

# TOSHIBA

R32 or R410A

*AIR CONDITIONER (MULTI TYPE)*

## Owner's Manual

For commercial use

### Indoor Unit

Model name:

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<Fresh Air Intake Indoor Unit>

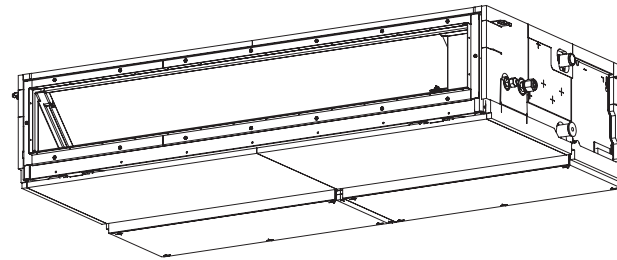
**MMD-UP0481HFP-E**

**MMD-UP0721HFP-E1**

**MMD-UP0961HFP-E1**

**MMD-UP1121HFP-E1**

**MMD-UP1281HFP-E1**



#### Original instruction

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.

#### ADOPTION OF R32 or R410A REFRIGERANT

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

#### According to IEC 60335-1

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.

#### According to EN 60335-1

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 which complies with the Machinery Directive (Directive 2006/42/EC), and ensure that you understand them.

After completing the installation work, hand over this Installation Manual as well as the Owner's Manual provided with the outdoor unit to the user, and ask the user to keep them in a safe place for future reference.

#### 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.

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 (*1)	<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 (*1)	<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>

#### Definition of protective gear



When the air conditioner is to be transported, installed, maintained, repaired or removed, wear protective gloves and 'safety' work clothing.

In addition to such normal protective gear, wear the protective gear described below when undertaking the special work detailed in the table below.

Failure to wear the proper protective gear is dangerous because you will be more susceptible to injury, burns, electric shocks and other injuries.

Work undertaken	Protective gear worn
All types of work	Protective gloves 'Safety' working clothing
Electrical-related work	Gloves to provide protection for electricians Insulating shoes Clothing to provide protection from electric shock
Work done at heights (50 cm or more)	Helmets for use in industry
Transportation of heavy objects	Shoes with additional protective toe cap
Repair of outdoor unit	Gloves to provide protection for electricians

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 longterm 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. 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
	<b>WARNING</b>	<b>WARNING</b>  <b>ELECTRICAL SHOCK HAZARD</b> Disconnect all remote electric power supplies before servicing.
	<b>ELECTRICAL SHOCK HAZARD</b> Disconnect all remote electric power supplies before servicing.	
	<b>WARNING</b>	<b>WARNING</b>  <b>Moving parts.</b> Do not operate unit with grille removed. Stop the unit before the servicing.
	Moving parts. Do not operate unit with grille removed. Stop the unit before the servicing.	
	<b>CAUTION</b>	<b>CAUTION</b>  High temperature parts. You might get burned when removing this panel.
	High temperature parts. You might get burned when removing this panel.	
	<b>CAUTION</b>	<b>CAUTION</b>  Do not touch the aluminum fins of the unit. Doing so may result in injury.
	Do not touch the aluminum fins of the unit. Doing so may result in injury.	
	<b>CAUTION</b>	<b>CAUTION</b>  <b>BURST HAZARD</b> Open the service valves before the operation, otherwise there might be the burst.
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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 neighbor, install the air conditioner while considering the noise.)
- This appliance is intended to be used by expert or trained users in shops, in light industry, or for commercial use by lay persons.

#### Transportation and storage

- When transporting the air conditioner, wear shoes with protective toe caps, protective gloves, and other protective clothing.
- When transporting the air conditioner, do not take hold of the bands around the packing carton. You may injure yourself if the bands should break.
- When 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.

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- You shall ensure that the air conditioner is transported in stable condition. If you find any part of the product broken, contact your dealer.

### 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 error has occurred in the air conditioner, set the circuit breaker to the OFF position, and contact a service person.
- If you install the unit 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 exposure to a combustible gas. If a combustible gas leaks and becomes concentrated around the unit, a fire may occur.
- Be sure to use the company-specified products for the separately purchased parts. Use of non-specified products may result in fire, electric shock, water leakage, etc. Have the installation performed by a professional.
- Confirm that earthing is performed correctly.

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### 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 the intake grille of the indoor unit or 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.
- 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, be careful of ventilation to let fresh air enter 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 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.
- Never 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.
- Be sure to 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.

### Repairs

- When you have noticed that some kind of trouble (such as when a check code 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 trouble status may cause mechanical problems to escalate or result in electric shocks, etc.

- If you have discovered that 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 you have discovered that 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, etc.

### 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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(\*1) Refer to the “Definition of Qualified Installer or Qualified Service Person.”

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## CAUTION

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### Installation

- Certainly lay the drain hose for perfect draining. Bad 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.
- 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, etc.
- 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.

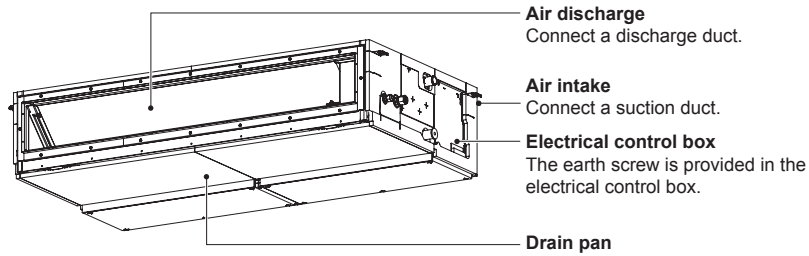
- Be sure to stop running the air conditioner and turn off the breaker before cleaning. Otherwise, injury may result as the fan is rotating at high speed inside the unit.
  - Ask for cleaning of the air conditioner to be performed by the dealer. Cleaning the air conditioner in an improper manner may cause damage to plastic parts, insulation failure of electric parts, etc. and result in a malfunction. In the worst case, it may result in water leakage, electric shock, smoke emission and 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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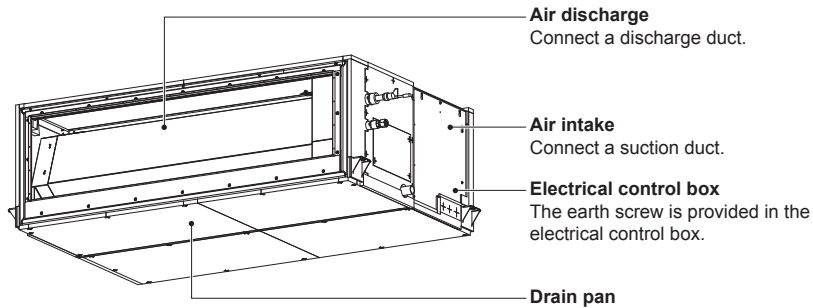
## 2 Part names

### ■ Fresh air intake unit Indoor Unit

MMD-UP048\*HFP\*



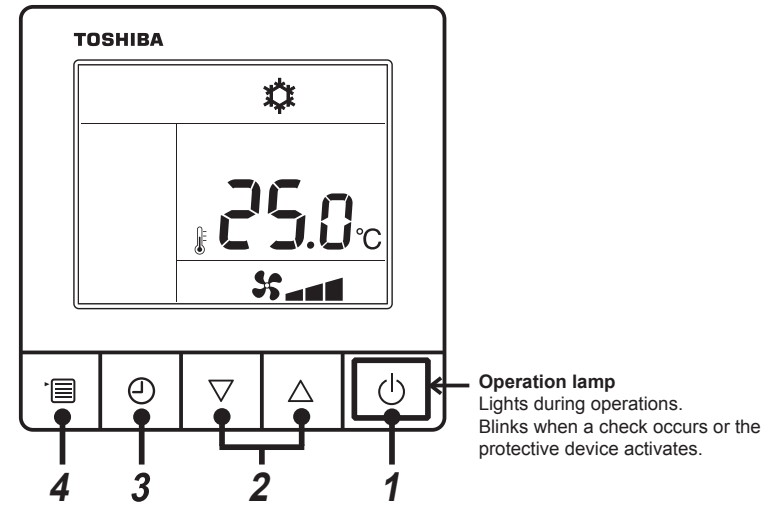
MMD-UP072\*HFP\* to UP128\*HFP\*



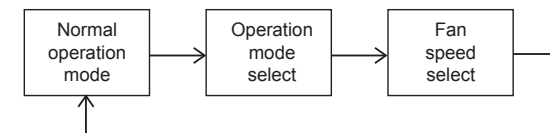
## 3 Part names and functions of the remote controller

LCD backlight lights for 15 seconds during remote controller operation.  
All indicators are displayed in the display example below.  
Actually, only the selected options will be displayed.

### ■ Operations



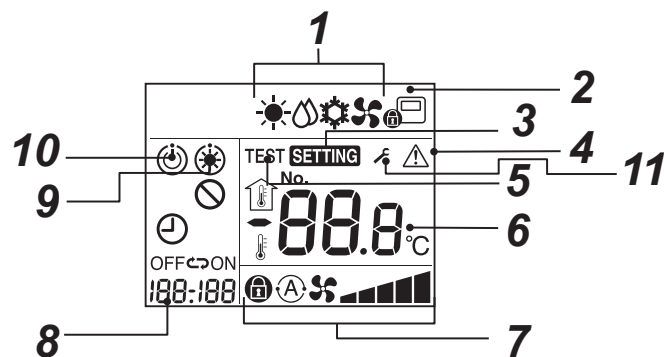
- 1 ON/OFF button**  
Turns on the unit when pushed, and turns off when pushed again.
- 2 Setting button**  
Sets setting temperature at the normal mode.  
Changes each setting at the Operation mode, the Fan speed mode or the Wind direction mode.
- 3 OFF timer button**  
Setting the OFF timer.
- 4 Menu button**  
Selects the Operation mode select, the Fan speed select or the Wind direction select.  
Each time you push the button, indicator is displayed as followings.





## ■ Indicators

All icons on the display are shown for this explanation. Operations are not accepted when "SETTING" is flashing.




### 1 Operation mode indicator

Indicates the operation mode selected.

### 2 Central control indicator

Displayed when the air conditioner is controlled centrally and used with central control devices such as the central remote controller.

If the use of the remote controller is prohibited by the central control,  blinks when the ON/OFF, MODE, or TEMP. button on the remote controller is pushed, and the buttons do not function.

(Settings that can be configured on the remote controller differ depending on the mode of the central control. For details, read the Owner's Manual of the central remote controller.)

### 3 Setting indicator

Indicates that the model is being checked automatically after a breaker is thrown or some other occurrence.

### 4 Service indicator

Displayed while the protective device works or a check occurs.

### 5 Test run indicator

Displayed during test run.

### 6 Temperature setting indicator

The selected set temperature is displayed.

### 7 Fan speed indicator

Indicates the selected fan speed

Auto  
Low  
Low +  
Med.  
Med. +  
High  
Fix

### 8 OFF timer indicator

When a trouble occurs, trouble code is displayed.

### 9 Pre-heat indicator

Displayed when the heating mode is energized or defrost cycle is initiated.

While this indication is displayed, the indoor fan stops or operate in fan mode.

### 10 Operation standby indicator

Indicates that the Super Modular Multi System cannot cool if a different indoor unit is heating or cannot heat if one is cooling; and that the Super Heat Recovery Multi cannot heat or cool because the outside temperature is outside the operating range.

### 11 Notice display

Displayed while notice code occurs.

## 4 Operation

When you use the air conditioner for the first time or change the settings, follow the procedures below. From next time, pushing the ON/OFF button starts running of the air conditioner with the chosen settings.

### ■ Standby

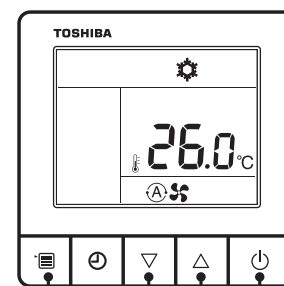
Operations are not accepted when "SETTING" is blinking.

#### REQUIREMENT

- Keep the power switch turned on during use.
- When you resume using the air conditioner after a long period of disuse, turn on the power switch at least 12 hours before starting running.
- When the power is turned on, it takes about 1 minute before the remote controller becomes operable. This is not a malfunction.

### ■ Running operation

Some operation modes are not available depending on the type of indoor unit.



Menu button    Setting button    ON/OFF button

### 1 ON/OFF button

Push this button to light the operation lamp and start operations.

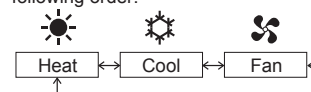
#### When heating

- The heated air comes out after a 3 to 5 minutes of pre-heating with the indoor fan kept turned off.

### 2 Select the operation mode

Push the Menu button several times to select the operation mode.

- The current operation mode flashes. Each time you push the setting button, the operation mode and its icon change in the following order:



(Cooling only mode will not display: "Auto" and "Heat")

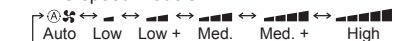
- If you do not push any button for 30s, the operation mode finishes.

### 3 Select the fan speed

Push the Menu button several times to select the fan speed mode.

- The current fan speed indicator flashes. Each time you push the setting button, the fan speed mode and its indication change in the following order:

- Five-speed models:



- When cooling and heating operation, "AUTO" has the same fan speed as "High".
- FIX "Auto" is displayed for models capable of the fan speed setting.
- If you do not push any button for 30s, the fan speed mode finishes.

### 4 Select the temperature

Push the setting button to adjust the temperature.

- The temperature can be set in steps of 1.0°C.

Super Modular Multi System u series (SMMS-u)

Operating Mode	Temperature setting range	Factory default
Cool	13 to 25°C	18°C
Heat	18 to 30°C	25°C

Other than Super Modular Multi System u series (SMMS-u)

Operating Mode	Temperature setting range	Factory default
Cool	16 to 27°C	18°C
Heat		25°C

## ■ Operation mode and function

**COOL** : Cools the fresh air and sends it into the room  
**HEAT** : Heats the fresh air and sends it into the room  
**FAN** : Sends the fresh air as it is

The fresh air intake unit controls temperature of the supply air so that it is close to the setup temperature of the remote controller.

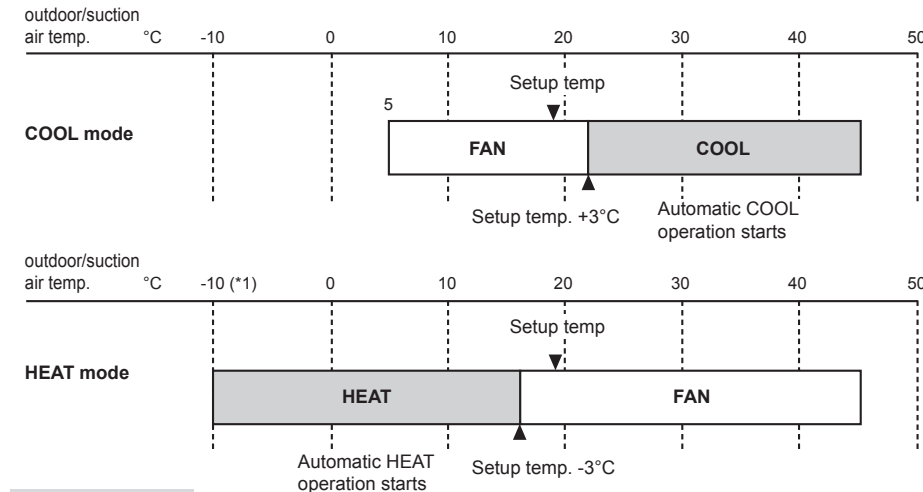
However temperature of the supply air may not be close to the setup temperature according to temperature of the outdoor/suction air of the operation condition of the indoor units for air conditioning in one line.

### REQUIREMENT

- The air conditioner with the fresh air intake unit cannot control the room temperature.
- For control of the room temperature, an indoor unit for air conditioning is required separately.

## ■ Use conditions

- In COOL mode, if temperature of the outdoor/suction air is under the setup temp. +3°C, FAN status is automatically made.  
 When temperature of the outdoor/suction air is under 19°C, FAN status is also made regardless of the setup temperature.
- In HEAT mode, if temperature of the outdoor/suction air is over the setup temp. -3°C, FAN status is automatically made.  
 When temperature of the outdoor/suction air is over 15°C, FAN status is also made regardless of the setup temperature.



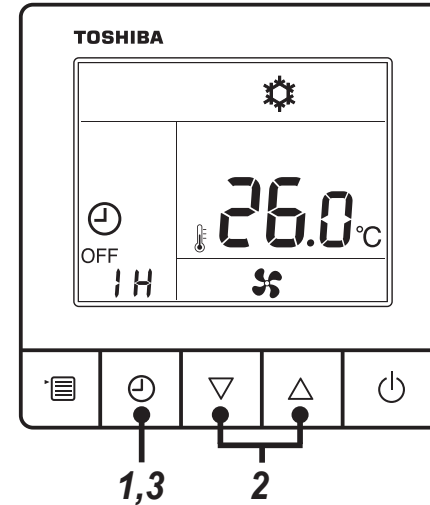
### REQUIREMENT

- In "COOL" or "FAN" mode, if temperature of the outdoor/suction air is under 5°C, the operation stops automatically in order to protect the equipment.  
 In this case, continue the operation by selecting "HEAT" mode.
- In "HEAT" mode, if temperature of the outdoor/suction air is under -10°C (\*1) the operation stops automatically in order to protect the equipment.  
 When operating the fresh air intake unit with the outdoor/suction temperature under -10°C (\*1), make sure to control over -10°C (\*1) using a duct heater (locally procured).  
 For details, consult the dealer which you purchased the air conditioner.

\*1 : In the case of combining with SMMS-u outdoor unit, the temperature capable of operating is -10°C or more.  
 In the case of combining with outdoor unit other than SMMS-u, the temperature capable of operating is to -5°C or more.

## 5 OFF timer operation

OFF timer : The indoor unit stops when the set time is reached.



### 1 OFF timer button

Push the OFF timer button during air conditioning operation.

- "⌚" and "OFF" light and "SETTING" and timer indicator flash.

### 2 Select the OFF timer time

Push the setting button to set the time.

- The OFF timer time can be set to 0.5h (30 min), 1h, 2h, ... up to 24h.
- If you do not push any button for 30s, the OFF timer setting will be cancelled.

### 3 Push the OFF timer button

"SETTING" disappears, the timer indicator changes from flashing to lighting, and the OFF timer starts.

- The timer indicator on the OFF timer operation is displayed with countdown.

## ■ Cancelling the timer

### 1 Push the OFF timer button.

The timer indicator disappears.

### NOTE

- Even if air conditioning is turned on or off with the ON/OFF button during OFF timer operation, the OFF timer operation continues.

## 6 Installation

### ■ Location

- Avoid locations where inside the ceiling is used as a route for fresh air.
- Install the fresh air intake unit considering a discharge port position. The fresh air intake unit has a different discharge temperature compared with the indoor unit for air conditioner.
- Avoid installing near machines emitting high frequency waves.
- Not suitable for chemical plants such as liquefied carbon dioxide refrigerant plants.
- Do not install the air conditioner in locations where iron or other metal dust is present. If iron or other metal dust adheres to or collects on the interior of the air conditioner, it may spontaneously combust and start a fire.
- A failure may occur in certain locations such as the following:
  - Areas with large amount of oil droplets (including machine oil) or vapors
  - Salty areas near oceans, etc.
  - Hot springs emitting sulfidizing gas, etc.
  - Heavily acidic or alkaline places.Special maintenance or parts are required for use in the above places. For details, contact the dealer where you purchased the product.
- Leave an enough space around the air intake and discharge of the outdoor unit so that the ventilation is not restricted.
- Avoid places where strong wind may blow against the air intake and discharge of the outdoor unit.
- Attach a snow stand, snow hood, etc. to the outdoor unit for use in snowfall areas. For details, contact the dealer where you purchased the product.
- Make sure drain water from the outdoor unit is emitted into places with good drainage.
- Make sure the long life prefilter and high-efficiency filter are installed in the filter chamber. If the long life prefilter and high-efficiency filter are not attached, heat exchangers etc. clogged with dust can result in water leakage. Attach the long life prefilter and high-efficiency filter because dust can also get into the area being air conditioned.
- Keep a distance of at least 1 m between the air conditioner / remote controller and a TV or radio. Failure to observe this precaution may cause visual disturbance or noise.
- Leave a distance of at least 1.5 m between the air discharge and a fire alarm. If this precaution is not observed, the alarm may not work properly or detect fire in case of fire.

### ■ Be careful of operation sounds

- Locate the unit in a place secure enough so that the sounds and vibrations do not increase.
- If something is placed near the air discharge of the outdoor unit, noise may increase.
- Be careful not to disturb your neighbors with cool / warm air or noise coming from the air discharge of the outdoor unit.

## 7 Notes on operations and performance

### ■ Check before operation

- Turn on the power switch at least 12 hours before starting operation.
- Make sure the earth wire is securely connected.
- Make sure the air filter is attached to the indoor unit.

### ■ Defrosting during heating

- If frost falls on the outdoor unit during heating, defrosting is automatically performed (for approximately 2 - 10 minutes) to increase the heating effect.
- The fan of the indoor unit is stopped during defrosting.

### ■ 3-minute protection


The outdoor unit will not operate for approximately 3 minutes after the air conditioner has been immediately restarted after stopping, or the power switch has been turned on. This is to protect the system

### ■ Power failure

- In the case of a power failure, all operations stop.
- To resume operations, push the ON/OFF button.

### ■ Protective device (High pressure switch)

The high pressure switch stops the air conditioner automatically when excessive load is applied to the air conditioner.

If the protective device activates, the unit's running stops and the operation lamp blinks. When the protective device activates, the  indicator and the check code are displayed on the remote controller.

The protective device may activate in the following cases:

#### During cooling

- When the air intake or air discharge of the outdoor unit is blocked.
- When strong wind blows continuously against the air discharge of the outdoor unit.

#### During heating (for heat-pump model only)


- When dust or dirt is excessively adhered to the air filter of the indoor unit.
- When the air discharge of the indoor unit is blocked.


#### NOTE

When the protective device activates, turn off the power switch, remove the cause, and then restart running.

### ■ Cooling / Heating operations

Each unit can be controlled individually. However, indoor units connected to the same outdoor unit cannot perform cooling and heating simultaneously.

When you attempt simultaneous operation, indoor units performing cooling are stopped, and the running preparation indicator  is displayed on the remote controller.

An indoor unit performing heating continues running. When you attempt an operation without the configured settings, the running preparation indicator  is displayed on the remote controller and operation stops. If operation is fixed to cooling or heating by the air conditioner administrator, only the configured settings apply to the operation.

### ■ Characteristics of heating

When the outside temperature increases, the outdoor unit may stop.

## 8 Maintenance

### WARNING

For daily maintenance including Air Filter cleaning, make sure to ask the qualified service person particularly following models as the maintenance requires high-place work;

### CAUTION

Do not push buttons with wet hands.  
Doing so may result in electric shock.

### Cleaning the air filters

- Ask qualified service person to clean the filters for the models listed in the warning on the top of this chapter.
- Clogged filters may lower the cooling and heating performance.

#### ▼ Long life prefilter

Remove dust with a vacuum cleaner or rinse it off with water.

- If excessively dirty, it can be cleaned effectively by washing it with a soft brush and neutral detergent.
- After washing with water, drain off the water and dry it in the shade.

#### REQUIREMENT

- Do not wash with water that is over 50°C.  
This may cause discoloration or deformation.
- Do not expose to fire. Doing so could cause a fire.

#### ▼ High-efficiency filter

Replace it when it is time for replacement.

When cleaning the long life prefilter, check the dust collecting status and the reduction in air volume for the high-efficiency filter, then replace the prefilter when it is time for replacement (approximately 2500 hours of operation is recommended).

Note that the high-efficiency filter cannot be washed with water and reused.

However, the lifetime of the high-efficiency filter may be shortened depending on the intake air condition.

### ■ Cleaning the indoor unit and remote controller

- Ask qualified service person to clean the indoor units for the models listed in the warning on the top of this chapter.
- Wipe with a dry, soft cloth.
- Do not use benzine, thinner, scouring powder, chemical cloth, etc. as those may cause deformation or breakage.



### ■ If unused for over a month

- Leave the fan on for half a day or so to dry the inside.
- Turn off the main power switch.
- Clean the air filter and then attach it.

### ■ Periodic inspection

- After being used for a long period of time, the parts may deteriorate or malfunction, or the drainage may worsen, due to heat, moisture, dust, or general usage.
- In addition to the maintenance, it is recommended that you have a inspection (charges apply) performed by the dealer where you purchased the unit, etc.

### ■ Before the cooling / heating season

Ask a qualified service person to clean the drain pan.

### CAUTION

Clean the drain pan

Without cleaning, the drain pan may be filled with waste, and water may overflow onto the ceiling or floor.

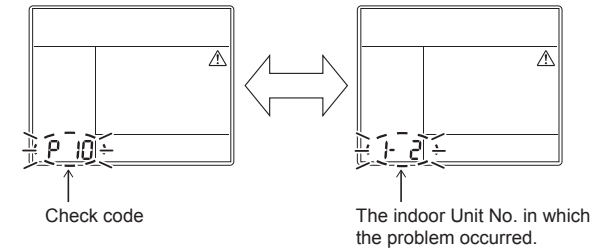
# 9 Troubleshooting

When the following symptoms are found, check the points described below before asking repair servicing.

Symptom		Cause
It is not a failure.	Outdoor unit	<ul style="list-style-type: none"> <li>White misty cold air or water is out.</li> <li>Sometimes, noise of air leak is heard.</li> </ul>
	Indoor unit	<ul style="list-style-type: none"> <li>Fan of the outdoor unit stops automatically and performs defrost operation.</li> <li>Solenoid valve works when defrost operation starts or finishes.</li> </ul>
		<ul style="list-style-type: none"> <li>When the operation has started, during the operation, or immediately after the operation has stopped, a sound such as water flows may be heard, and the operation sound may become larger for 2 or 3 minutes immediately after the operation has started. They are flowing sound of refrigerant or draining sound of dehumidifier.</li> </ul>
		<ul style="list-style-type: none"> <li>Slight clacking sound is heard.</li> <li>"⏻" indication is lit.</li> </ul>
Check again.	Indoor unit	<ul style="list-style-type: none"> <li>"⏻" indication is lit.</li> <li>"⏻" indication is lit.</li> <li>Sound or cool air is output from the stand by indoor unit.</li> </ul>
		<ul style="list-style-type: none"> <li>When power of the air conditioner is turned on, "Ticktock" sound is heard.</li> <li>LCD blurs when it is touched.</li> </ul>
		<ul style="list-style-type: none"> <li>Stops automatically.</li> </ul>
	Does not operate.	<ul style="list-style-type: none"> <li>Is the timer "OFF"?</li> <li>Is it a power failure?</li> <li>Is the power switch turned off?</li> <li>Is the power fuse or breaker blown?</li> <li>Has the protective device operated? (The operation lamp goes on.)</li> <li>Is the timer "ON"? (The operation lamp goes on.)</li> <li>Are COOL and HEAT selected simultaneously?</li> <li>("⏻" indication is lit on the display of the remote controller.)</li> <li>Is the outdoor/suction air temperature outside of operating temperature range? The operation is automatically stopped ("⏻" on the remote controller display turns on).</li> </ul>
	If only fan operation is performed	<ul style="list-style-type: none"> <li>Is the outdoor/suction air temperature outside of operating temperature range for cooling and heating? The operation is automatically switched to the fan mode.</li> </ul>

## Confirmation and check

If a problem occurs with the air conditioner, the OFF timer indicator alternately shows the check code and the indoor Unit No. in which the problem occurred.



## Troubleshooting history and confirmation

You can check the troubleshooting history with the following procedure if a problem occurs with the air conditioner. (The troubleshooting history records up to 4 incidents.)

You can check it during operation or when operation is stopped.

If you check the troubleshooting history during OFF timer operation, the OFF timer will be canceled.

Procedure	Description of operation	
1	Push the OFF timer button for over 10 seconds and the indicators appear as an image indicating the troubleshooting history mode has been entered. If [Service check] is displayed, the mode enters in the troubleshooting history mode. <ul style="list-style-type: none"> <li>[01: Order of troubleshooting history] appears in the temperature indicator.</li> <li>The OFF timer indicator alternately shows the [check code] and the [indoor Unit No. ] in which the problem occurred.</li> </ul>	
2	Each time the setting button is pushed, the recorded troubleshooting history is displayed in sequence. The troubleshooting history appears in order from [01] (newest) to [04] (oldest). <div> <b>CAUTION</b> </div> In the troubleshooting history mode, DO NOT push the Menu button for over 10 seconds, doing so deletes the entire troubleshooting history of the indoor unit.	
3	After you have finished checking, push the ON/OFF button to return to the regular mode. <ul style="list-style-type: none"> <li>If the air conditioner is operating, it remains operated even after the ON/OFF button has been pushed. To stop its operation, push the ON/OFF button again.</li> </ul>	

# 10 Specifications

Model	Sound pressure level (dBA)		Weight (kg)
	Cooling	Heating	
MMD-UP0481HFP-E	36	36	44
MMD-UP0721HFP-E1	38	38	99
MMD-UP0961HFP-E1	40	40	99
MMD-UP1121HFP-E1	42	42	99
MMD-UP1281HFP-E1	44	44	99

**Product information of ecodesign requirements. (Regulation (EU) 2016/2281)**  
<http://ecodesign.toshiba-airconditioning.eu/en>

## Declaration of Conformity

Manufacturer: Toshiba Carrier (Thailand) Co., Ltd.  
144/9 Moo 5, Bangkadi Industrial Park, Tivanon road, Tambol Bangkadi,  
Amphur Muang, Pathumthani 12000, Thailand

TCF holder: TOSHIBA CARRIER EUROPE S.A.S  
Route de Thil 01120 Montluel FRANCE

Hereby declares that the machinery described below:

Generic Denomination: Air Conditioner

Model/type: MMD-UP0481HFP-E, MMD-UP0721HFP-E1,  
MMD-UP0961HFP-E1, MMD-UP1121HFP-E1,  
MMD-UP1281HFP-E1

Commercial name: Super Modular Multi System Air Conditioner  
Super Heat Recovery Multi System Air Conditioner  
Mini-Super Modular Multi System Air Conditioner (MiNi-SMMS series)

Complies with the provisions of the Machinery Directive (Directive 2006/42/EC) and the regulations transposing into national law

### NOTE

This declaration becomes invalid if technical or operational modifications are introduced without the manufacturer's consent.

## Declaration of Conformity

Manufacturer: Toshiba Carrier (Thailand) Co., Ltd.  
144/9 Moo 5, Bangkadi Industrial Park, Tivanon road, Tambol Bangkadi,  
Amphur Muang, Pathumthani 12000, Thailand

TCF holder: TOSHIBA CARRIER UK LTD.  
Porsham Close Belliver Industrial Estate Roborough Plymouth Devon  
PL6 7DB United Kingdom

Hereby declares that the machinery described below:

Generic Denomination: Air Conditioner

Model/type: MMD-UP0481HFP-E, MMD-UP0721HFP-E1,  
MMD-UP0961HFP-E1, MMD-UP1121HFP-E1,  
MMD-UP1281HFP-E1

Commercial name: Super Modular Multi System Air Conditioner  
Super Heat Recovery Multi System Air Conditioner  
Mini-Super Modular Multi System Air Conditioner (MiNi-SMMS series)

Complies with the provisions of the Supply of Machinery (Safety) Regulations 2008

### NOTE

This declaration becomes invalid if technical or operational modifications are introduced without the manufacturer's consent.



# **Toshiba Carrier (Thailand) Co., Ltd.**

144 / 9 Moo 5, Bangkadi Industrial Park, Tivanon Road, Tambol Bangkadi, Amphur Muang, Pathumthani 12000, Thailand