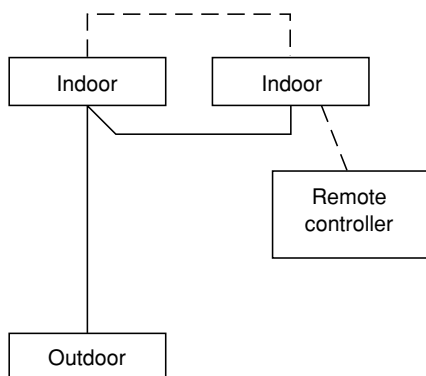
Group combination: Operate air conditioners in more than one system (such as single combination and twin combination) in same time.

Header unit: The representative unit during twin and group operation. Receive commands from remote controller and transmit the commands to follower units.

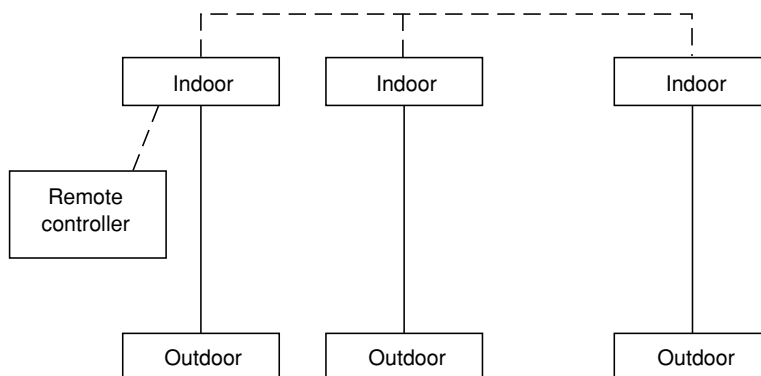
(The header unit is indoor unit that receives START/STOP signal from the wireless remote controller.)

Follower unit: Indoor units other than the header unit are called follower unit.

Example of twin combination



Example of group combination



----- Control line

————— Other connecting line

## CAUTION

When using indoor unit in twin and group combination,

### 1. Hi POWER, ECO and QUIET operation will not function.

When Hi POWER or ECO or QUIET is transmitted from wireless remote controller, the receiving sound will be heard from the indoor unit and display on the remote controller will also change. (☞ see page 22.) However, the indoor unit does not operate Hi POWER or ECO or QUIET. Restore the display on the remote controller pushing Hi POWER or ECO or QUIET button.

### 2. Units other than the header unit cannot be operated with remote controller and the TEMPORARY button.

When operating air conditioner with wireless remote controller, transmission should be sent to the header unit. Header and follower units are decided through address setting upon installation. Follower unit will not receive any signals from remote controller.

Air conditioner will not work even if the TEMPORARY button on the follower unit is pushed.

(Some follower units may receive SWING and FIX, but these operations are performed only on the unit that received the signal.)

(When wireless remote controller is used, only the header unit receives SWING signal. If the SWING signal is transmitted to follower unit, the sound to refuse receiving signal (3 beeps) is heard and the follower unit does not receive the signal.

For FIX operation, both header and follower unit perform the operation by itself.

When wired remote controller is used, air flow direction can be changed on each unit by selecting the indoor unit.)

### 3. ⏰ lamp lights up only on the header unit.

When the timer is set with wired remote controller, even the ⏰ lamp on the header unit will not light up.

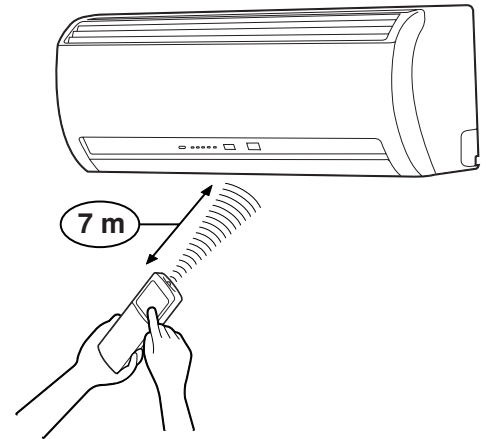
# HANDLING THE REMOTE CONTROLLER

## CAUTION

- The air conditioner will not operate if curtains, doors or other materials block the signals from the remote controller to the indoor unit.
- Prevent any liquid from falling into the remote controller.  
Do not expose the remote controller to direct sunlight or heat.
- If the infrared signal receiver on the indoor unit is exposed to direct sunlight, the air conditioner may not function properly.  
Use curtains to prevent the sunlight from reaching the receiver.
- If the room using the air conditioner has fluorescent lighting with electronic starters, signals may not be properly received. If you are planning to use such fluorescent lamps, consult your local dealer.
- If other electrical appliances react to the remote controller, move these appliances or consult your local dealer.

### Location of the remote controller

- Keep the remote controller where its signals can reach the receiver of the indoor unit (a distance of 7 m is allowed).
- When you select the timer operation, the remote controller automatically transmits a signal to the indoor unit at the specified time.  
If you keep the remote controller in a position that hinders proper signal transmission, a time lag of up to 15 minutes may occur.



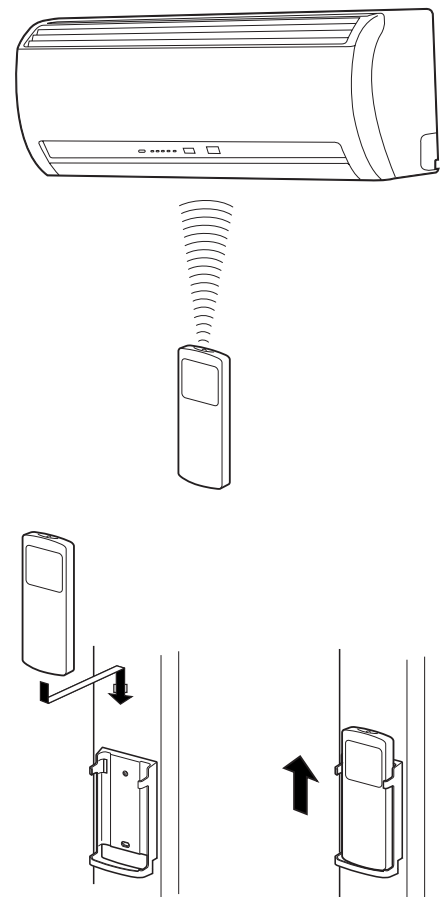
### Remote controller holder

#### Installing the remote controller holder

- Before you actually install the remote controller holder on a wall or pillar, check whether the remote controller signals can be received by the indoor unit.

#### Mounting and removing the remote controller

- To mount the remote controller, hold it parallel to the remote controller holder and push it in fully. To remove the remote controller, slide the remote controller upwards and out from the holder.




# AUTOMATIC OPERATION

When you set the air conditioner in AUTO mode, it will automatically select cooling, heating, or fan only operation depending on the room temperature.  
In addition, fan speed and flap are automatically controlled.

## Start

### ① AUTO button (AUTO)

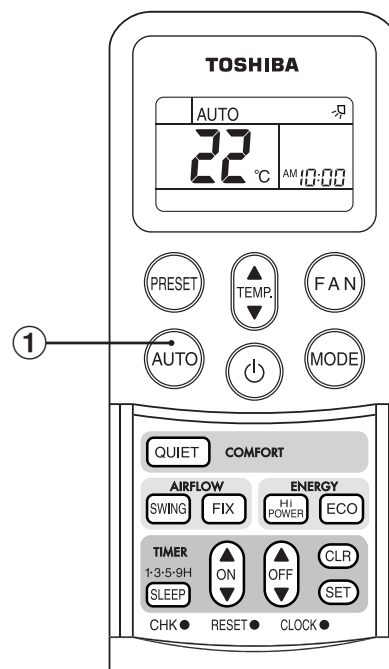
Push AUTO button.

- The  lamp (green) on the display panel of the indoor unit lights. The operating mode is selected in accordance with the room temperature and operation starts after approximately 3 minutes.
- If the AUTO mode is uncomfortable, you can select the desired conditions manually. Temperature, fan speed and flap position can be changed. When fan speed or flap position is changed, MODE is also changed from AUTO to A.  
At the same time, fan speed and flap positioning indications are indicated.

## Stop

### START/STOP button

Push this button to stop the air conditioner.



# AUTOMATIC OPERATION (AUTO CHANGEOVER)

When you set the air conditioner in A mode or switch over from AUTO operation because of some settings change, it will automatically select cooling, heating, or fan only operation depending on the room temperature.

## Start

### ① START/STOP button


Push this button to start the air conditioner.

### ② Mode select button (MODE)

Select A.

### ③ Temperature button (TEMP.)

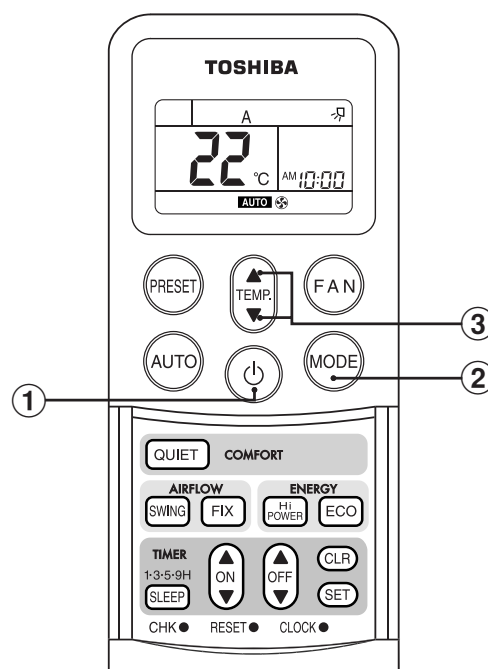
Set the desired temperature.

- The  lamp (green) on the display panel of the indoor unit lights. The operating mode is selected in accordance with the room temperature and operation starts after approximately 3 minutes.
- When you select the A mode, it is unnecessary to set the fan speed. The FAN speed display will show AUTO and the fan speed will be automatically controlled.
- 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.






# COOLING/HEATING/FAN ONLY 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 .



### ③ Temperature button (TEMP.)

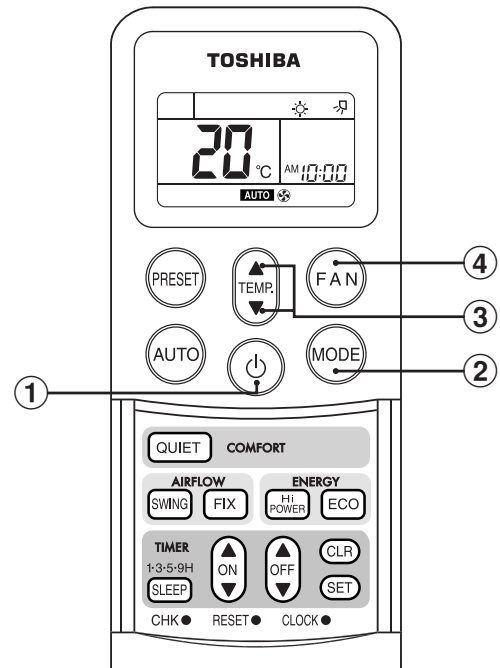
Set the desired temperature.

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

### ④ Fan speed button (FAN)

Select one of "AUTO" LOW , LOW+ , MED , MED+ , HIGH .

- The  lamp (green) on the display panel of the indoor 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. Therefore, perform only steps ①, ② and ④ to select this mode.



## Stop

### START/STOP button

Push this button again to stop the air conditioner.

# DRY OPERATION

## Start

### ① START/STOP button


Push this button to start the air conditioner.

### ② Mode select button (MODE)

Select DRY .

### ③ Temperature button (TEMP.)

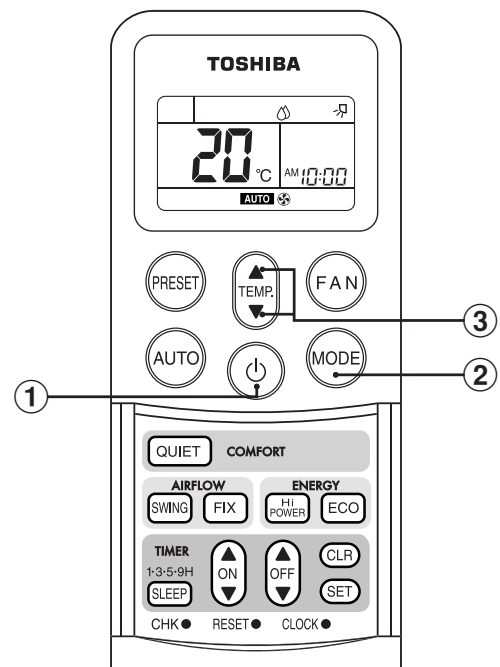
Set the desired temperature.

- The fan speed display indicates AUTO.
- The  lamp (green) on the display panel of the indoor unit lights, and operation starts after approximately 3 minutes.

## Stop

### START/STOP button

Push this button again to stop the air conditioner.



# Hi POWER OPERATION

## High power (Hi POWER)

- The Hi POWER (high power operation) mode automatically controls room temperature, air flow and operation mode so that the room is quickly cooled in summer and warmed in winter. (☞ see page 22.)

## 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.

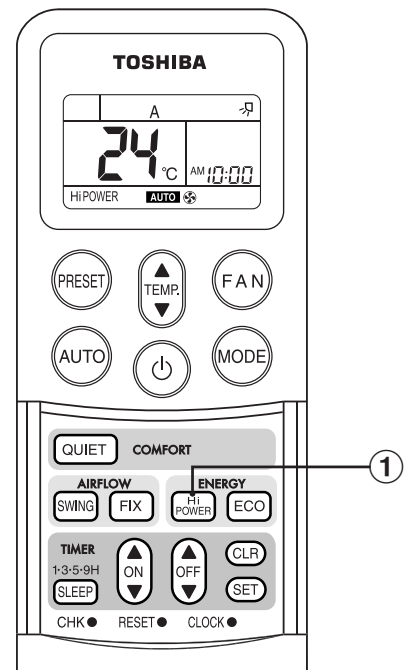
## Canceling Hi POWER mode

### 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.
- Hi POWER mode is not available for twin and group combination. (☞ see page 7.) When Hi POWER is transmitted to the header unit, the receiving sound is heard but the Hi POWER mode will not be performed. Please cancel the Hi POWER mode.



# TIMER OPERATION

## ON timer and OFF timer

### Setting TIMER

#### ① or TIMER button

Push the or 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.

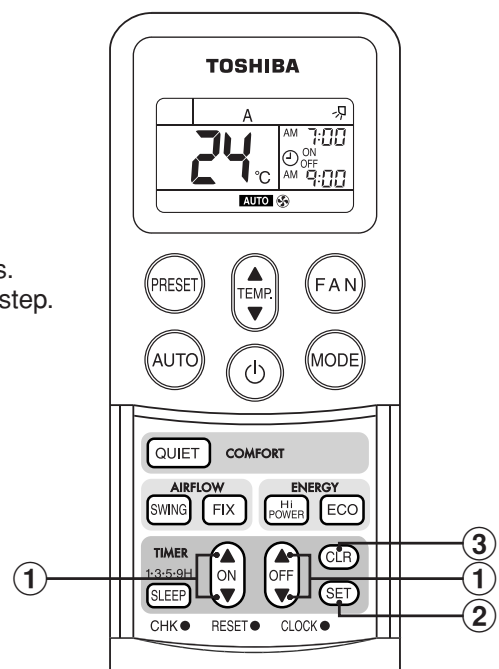
## Canceling TIMER

#### 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.
- 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 or 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” on page 6 to set the clock, and then set the timer.

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

### OFF timer → ON timer




#### (Operation → Stop → Operation)

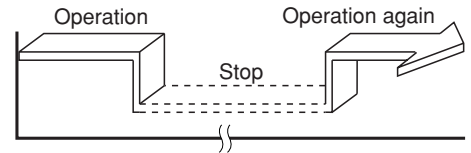
This feature is useful when you want to stop the air conditioner after you go to sleep, and start it again in the morning when you wake up or you return home.

Example:

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

### Setting combined TIMER

- (1) Push the OFF  button to adjust the OFF timer.
- (2) Push the ON  button to adjust the ON timer.
- (3) Push the SET  button.



### ON timer → OFF timer




#### (Stop → Operation → Stop)

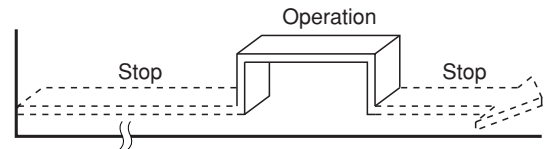
You can use this setting to start the air conditioner when you wake up and stop it when you leave the house.

Example:

To start the air conditioner next morning and stop it.

### Setting combined TIMER

- (1) Push the ON  button to adjust the ON timer.
- (2) Push the OFF  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  button to adjust the ON timer.
- (2) Push the OFF  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.

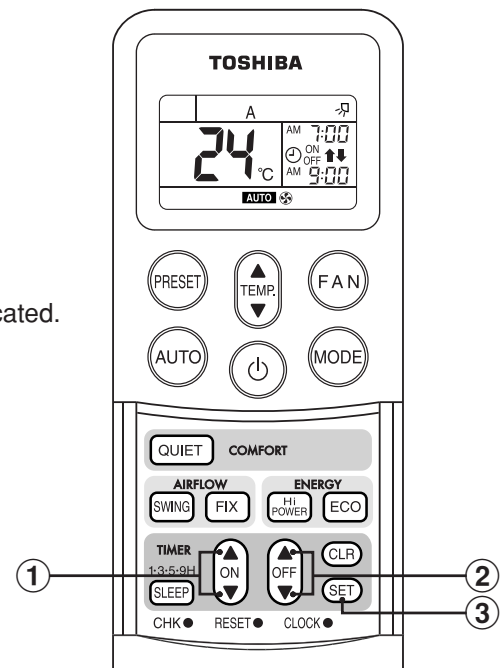
- During the every day timer is activating, both arrows (↑, ↓) are indicated.

### 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.



# PRESET OPERATION

Memorize the frequently used operation setting by the PRESET button for convenience.

Start the air conditioner in the operation mode which you want the remote controller to memorize.

Push the button as follows while the air conditioner is in operation.

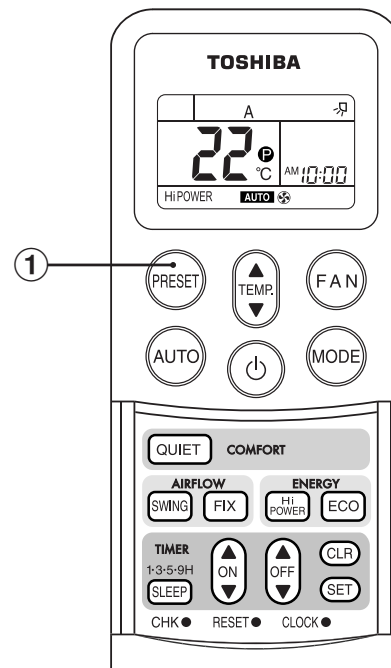
## ① PRESET button

Push and hold this button for more than 3 seconds while the display flashes.

All the icons currently displayed except for the clock display and **P** mark flashes.

The **P** mark is indicated and the setting is memorized.

- If you do not push the PRESET button within 3 seconds or if you push another button, the PRESET setting is cancelled.
- Operation modes which can be memorized with the PRESET button are MODE, Temperature, FAN, TIMER, Hi POWER, ECO and QUIET.



To operate the air conditioner with the setting memorized by the PRESET button.

## ① PRESET button

Push the PRESET button. The setting memorized with the PRESET button will be indicated and the air conditioner operates with regards to the setting.

- The **P** lamp (green) on the display panel of the indoor unit goes on, and operation starts after approximately 3 minutes.
- Initial setting:  
MODE : AUTO  
Temperature : 22

# ADJUSTING AIR FLOW DIRECTION

- Adjust the air flow direction properly. Otherwise, it might cause discomfort and make the room temperature uneven.
- Adjust the vertical air flow using the remote controller.
- Adjust the horizontal air flow manually.

## Adjust the vertical air flow

The air conditioner automatically adjusts the vertical air flow direction in accordance with the operating conditions when AUTO or A mode is selected.

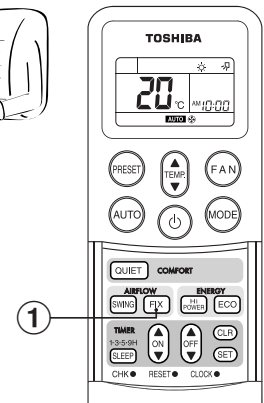
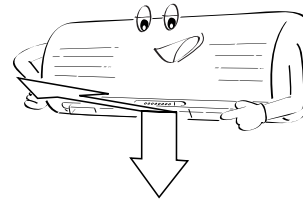
### To set the air flow direction you desire

Perform this function when the air conditioner is in operation.

#### ① FIX button

Keep pushing or pushing briefly the FIX button on the remote controller to move the flap in the desired direction.

- In subsequent operations, the vertical air flow is automatically set in the direction to which you adjusted the flap using the FIX button.



### NOTE

Operating angle of vertical airflow flap will be different during cooling, dry and heating operation.

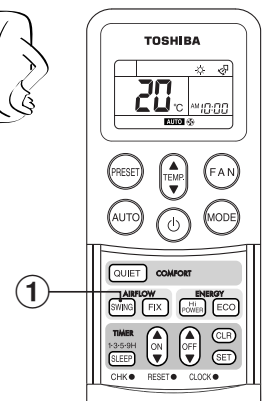
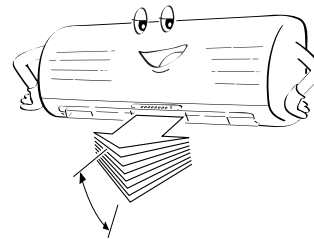
### To automatically swing the air flow direction

Perform this function when the air conditioner is in operation.

#### ① SWING button

Push the SWING button on the remote controller.

- To stop the function, push the SWING button.
- To change the swing direction, push the FIX button.



### CAUTION

- The FIX and SWING buttons will be disabled when the air conditioner is not in operation (including when the ON TIMER is set).
- Do not operate the air conditioner for long hours with the air flow direction set downward during the cooling or dry operation. Otherwise, condensation may occur on the surface of the vertical air flow flap and cause dew dripping.
- Do not move the vertical air flow flap manually. Always use the FIX button.  
If you move the flap manually, it may malfunction during operation. If the flap malfunctions, stop the air conditioner once, and restart.
- When the air conditioner is started immediately after it was stopped, the vertical air flow flap might not move for 10 seconds or so.
- Flap operation is limited when performing twin and group operation. (☞ see page 7.)

## Adjust the horizontal air flow

### Preparation:

- Take hold of the lever on the horizontal air flow flap and move them to adjust the air flow direction as required.
- You can adjust the air flow at the left, center and right locations of the flap.

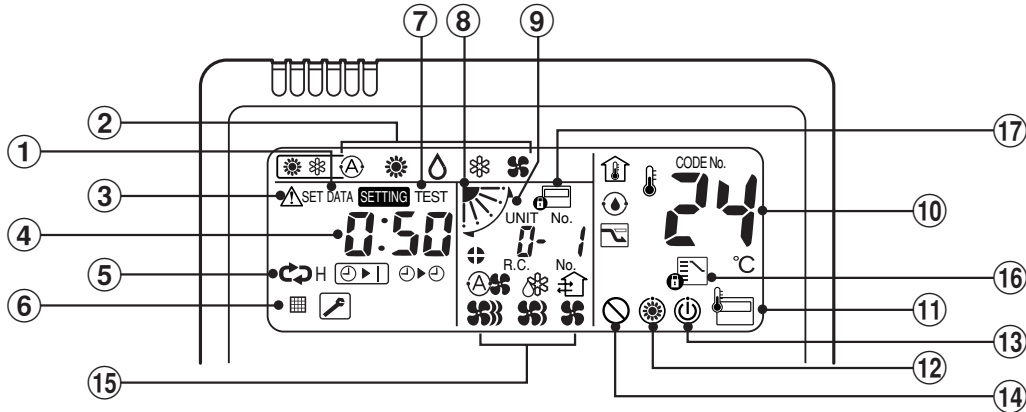
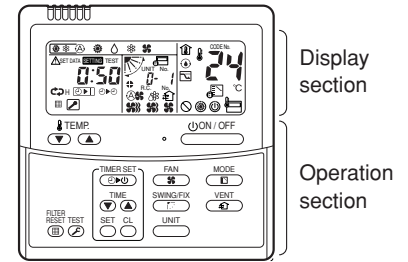


# NAMES AND FUNCTION OF WIRED REMOTE CONTROLLER

## Display section

In the display example, all indicators are displayed for the explanation.  
In reality only, the selected contents are indicated.

- When turning on the leak breaker at the first time, [SET DATA] flashes on the display part of the remote controller. While this display is flashing, the model is being automatically confirmed. Accordingly, wait for a while after [SET DATA] display has disappeared, and then use the remote controller.



### ① SET DATA display

Displayed during setup of the timer.

### ② Operation mode select display

The selected operation mode is displayed.

### ③ CHECK display

Displayed while the protective device works or a trouble occurs.

### ④ Timer time display

Time of the timer is displayed.  
(When a trouble occurs, the check code is displayed.)

### ⑤ Timer SETTING setup display

When pushing the Timer SETTING button, the display of the timer is selected in order of [OFF] [ON] → [OFF] repeat OFF timer → [ON] → No display.

### ⑥ Filter display

If "FILTER" is displayed, clean the air filter.

### ⑦ TEST run display

Displayed during a test run.

### ⑧ Flap position display

Displays flap position.

### ⑨ SWING display

Displayed during up/down movement of the flap.

### ⑩ Set up temperature display

The selected set up temp. is displayed.

### ⑪ Remote controller sensor display

Displayed while the sensor of the remote controller is used.

### ⑫ PRE-HEAT display

Displayed when the heating operation starts or defrost operation is carried out.  
While this indication is displayed, the indoor fan stops or the mode enters in LOW.

### ⑬ Operation ready display

Displayed when cooling or heating operation is impossible because the outdoor temperature goes out of the operable range.

### ⑭ No function display

Displayed if there is no function even if the button is pushed.

### ⑮ Air volume select display

The selected air volume mode is displayed.

(AUTO) (HIGH)  
(MED.) (LOW)

### ⑯ Mode select control display

Displayed when pushing "Operation mode select" button while the operation mode is fixed to heating or cooling by the system manager of the air conditioner.

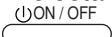
### ⑰ Central control display

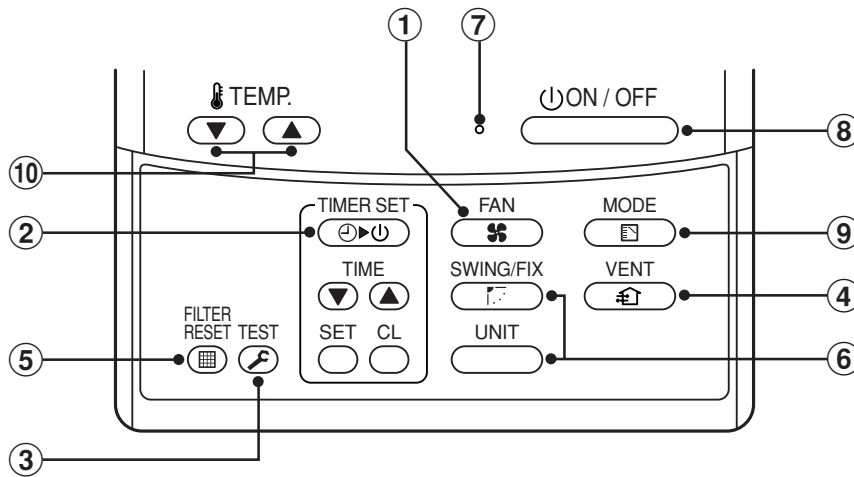
Displayed when using the remote controller together with the central control remote controller, etc.  
If remote controller is prohibited at the central control side, [ON/OFF] flashes when operating [ON/OFF], [MODE], [DOWN] / [UP] buttons and the change is not accepted.  
(The contents available to be set up on the remote controller differ according to the central control mode. For details, refer to Owner's Manual of the central control remote controller.)

## Operation section

Push each button to select a desired operation.

This remote controller can operate the maximum 8 indoor units.

- The details of the operation needs to be set up once, afterward, the air conditioner can be used by pushing  button only.



### ① Air volume select button

Selects the desired air volume mode.  
The Concealed Duct High Static Pressure type models cannot be operated.

### ② Timer set button


TIMER SET button is used when the timer is set up.

### ③ Check button

The CHECK button is used for the check operation. During normal operation, do not use this button.

### ④ Fan button


FAN button is used when a fan which is sold on the market or etc. is connected.


- If  is displayed on the remote controller when pushing the FAN button, a fan is not connected.

### ⑤ Filter reset button

Resets (Erases) "FILTER 

### ⑥ Wind direction and Swing

 : If the multiple indoor units are operated by only one remote controller, select the units when the air direction is adjusted.

 : Set up the auto swing and angle of the flap.

### ⑦ Operation lamp

Lamp is lit during the operation. Lamp is off when stopped.

Although it flashes when operating the protection device or abnormal time.

### ⑧ button

When the button is pushed, the operation starts, and it stops by pushing the button again.



When the operation has stopped, the operation lamp and all the displays disappear.

### ⑨ Operation select button

Selects desired operation mode.

### ⑩ Set up temperature button

Adjusts the room temperature.

Set the desired set temperature by pushing  or .


### Remote controller sensor

Usually the TEMP. sensor of the indoor unit senses the temperature. The temperature on the surrounding of the remote controller can also be sensed.

For details, contact the dealer from which you have purchased the air conditioner.

- In case that one remote controller controls the multiple indoor units, the setup operation is unavailable in group control.

# CORRECT USAGE


When you use the air conditioner for the first time or when you change the SET DATA value, follow the procedure below. From the next time, the operation displayed on the remote controller will start by pushing the  button only.

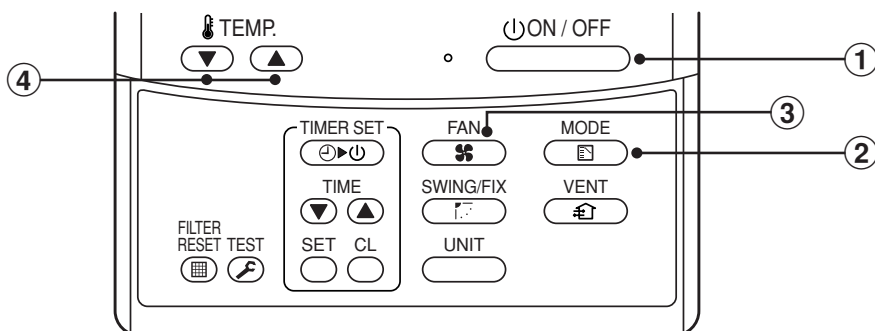
## Preparation

### Turn on the main power switch and/or the leakage breaker.

- When the power supply is turned on, a partition line is displayed on the display part of the remote controller.
- \* After the power supply is turned on, the remote controller does not accept an operation for approx. 1 minute, but it is not a failure.

## REQUIREMENT

- While using the air conditioner, operate it only with  button without turning off the main power switch and the leak breaker.
- Do not turn off the leak breaker while the air conditioner is used.
- Turn on the leak breaker 12 hours or more before start of operation after the air conditioner has stopped for a long time.



### ① Push button.







The operation lamp goes on, and the operation starts.

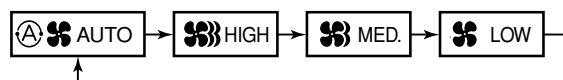
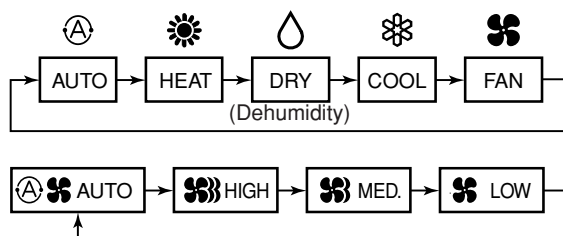
### ② Select an operation mode with the button.

One push of the button, and the display changes in the order shown on the right.

### ③ Select air volume with button.

One push of the button, and the display changes in the order shown on the right.

- When air volume is "AUTO ", air volume differs according to the room temperature.
- In DRY  mode, "AUTO " is displayed and the air volume is LOW.
- In heating operation, if the room temperature is not heated sufficiently with volume "LOW " operation, select "MED. " or "HIGH " operation.
- The temperature which the temperature sensor detects is one near the air inlet of the indoor unit. Therefore it slightly differs from the room temperature according to the installation status. The setup value is a criterion of the room temperature. (Automatic air speed cannot be selected in FAN mode.)



### ④ Determine the set up temperature by pushing the "TEMP. " or "TEMP. " button.

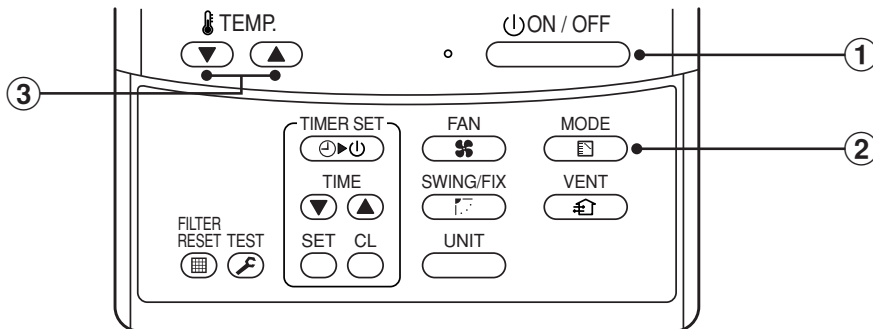
## Stop

### Push button.

The operation lamp goes off, and the operation stops.

# AUTOMATIC OPERATION (AUTO CHANGEOVER)

When you set the air conditioner in (A) mode or switch over from AUTO operation because of some settings change, it will automatically select either cooling, heating, or fan only operation depending on the indoor temperature.



## Start

### ① button




Push this button to start the air conditioner.

### ② **Mode select button (MODE)**

Select AUTO.

### ③ **Temperature button**

Set the desired temperature.

- In case of cooling, start the operation after approx. 1 minute.
- In case of heating, the operation mode is selected in accordance with the room temperature and operation starts after approximately 3 to 5 minutes.
- When you select the Auto mode, it is unnecessary to set the fan speed. The FAN speed display will show "AUTO (A) " and the fan speed will be automatically controlled.
- When the room temperature reaches the set temperature and the outdoor unit stops, the super low wind is discharged and the air volume decreases excessively. During defrost operation, the fan stops so that cool air is not discharged and  is displayed (also  lamp of main unit turned on).
- If the Auto mode is uncomfortable, you can select the desired conditions manually.

## NOTE

### When restarting the operation after stop


- When restarting the operation immediately after stop, the air conditioner does not operate for approx. 3 minutes to protect the machine.

## Stop

### Push button.

Push this button again to stop the air conditioner.

# ADJUSTMENT OF AIR FLOW DIRECTION

- When the air conditioner stops, the flap (adjustment plate of up/down air flow direction) directs downward automatically.
- When the heating operation is in READY states, the flap (adjustment plate of up/down air flow direction) directs upward. The swinging starts after HEAT READY status cleared, SWING  is displayed on the remote controller even if the heating operation is in READY status.  
About adjusting the horizontal air flow. (→ see page 14.)

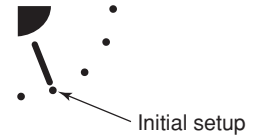
## How to set up the air direction

Push  button.

### ① Every pushing the button, the air direction changes.

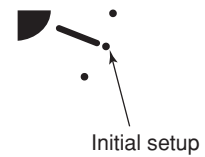
#### In Heating operation

Set the air outlet flap downward.  
If directing it upward, the hot air may not come to the foot.




#### In Cooling / Dry operation


Set the air outlet flap upward.  
If directing it downward, the dew may fall on near the air discharge port or it drips.

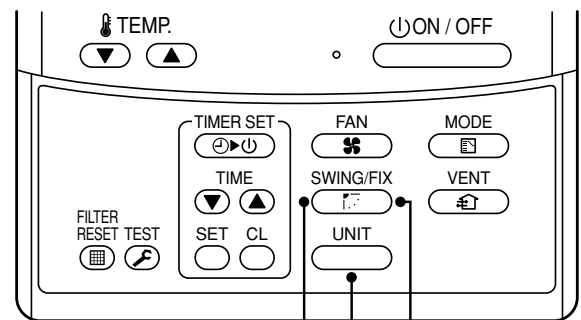


## How to start swinging

### ② Push button.

Set direction of the air outlet flap to the lowest position and then push  button again.


- [SWING ] is displayed and the air direction automatically changes upward/downward.  
In case when one remote controller controls the multiple indoor units, each indoor unit can be selected and its air direction can be set up.



①, ②, ③



## How to stop swinging

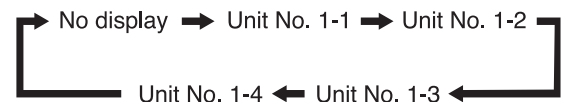
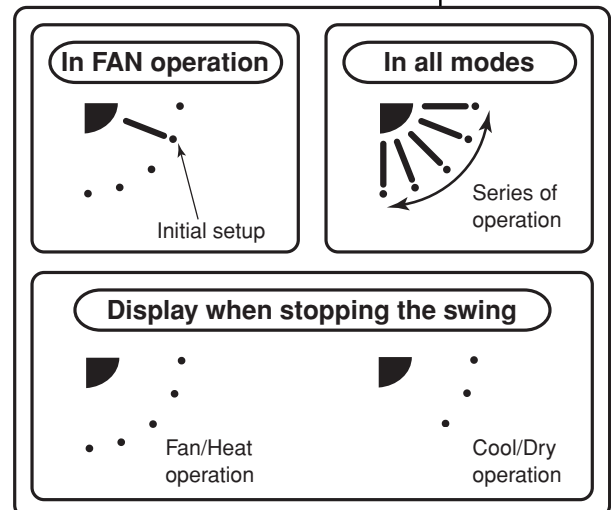
### ③ Push button again during swinging of the air outlet flap.

- The air outlet flap can be stopped at the desired position. After then the air direction can be again set up from the uppermost position by pushing  button.

\* While the air outlet flap is set downward in cooling/drying operation, it does not stop. If stopping the air outlet flap which directs downward during swinging, it stops after moving to the 3rd position from the top position.

### ④ button

- To set up the air direction individually, push  button to display each indoor unit No. in a group control. Then set up the air direction to a displayed indoor unit.
- If there is no display, all the indoor units can be operated collectively.
- Every pushing  button, the display exchanges as shown in the figure.

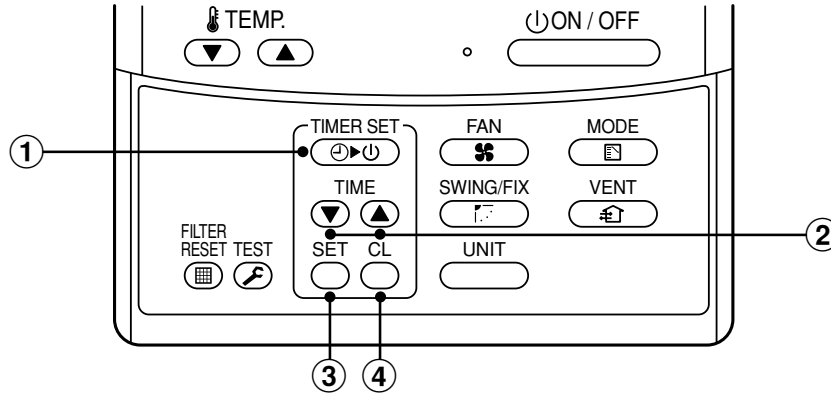


# TIMER OPERATION

A type of timer operation can be selected from the following three types.

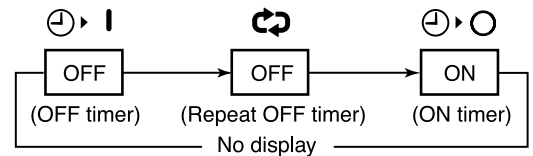
- OFF timer : The operation stops when the time of timer has reached the set time.
- Repeat OFF timer : Every time, the operation stops after the set time has passed.
- ON timer : The operation starts when the time of timer has reached the set time.

## Timer operation



### ① Push TIMER SET button.

- The timer display (type) changes for every push of the button.
- SET DATA and display flashes.



### ② Push to select "SET TIME".

Every pushing button, the setup time increases in the unit of 0.5 hr (30 minutes).

For the setup time above 1d (24 hr), time increases in the unit of 1 hr.

The maximum setup time is 7d (168 hr).

On the remote controller, the setup time is displayed with numerals for 0.5 hr to 23.5 hr (\*1), and time over 24 hr (\*2) is displayed by No. of days and time.

Every pushing button, the setup time is decreased in the unit of 0.5 hr (30 minutes)

(From 0.5 hr to 23.5 hr) or in the unit of 1 hr (From 24 hr to 168 hr).

### Display example of remote controller

- Case of 23.5 hr (\*1)



- Case of 34 hr (\*2)



\*a: Represents a day (24 hr).

\*b: Represents 10 hours

(Total 34 hours).

### ③ Push SET button.

- SET DATA display disappears and display goes on.  
(When ON timer is activated, time is displayed, and after time of the timer has been up, displays other than ON disappear.)

### Cancel of timer operation

#### ④ Push CL button.

- TIMER display disappears.

## NOTICE

- When the operation stops after the timer reached the preset time, the Repeat OFF timer resumes the operation by pushing button and stops the operation after the time of the timer has reached the set time.

# AUTO RESTART OPERATION

This air conditioner is equipped with an Automatic restarting facility which allows the air conditioner to resume the set operating conditions in the event of a supply power shutdown without the use of the remote controller. The operation will resume without warning three minutes after the power is restored.

## INFORMATION


The AUTO RESTART OPERATION is not set to work on shipment from the factory, and so it is necessary to set it to function as required.

### HOW TO SET THE AUTO RESTART

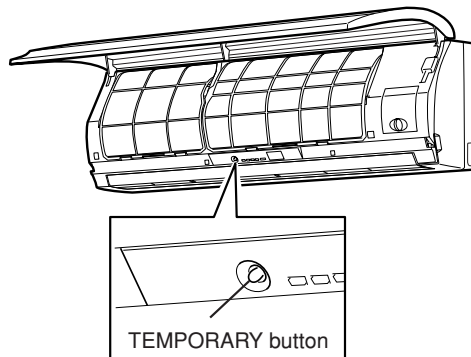
To set the auto restart function, proceed as follows:

The power supply to the unit must be on the function will not set if the power is off.

To enable the auto restart function, push the TEMPORARY button continually for more than 3 seconds, less than 10 seconds.

The air conditioner will acknowledge the setting and beep 2 times (first long, second short sound) and  lamp is flashing 5 seconds (5 Hz). The system will now restart automatically.

The above auto restart settings can be carried out:



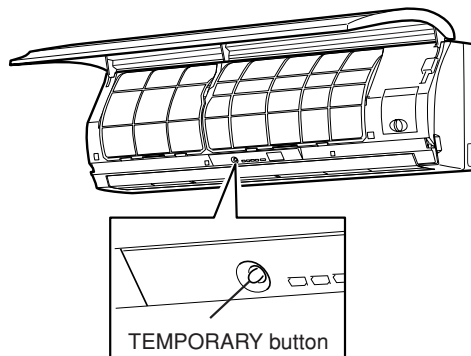
### HOW TO CANCEL THE AUTO RESTART

To cancel the auto restart operation, proceed as follows:

Repeat the setting procedure: the air conditioner will acknowledge the instruction and beep 2 times (first long, second short sound).

The air conditioner will now require to be manually restarted with the remote controller after the main supply is turned off.

Cancellation is carried out:



# HOW THE AIR CONDITIONER WORKS

## Automatic Operation

- The air conditioner selects and operates in one of the operating modes of cooling, heating or fan only, depending on the room temperature and setting temperature.
- If the AUTO mode is uncomfortable, you can select the desired conditions manually.

## Hi POWER operation

When you push the Hi POWER button during cooling, heating or AUTO operation, the air conditioner will start the following operation.

- Cooling operation  
Performs the cooling operation at 1°C lower than the setting temperature.  
Only when the fan speed before the Hi POWER operation is not high, the fan speed will be increased.
- Heating operation  
Performs the heating operation at 2°C higher than the setting temperature.  
Only when the fan speed before the Hi POWER operation is not high, the fan speed will be increased.

## ECO operation

When you push the ECO button during cooling, heating, or AUTO operation, the air conditioner will start the following operation.

To automatically control room temperature, fan speed and operation mode to save energy. (expect in DRY, FAN ONLY and ON TIMER mode)

- Under certain conditions, ECO mode may not provide adequate heating or cooling due to energy saving features.

## QUIET operation

When you push the QUIET button during cooling, heating, or AUTO operation, the air conditioner will start the following operation.

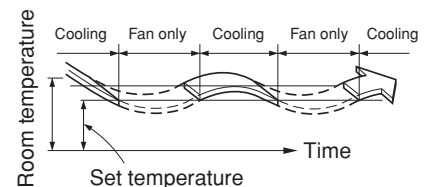
To operate super low fan speed for quiet operation (expect in DRY mode)

## DRY operation

This operation is performed when the room temperature is higher than the set temperature.

The temperature is regulated while dehumidifying by repeated turning on and off of the cooling operation or fan only operation.

Increase of using wireless remote controller, the fan speed display will indicate AUTO and low speed will be used.



## HINTS FOR ECONOMICAL OPERATION

### Maintain room temperature at comfortable level

#### Clean air filters

The clogged air filters impairs the performance of the air conditioner. Clean them once two weeks.

#### Never open doors and windows more often than necessary

To keep cool or warm air in the room, never open doors and windows more often than necessary.

#### Window curtains

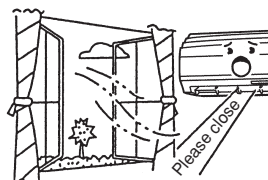
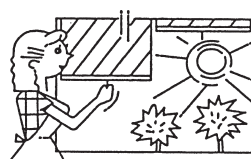
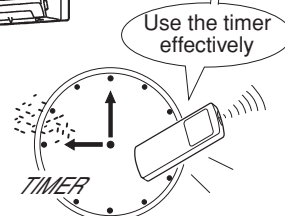
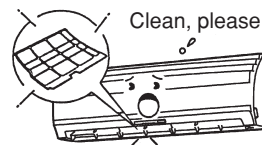
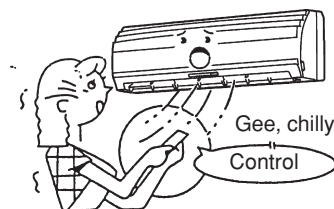
In cooling, close the curtains to avoid direct sunlight. In heating, close the curtains to keep the heat in.

#### Use the timer effectively

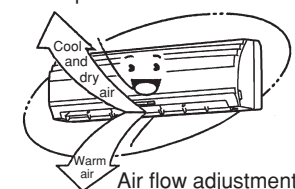
Set the timer for the desired operating time.

#### Get uniform circulation of room air

Adjust air flow direction for even circulation of room air.



Blows upward



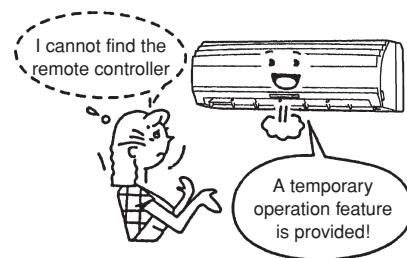
Blows downward

## TEMPORARY OPERATION

### TEMPORARY operation

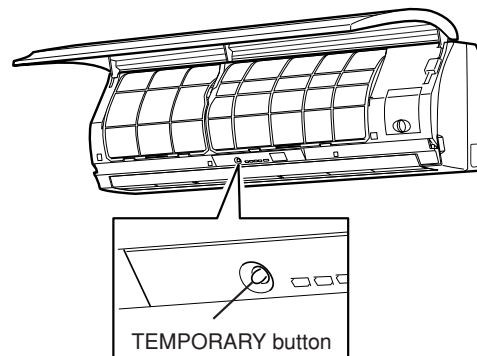
This function is used to operate the unit temporarily in case you misplace the remote controller or its batteries are exhausted.

- Push the TEMPORARY button once (less than 3 seconds) to start the air conditioner.
- The last operation conducted with the wireless remote controller will be performed. (If wireless remote controller was not used, the A operation will be performed (setting temperature: 24°C, fan speed: HIGH).)



### CAUTION

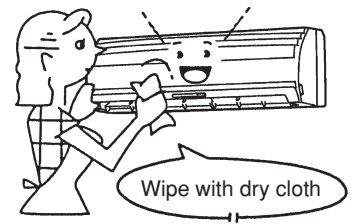
Continuous pushing of the TEMPORARY button for 10 seconds and above will start the forced cooling operation. (This will impose burden on the air conditioner. Do not perform this for the purposes other than trial run.) In this time all indicators of indoor unit go on.



# MAINTENANCE

## WARNING

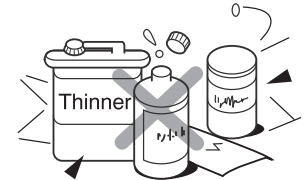
Before you clean the air conditioner, be sure to turn off the circuit breaker or main power switch.



## Cleaning of indoor unit and remote controller

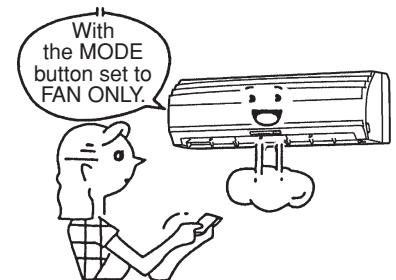
## CAUTION

- Use a dry cloth to wipe the indoor unit and 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 wiping or leave such materials on the unit for long. It may damage or fade the surface of the unit.
- Do not use benzine, thinner, polishing powder, or similar solvents for cleaning. These may cause the plastic surface to crack or deform.



## If you will not use the unit for at least 1 month

- (1) Operate the air conditioner in FAN ONLY mode for about half a day to dry the inside of the unit.
- (2) Stop the air conditioner and turn off the circuit breaker.
- (3) Remove the batteries from the remote controller.



## FAN ONLY operation

## Check before operation

## CAUTION

- Check that the air filters are installed.
- Check that the air outlet or inlet of the outdoor unit is not blocked.

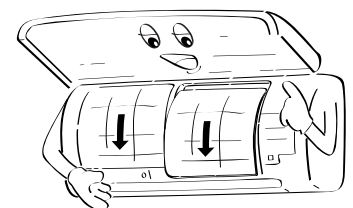
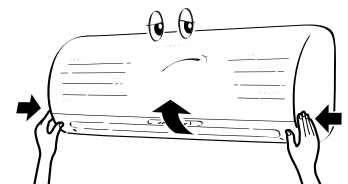
## Cleaning the air filter

Clean the air filters every 2 weeks.

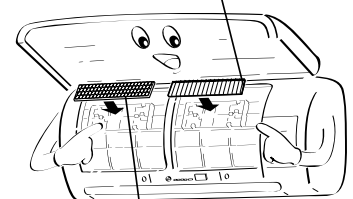
If the air filters are covered with dust, the performance of the air conditioner will deteriorate.

Clean the air filters as often as possible.

- 1** Open the air inlet grille.  
Lift the air inlet grille up to the horizontal position.
- 2** Take hold of the left and right handles of the air filter and lift it up slightly, then pull it downward to take it out from the filter holder.
- 3** Remove the Sasa-Zeolite plus filters and Bio-enzyme & Gingko filters at the back of the air filter.
- 4** Use a vacuum cleaner to remove the dust from the filters or wash them with water.  
If you wash the air filters, dry them in the shade.



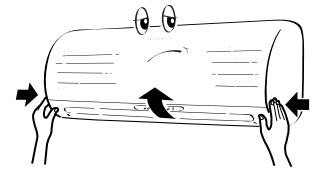
Bio-enzyme & Gingko filter



Sasa-Zeolite plus filter



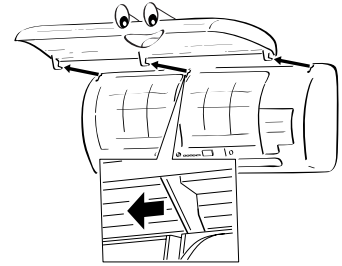
- 5** Insert the upper portion of air filter confirming to fit its right and left edges on the indoor unit until it is firmly set.



- 6** Close the air inlet grille.

### Cleaning the air inlet grille

- (1) Open and remove the air inlet grille.
- (2) Wash it with a sponge or a towel and dry it.
- (3) Reinstall and close it.



## INFORMATION

### Sasa-Zeolite plus filter

Maintaining your strong deodorizing and anti-virus filter.  
Clean every 6 months or when dust covers the filter.

1. Gently clean the surface of the filter with a vacuum cleaner.
2. If the filter remains unclean, rinse it briefly and gently in cool water.
3. Dry under the sunlight at least 6 hours to recharge Zeolite's deodorizing properties.
4. Replace every 2 years. (P/N: RB-A610DE)

### Bio-enzyme & Ginkgo filter



Maintaining your strong purifying and anti-allergy filter.  
Clean every 6 months or when dust covers the filter.

1. Gently clean the surface of the filter with a vacuum cleaner.  
(Do not use water to clean the filter.)
2. Replace every 2 years. (P/N: RB-A606SE)

Note: Filter life depends on the level of impurities in your operating environment. Higher levels of impurities may require more frequent cleaning and replacement. In all cases, Toshiba recommends an additional set of filters to improve the purifying and deodorizing performance of your air conditioner.

# AIR CONDITIONER OPERATIONS AND PERFORMANCE

## Address setting

When the power is turned on for the first time after installation,  lamp lights up for approximately 5 minutes for setting of addresses of systems and units. When the power is turned on the next time,  lamp lights up for approximately 1 minute.

While the above lamp is on, all the commands from the remote controller cannot be received. However, this is not a malfunction or failure.

## Three-minute protection feature


A protection feature prevents the air conditioner from being activated for approximately 3 minutes when it is restarted immediately after operation or when the power supply switch is set to on. This will protect the machine.

## Heating characteristics

### Preheating operation

The air conditioner will not deliver warm air immediately after it is started.

Warm air flows out after approximately 5 minutes when the indoor heat exchanger warms up.

(The  lamp is on during this intervals indicating the preheating operation.)

### Warm air control

When the room temperature reaches the set temperature, the fan indoor speed is automatically reduced to prevent a cold draft.

## Defrosting

If the outdoor unit is frosted during heating operation, defrosting is started automatically (for approximately 5 to 10 minutes) to maintain the heating effect, and the  lamp is on. (In this time the flap operated automatically.)

- The fans in both the indoor and outdoor units stop during the defrost operation.
- During defrost operation, defrosted water is drained from the bottom plate of the outdoor unit.

## Heating capacity


In the heating operation, heat is absorbed from outdoors and released into the room. That is called the heat pump system. When the outdoor temperature is too low, to use another heating apparatus in combination with the air conditioner is recommended.

## Consideration for accumulated snow

Select the position for the outdoor unit where it will not be subjected to snow drifts, accumulation of leaves or other seasonal debris. It is important that the air flow of the outdoor unit is not impeded as this will result in reduced heating or cooling performance. During the heating mode, and at sub-zero temperatures, the water drained off the outdoor unit as a result of the automatic defrost may accumulate and freeze. It is important that adequate drainage or a soak-way is provided.

## Power failure

In case of Auto restart is not setting, power failure during operation will stop the unit completely.

- The  lamp goes on approximately 1 minute when power is restored.
- To restart operation, push the START/STOP button on the remote controller.

## Air conditioner operating conditions

For proper performance, operate the air conditioner under the following temperature conditions:

Cooling operation	Outdoor temperature : $-5^{\circ}\text{C}$ to $43^{\circ}\text{C}$ (RAV-SM***AT-E) : $-15^{\circ}\text{C}$ to $43^{\circ}\text{C}$ (RAV-SP***AT-E)
	Room temperature : $21^{\circ}\text{C}$ to $32^{\circ}\text{C}$ (Dry valve temp.) : $15^{\circ}\text{C}$ to $24^{\circ}\text{C}$ (Wet valve temp.)
<b>CAUTION</b> Room relative humidity – less than 80%. If the air conditioner operates in excess of this figure, the surface of the air conditioner may cause dewing.	
Heating operation	Outdoor temperature : $-15^{\circ}\text{C}$ to $15^{\circ}\text{C}$ (Wet valve temp.)
	Room temperature : $15^{\circ}\text{C}$ to $28^{\circ}\text{C}$ (Dry valve temp.)

If the air conditioner is used in conditions other than above, safety protection features may come into operation.

# TROUBLES AND CAUSES

## CAUTION

If any of the following conditions occur, stop the air conditioner immediately, set to off the main power switch and contact the dealer:

- Switch operation are erratic.
- The main power fuse often blows out, or the circuit breaker is often activated.
- Foreign matter or water has fallen inside the air conditioner.
- Any other unusual condition is observed.
- Abnormal display appears on the remote controller display while using wired remote controller.

Before you ask for servicing or repairs, check the following points.

### Inoperative

- The power main switch is turned off.
- The circuit breaker is activated to cut off the power supply.
- The main power fuse has blown out.
- Stoppage of electric current.
- The batteries in the remote controller are exhausted.
- ON timer is set.
- Signal is sent to the sub unit with the remote controller. (☞ see page 7.)
- Address is being set. (☞ see page 3.)
- Operation of the indoor unit is limited by the remote controller that is controlling some other system.  
(When signal is transmitted, warning sound (5 beeps) will be heard.)



### Poor cooling or heating performance

- The air inlet or outlet of the outdoor unit is blocked.
- Doors or windows are opened.
- The air filter is clogged with dust.
- The flap is not at the correct position.
- The fan speed is set to low.
- The air conditioner is set in the QUIET, ECO or DRY mode.
- The set temperature is too high. (In cooling operation)
- The set temperature is too low. (In heating operation)



Recheck

Before you ask for servicing or repairs, check the following points.

**The back of indoor unit is dewed.**

- Dewdrops on the back of the indoor unit are automatically collected and drained out.

**Indoor unit or outdoor unit makes a strange noise.**

- When temperature sharply changes, the indoor or outdoor unit occasionally makes a strange noise because of expansion/contraction of parts or change of refrigerant flow.

**The room air is smelly.**

**A bad odor comes from the air conditioner.**

- Smells impregnated in the wall, carpet, furniture, clothing, or furs, are coming out.

**Outdoor unit is frosted in heating operation.**

**Water is drained out of outdoor unit.**

- The outdoor unit is sometimes frosted in heating operation. In that case, the unit automatically performs defrosting (for 2 to 10 minutes) for raising the heating efficiency.
- In defrosting operation, both the indoor and outdoor units stop air flow.
- Hiss sound is heard when flow of the refrigerant is changed for defrosting.
- Resultant water of automatic defrosting in heating operation is drained out of the outdoor unit.

**Air flow changes though the FAN button is not set to the AUTO mode.**

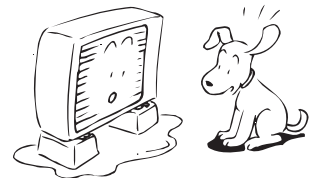
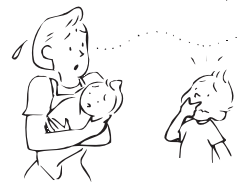
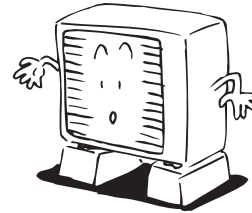
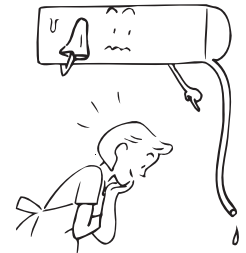
- When the temperature of blown air goes down in heating operation, the air conditioner automatically changes or stops air flow from the indoor unit not to make persons in the room feel chilly.

**A white mist of chilled air or water is generated from the outdoor unit.**

- The indoor unit in cooling operation or the outdoor unit in defrosting operation occasionally steams.

**Automatic operation of vertical air flow flap.**

- When the room temperature or outdoor temperature is high in the heating operation, the vertical air flow flap once close and then set themselves automatically to the original set position again.



These are not failures.