

# Owner's manual

## MUND CLIMA<sup>®</sup>

### CASSETTE INVERTER

### MUCSR - HF Series

Thank you very much for purchasing our air conditioner, please read this owner's manual carefully before using your air conditioner.

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## 1. IMPORTANT SAFETY INFORMATION

### CAUTION

Do not attempt to install this unit by yourself. This unit requires installation by qualified persons.

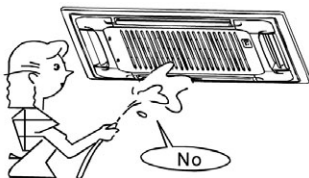
### DANGER

Do not attempt to service the unit yourself. This unit has no user serviceable components. Opening or removing the cover will expose you to dangerous voltage. Turning off the power supply will not prevent potential electric shock.



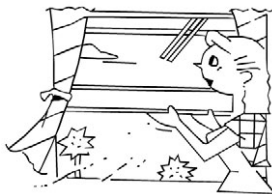
### DANGER

Never put hands or objects into the Air Outlet of indoor or outdoor units. These units are installed with a fan running at high speed. To touch the moving fan will cause serious injury.



### DANGER

To avoid the risk of serious electrical shock, never sprinkle or spill water or liquids on unit.



### WARNING

Ventilate the room regularly while the air conditioner is in use, especially if there is also a gas appliance in use in this room, failure to follow these directions may result in a loss of oxygen in



the room.

### WARNING

To prevent electric shock, turn off the power or disconnect the power supply plug before beginning any cleaning or other routine



maintenance. Follow the directions for cleaning in the Owner's Manual.

### WARNING

Do not use liquid cleaners or aerosol cleaners, use a soft and dry cloth for cleaning the unit. To avoid electric shock, never attempt to clean the



units by sprinkling water.

### CAUTION

Do not use caustic household drain cleaners in the unit. Drain cleaners can quickly destroy the unit components (drain pan and heat exchanger coil etc).

### NOTE

For proper performance, operate the unit in temperature and humidity ranges indicated in this owner's manual. If the unit is operated beyond

## 2.HINTS FOR ECONOMICAL OPERATION

The following should be noticed to ensure an economical operation. (Refer to corresponding chapter for details)

- Adjust the air flow direction properly to avoid winding toward your body.
- Adjust the room temperature properly to get a comfortable situation and to avoid supercooling and superheat.
- In cooling, close the curtains to avoid direct sunlight.
- To keep cool or warm air in the room, never open doors or windows more often than necessary.
- Set the timer for the desired operating time.
- Never put obstructions near the air outlet or the air inlet. Or it will cause lower efficiency, even a sudden stop.
- If you don't plan to use the unit for a long time, please disconnect power and remove the batteries from the remote controller. When the power switch is connected, some energy will be consumed, even if the air conditioner isn't in operation. So please disconnect the power to save energy. And please switch the power on 12 hours before you restart the unit to ensure a smooth operation.
- A clogged air filter will reduce cooling or heating efficiency, please clean it once two weeks.

## 3.AIR CONDITIONER OPERATIONS AND PERFORMANCE

### Three-minute protection feature

A protection feature prevents the air conditioner from being activated for approximately 3 minutes when it restarts immediately after operation.

### Power failure

Power failure during operation will stop the unit completely.

The OPERATION lamp on the indoor unit will start flashing when power is restored.

To restart operation, push the ON/OFF button on the remote controller.

Lightning or a car wireless telephone operating nearby may cause the unit to malfunction.

Disconnect the unit with the power and then connect the unit with the power again. Push the ON/OFF button on the remote controller to restart operation.

### AIR CONDITIONER OPERATING CONDITIONS

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

#### COOLING OPERATION:

Outdoor temperature: 21 to 43°C

Room temperature: 17 to 32°C

#### CAUTION

Room relative humidity less than 80%. If the air conditioner operates in excess of this figure, the surface of the air conditioner may attract condensation.

#### HEATING OPERATION:

Outdoor temperature: -5 to 24°C

Room temperature: 0 to 30°C

#### DRY OPERATION:

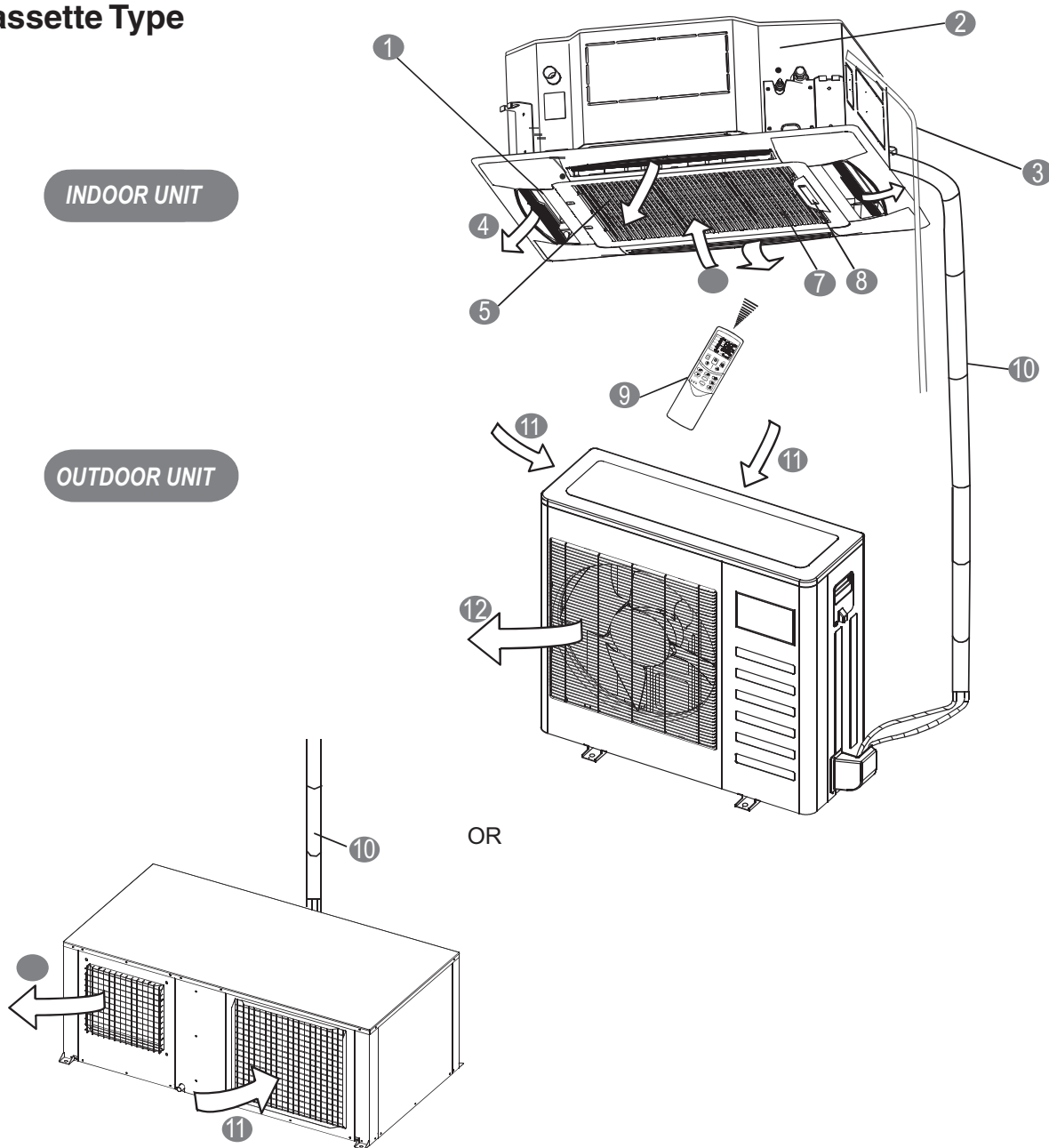
Outdoor temperature: 11 to 43°C

Room temperature: 17 to 30°C

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

## 4.PARTS NAMES

### 4.1.Cassette Type



- ① Air flow louver(at air outlet)
- ② Drain pump(drain water from indoor unit)
- ③ Drain pipe
- ④ Air outlet
- ⑤ Air filter(inside air-in grill)
- ⑥ Air inlet

- ⑦ Air-in grill
- ⑧ Display panel
- ⑨ Remote controller
- ⑩ Refrigerant pipe
- ⑪ Air inlet
- ⑫ Air outlet



#### NOTE

All the pictures in this manual are for explanation purpose only. They may be slightly different from the air conditioner you purchased(depend on model).The actual shape shall prevail.

## 5. INSTALLATION

### LOCATION

- During cooling operation, the air conditioner will dry the room air, so please fix a pipe to drain all the water away from the air conditioner.
- Please let the indoor unit more than one metre away from the TV set and the radio in order to avoid the picture and noise interference.
- Powerful radio transmitters or any other devices radiating high frequency radio waves can cause the air conditioner to malfunction. Please consult the dealer where you purchased the air conditioner before installing it.
- Don't fix the unit in the dangerous region with combustible gas or volatile matter.
- If the air conditioner operates in an atmosphere containing oils (machine oil), salt (near a coastal area), sulfide gas (near a hot spring), etc., such substances may lead to failure of the air conditioner.

### Be careful of noise or vibrations

- Please fix the unit in the stable place to avoid the noise or vibrations.
- The noise near the air outlet of the outdoor unit may enter the air exit.
- Locate the outdoor unit where noise emitted by it or hot air from its air outlet will cause no nuisance to your neighbours.
- If the air conditioner sounds abnormal during operation, contact the dealer where you purchased the air conditioner.

### WIRE

- To avoid the electric shock, please link the air conditioner with the ground. The plug in the air conditioner has joined the ground wiring, please don't change it freely.
  - The power socket is used as the air conditioner specially.
  - Don't pull the power wiring hard. When linking the air conditioner with the ground, observe the local rules.
  - If necessary, use the power fuse or the circuit, breaker or the corresponding scale ampere.
- If you want to change the power wiring, please contact the centre service of the local MD electric appliance.

### RELOCATION

If you move out or if it is desired to relocate the air conditioner, consult your dealer, because special skills to withdraw Freon, purge air and perform other operations are required.

## 6. MAINTENANCE

### WARNING

Before you clean the air conditioner, be sure to disconnect the power supply plug.

### CLEANING THE 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 material on the unit for long, because it may damage or fade the surface of the unit.
- Do not use benzene, thinner, polishing powder, or similar solvents for cleaning. These may cause the plastic surface to crack or deform.

If you do not plan to use the unit for at least 1 month.

- (1) Operate the fan for about half a day to dry the inside of the unit.
- (2) Stop the air conditioner and disconnect power.
- (3) Remove the batteries from the remote controller.

## 7.CHECKS BEFORE OPERATION

### CAUTION

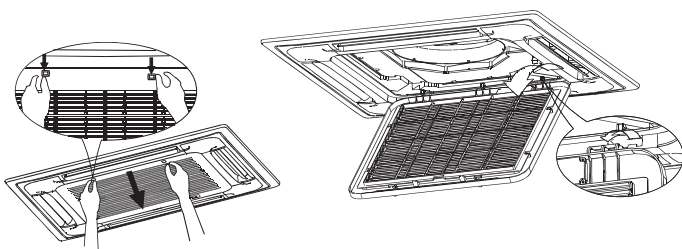
- Check that the wiring is not broken off or disconnected.
- Check that the air filter is installed. (Some air-conditioners haven't air filters.)
- Check that the outdoor unit air outlet or inlet is not blocked.

Before you clean the air conditioner, be sure to disconnect the power supply plug.

### CLEANING THE AIR FILTER

The air filter can prevent the dust or other particulate from going inside. In case of blockage of the filter, the working efficiency of the air conditioner may greatly decrease. Therefore, the filter must be cleaned once two weeks during long time usage. If the air conditioner is positioned in a dust place, the cleaning frequency of the air filter must be increased.

If the accumulated dust is too heavy to be cleaned please replace the filter with a new one (replaceable air filter is an optional fitting).



### CASSETTE TYPE

#### 1. Open the air-in grill

Push the grill switches towards the middle simultaneously as indicated in sketch A. Then pull down the air-in grill.

### CAUTION

The control box cables, which are originally connected with the main body electrical terminators must be pulled off before doing as indicated above.

#### 2. Take out the air-in grill (together with the air filter shown in Sketch B)

Pull the air-in grill down at 45° and lift it up to take out the grill.

#### 3. Dismantle the air filter

4. Clean the air filter (Vacuum cleaner or pure water may be used to clean. If the dust accumulation is too heavy, please use soft brush and mild detergent to clean it and dry out in cool place).

The air-in side should face up when using vacuum cleaner. (See Fig. 1)

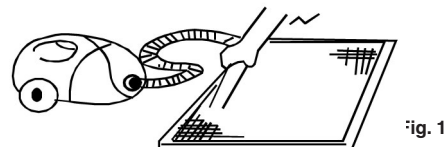


Fig. 1

The air-in side should face down when using water. (See Fig. 2)

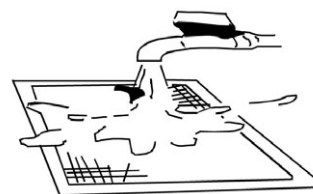


Fig. 2

### CAUTION

Do not dry out the air filter under direct sunshine or with fire.

#### 5. Re-install the air filter

6. Install and close the air-in grill in the reverse order of step 1 and 2 and connect the control box cables to the corresponding terminators of the main body.

### NOTE

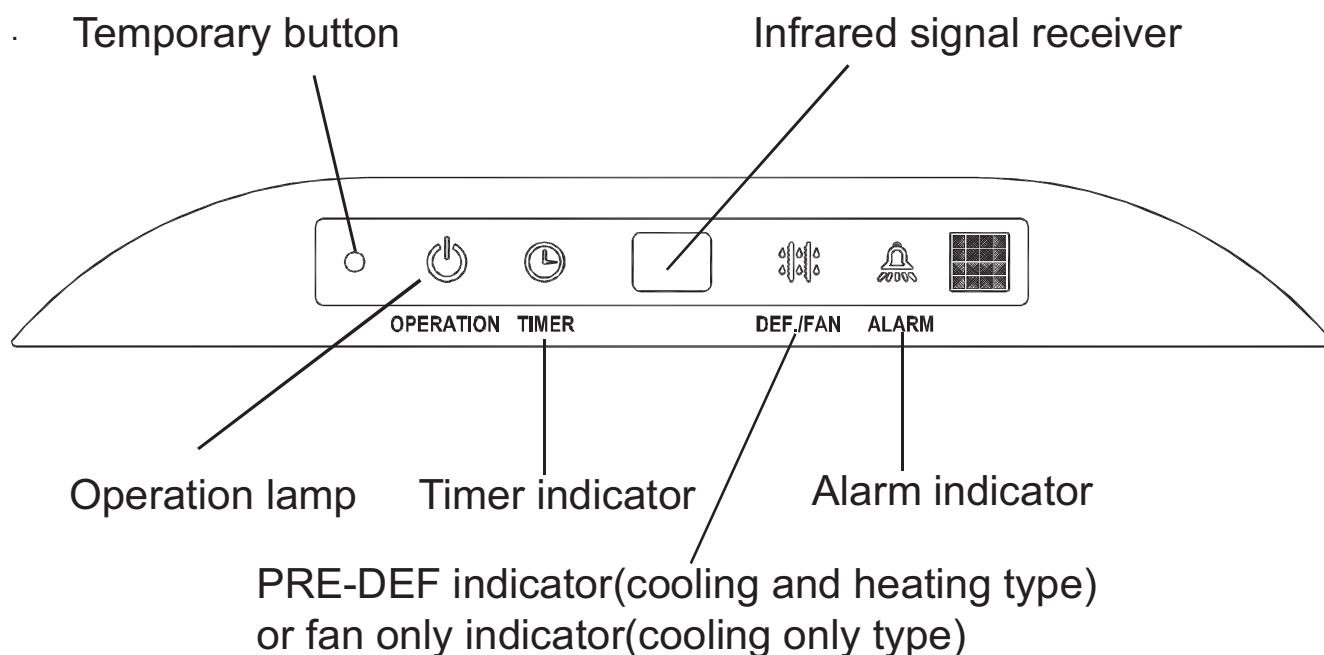
High-static Pressure Parvis Split Type has no air filter.

## 8. CONTROL PANEL

### 90 x 90 MODELS

The air conditioner consists of the indoor unit, the outdoor unit, the connecting pipe and the remote controller.

#### Function indicators on indoor unit display panel



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

Two modes including AUTO and FORCEDCOOL can be selected through the TEMPORARY BUTTON on the air-in grill control box of the indoor unit.

Once you push this button, the air conditioner will run in such order: AUTO, FORCED COOL, OFF, and back to AUTO.

**AUTO.**

The OPERATION lamp is lit, and the air conditioner will run under AUTO mode.

The remote controller operation is enabled to operate according to the received signal.

**FORCED COOL**

The OPERATION lamp flashes, the air conditioner will turn to AUTO after it is enforced to cool with a wind speed of HIGH for 30 minutes.

The remote controller operation is disabled.

**OFF**

The OPERATION lamp goes off. The air conditioner is OFF while the remote controller operation is enabled.

**NOTE:** This manual does not include Remote Controller Operations, see the <<Remote Controller Owner's manual>> packed with the unit for details.



## 9.TROUBLES AND CAUSES

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

### RECHECK Inoperative

The power fuse is blown or the circuit breaker has been tripped.

The batteries in the remote controller are exhausted.

The timer is set.

### Does not cool or heat well

The air inlet or outlet of the outdoor unit is blocked.

Doors or windows are open.

The air filter is clogged with dust.

The louver is not at the correct position.

The fan speed is set to low.

The temperature setting is too high or too low.

### THESE ARE NOT FAILURES

#### Roomair is smelly

A bad odor comes from the air conditioner.

Smells impregnated in the wall, carpet, furniture, clothing, or furs, are coming out. A white mist of chilled air or water is generated from the outdoor unit.

### CAUTION

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

- The indicator lamps flash rapidly (five times per second), you disconnect the unit with the power and then connect the unit with the power again after two or three minutes but the lamps still flash. Switch operations are erratic.
- The fuse is blown frequently or the circuit breaker is tripped frequently.
- Foreign matter or water has fallen inside the air conditioner.
- Any other unusual condition is observed.

### Setting Change is Impossible

**Symptoms:** The fan speed can not be changed.

**Causes:** Check whether the MODE indicated on the display is "AUTO"

Check whether the MODE indicated on the display is "DRY"

**Reason and Disposal:** When the automatic mode is selected, the air conditioner automatically selects the fan speed.

When dry operation is selected, the air conditioner automatically select the fan speed. The fan speed can be selected during "COOL", "FAN ONLY", and "HEAT"

### The Transmission Indicator "▲" Never Comes On

**Symptoms:** The remote control signal is not transmitted even when the ON/OFF button is pushed.

**Causes:** Check whether the batteries in the remote controller are exhausted.

**Reason and Disposal:** The remote control signal is not transmitted, because the power supply is off.

### The Display Never Comes On

**Symptoms:** The TEMP. indicator does not come on.

**Causes:** Check whether the MODE indicated on the display is "FAN ONLY".

**Reason:** The temperature cannot be set during fan only operation.

### The Display Goes Off

**Symptoms:** The indication on the display disappears after a lapse of time.

The ON TIMER indicators go off after a lapse of certain time.

**Causes:** Check whether the timer operation has come to an end when the OFF TIMER is indicated on the display.

Check whether the timer operation is started when the ON TIMER is indicated on the display.

**Reason:** The air conditioner operation stops since the set time elapsed.

When the time set to start the air conditioner is reached, the air conditioner will automatically start and the appropriate indicator will go off.

### The Signal Receiving Tone does Not Sound

**Symptoms:** No receiving tone sounds from the indoor unit even when the ON/OFF button is pushed.

Buttons on the remote controller don't work.

**Causes:** Check whether the signal transmitter of the remote controller is properly directed to the receiver of the indoor unit when the ON/OFF button is pushed.

**Disposal:** Direct the signal transmitter of the remote controller to the receiver of the indoor unit, and then repeatedly push the ON/OFF button twice. Press Reset button.

## 10. TABLE TROUBLES

### Modelo 18

NO.	Malfunction	Running lamp	Timer lamp	Defrosting lamp	Alarm lamp
1	In-outdoor unit communication checking channel is abnormal	×	★	×	×
2	Room temperature sensor checking channel is abnormal	★	×	×	×
3	Evaporator sensor checking channel is abnormal	×	×	★	×
4	Water-level alarm malfunction	×	×	×	★
5	EEPROM malfunction	★	★	×	×
6	IPM module protection	★	×	×	●
7	Condenser sensor checking channel is abnormal	★	●	×	×
8	Outdoor unit voltage protection	★	●	×	●
9	Outdoor unit over-current protection	★	★	×	★

( × Extinguish, ★ Flash at 5Hz, ● On )

### Modelo 20, 30, 36, 48

NO.	Malfunction	LED1 OPERATION	LED2 TIMER	LED3 DEF.FAN	LED4 ALARM	display (DIGITAL TUBE)
1	Room temperature sensor checking channel is abnormal		⊙			E2
2	Pipe temperature sensor checking channel is abnormal	⊙				E3
3	Outdoor pipe TEMP. sensor checking channel is abnormal			⊙		E4
4	Outdoor malfunction	⊙	⊙	⊙	⊙	E6
5	EEPROM malfunction	⊙	⊙			E7
6	Water-level alarm malfunction				⊙	E8
	⊙ Flashing at 5HZ					

# 11. Remote Controller

## CONTENTS

PRECAUTIONS

INDICATORS AND FUNCTIONS

BUTTONS AND THEIR FUNCTIONS

OPERATION INSTRUCTIONS

## NOTE

1. The outline figure on cover is for reference only, which may differ from what you purchased.
2. Make sure to read chapter PRECAUTIONS before you operate the air conditioner.
3. This manual is available for model R05/BG.
4. R05/BGE can be applicable for cool only type and cool&heat type air conditioners.

## PRECAUTIONS

- Curtain, door or the like objects will prevent the remote signal from being received by air conditioner.
- Do not get the interior of remote controller wet. It is forbidden to expose it to direct sunlight or locate it in the place with high temp.
- Malfunction may occur if infrared signal receiver on air conditioner is exposed to sunlight. Please shelter the signal receiver from sunlight with curtain.
- Please remove the nearby electronic device for they may affect the performance of remote controller. If necessary, contact the local Midea service centre or technical support centre.
- Do not put the used or different batteries into the remote controller, otherwise remote controller will fail to send signal.
- Please remove the batteries before long period unused, otherwise the remote controller may be damaged.
- If pressing the button reset the remote controller, which indicates low battery, please replace the batteries.
- If no receiving sound is heard from indoor unit or on remote controller does not flash, please replace the batteries.
- Effective transmitting distance of remote controller is 8m, please aim the signal sending part to the receiver on air conditioner.

## MODEL AND SPECIFICATION

Model: R05/BGE  
 Rated voltage: 3.0V (2 pieces of LR03 7# batteries)  
 Min voltage for sending signal of CPU: 2.4V  
 Effective receiving distance: 8m - 11m  
 Operation condition: -5~60°C

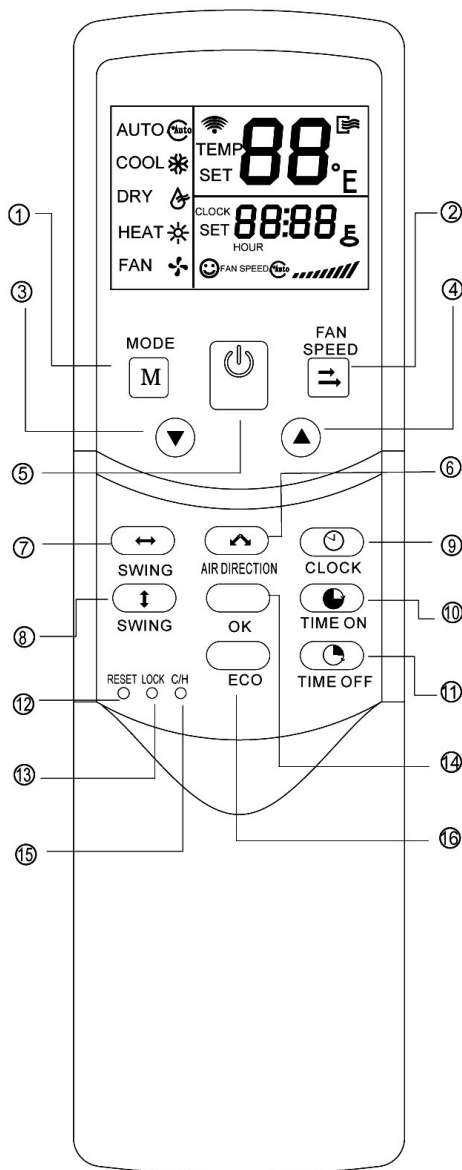
## INDICATORS AND FUNCTIONS

- 1.TEMP: Display the set temperature. Adjust temperature via ▲ and ▼. No display in this area if the unit is on FAN mode.
- 2.TRANSMITTING DISPLAY: The icon will flash once when the signal is sent by remote controller.
- 3.ON/FF: Icon is displayed when the remote controller is turned on, or vice versa.
- 4.RUNNING MODE: Press MODE to display current running mode. AUTO, COOL, DRY, HEAT and FAN can be selected. (HEAT function is invalid for cool only type unit.)
- 5.TIME: Display the current set time. Press CLOCK for 5s, icon indicating hour will flash. Press this button again, icon indicating minute will flash. And are used to adjust the figure. Setting or modification is effective only by pressing OK button to make confirmation.
- 6.LOCK: The icon will be lightened or off when pressing LOCK. In locked state, all the buttons are ineffective except button LOCK.
- 7.Time ON/OFF: In the state of time ON, icon ON will be lightened, which is the same to the state of time OFF.  
Setting timer ON and OFF simultaneously, both icons ON and OFF are displayed.
- 8.FAN SPEED: Press FAN SPEED to display the current wind speed. AUTO, LOW, MED and HIGH can be selected. The default state is high fan speed for the unit without medium fan speed.
- 9.ECONOMIC OPERATION: This icon will be lightened or off when pressing ECO button.

### NOTE

All the above icons will be displayed only when the remote controller is electrified for the first time or reset.

## BUTTONS AND THEIR FUNCTIONS



**1.MODE:** Once pressing, running mode will be selected in the following sequence: AUTO-COOL-DRY-HEAT-FAN

**2.FAN SPEED:** Fan speed will be selected in following sequence once pressing this button: AUTO-LOW-MED-HIGH

**3.ADJUST:** Decrease the set temp. Keeping pressing will decrease the temp with 1° per 0.5s.

**4.ADJUST:** Increase the set temp. Keeping pressing will increase the temp with 1° per 0.5s.

**5.ON/OFF:** For turning on or turning off the air conditioner.

**6.AIR DIRECTION:** Activate swing function of air deflector. Once pressing, air deflector will turn 6°C. For normal operation and better cooling and heating effect, deflector will not turn to the degree which is the state of deflector when the unit is turned off. (Only available when remote controller is used with corresponding unit.)

**7.HORIZ SWING:** Activate or turn off horizontal swing function. (Only available when remote controller is used with corresponding unit.)

**8.VERT SWING:** Activate or turn off vertical swing function. (Only available when remote controller is used with corresponding unit.)

**9.CLOCK:** Display the current time. (12:00 is displayed when resetting or electrifying for the first time.) Press CLOCK for 5s, icon indicating hour will flash with 0.5s. Press it again, icon indicating minute will flash with 0.5s. ▲ and ▼ are used to adjust the figure. Setting or modification is effective only by pressing OK button to make confirmation.

**10.TIME ON:** For time ON setting. Once pressing this button, the time will increase by 0.5 hour. When the set time exceeds 10 hours, pressing the button will increase the time by 1 hour. Adjusting the figure to 0.00 will cancel time ON setting.

**11.TIME OFF:** For time OFF setting. Once pressing this button, the time will increase by 0.5 hour. When the set time exceeds 10 hours, pressing the button will increase the time by 1 hour. Adjust the figure to 0.00 will cancel time ON setting.

**12. RESET (inner located):** Press this button with a needle of 1mm to cancel the current setting and reset remote controller.

**13.LOCK (inner located):** Press this button with a needle of 1mm to lock or unlock current setting

**14.OK:** Used to confirm the time setting and modification.

**15.COOL/HEAT (inner located):** Press this button with a needle of 1mm to shift mode between COOL only and COOL&HEAT. During setting, back light will be lightened. Factory default mode is COOL & HEAT.

**16. ECO:** Activate or turn off economic operation mode. It is suggested to turn on this function when sleeping. (Only available when remote controller is used with corresponding unit.)

## OPERATION INSTRUCTIONS

### INSTALL AND REPLACE BATTERIES

Install 2 pieces of 7# alkaline batteries.  
Slide the cover to install batteries and make sure to place them in right pole.

### AUTO OPERATION

Switch on the power and running indicator light on indoor unit flashes.

1. Press MODE to select AUTO.
2. Adjust temp via ▲ and ▼. Generally the range is 17° ~ 30°C .
3. Press ON/OFF and running indicator light on indoor unit is lightened. Air conditioner will work on AUTO mode and fan speed is AUTO which is non adjustable.
4. ECO is effective on AUTO operation.

### COOL/HEAT/FAN OPERATION

1. Press MODE to select COOL, HEAT or FAN.
2. Adjust temp via ▲ and ▼. Generally the range is 17° ~ 30°C .
3. Press FAN SPEED to select AUTO, LOW, MED or HIGH.
4. Press ON/OFF and running indicator light on indoor unit is lightened. Air conditioner will work on the set mode. Stop operation via ON/OFF.

### NOTE

On FAN mode, temp is non adjustable and ECO is ineffective. Procedure 2 is omitted.

### DRY OPERATION

1. Press MODE to select DRY.
2. Adjust temp via ▲ and ▼. Generally the range is 17° ~ 30°C .
3. Press ON/OFF and running indicator light on indoor unit is lightened. Air conditioner will work on DRY mode. Turn off the unit via ON/OFF.
4. On DRY mode, ECO and FAN SPEED are unavailable.

### TIMER OPERATION

TIME ON and TIME OFF are used to turn on and turn off the unit at the set time respectively.

### TIME ON OPERATION

1. Press TIME ON, icon SET, HOUR and ON are lightened.
2. Press TIME ON again and adjust the time.
3. Keep pressing this button, the time will increase by 0.5 hour. When the set time exceeds 10 hours, pressing the button will increase the time by 1 hour.
4. 0.5s after setting, remote controller will send TIME ON command to the unit.

### TIME OFF OPERATION

1. Press TIME OFF, icon SET, HOUR and OFF are lightened.
2. Press TIME OFF again and adjust the time.
3. Keep pressing this button, the time will increase by 0.5 hour. When the set time exceeds 10 hours, pressing the button will increase the time by 1 hour.
4. 0.5s after setting, remote controller will send

### SET TIME ON AND TIME OFF SIMULTANEOUSLY

1. Set TIME ON according to procedures 1 and 2 specified in.

### TIME ON OPERATION

2. Set TIME OFF as the procedures 1 and 2 specified in

### TIME OFF OPERATION

3. If both the set time of TIME ON and TIME OFF not exceed 10 hours, time OFF operation will be activated 0.5 hour later than time ON operation. If both the set time of TIME ON and TIME OFF exceed 10 hours, time OFF operation will be activated 1 hour later than time ON operation.
4. 0.5s after setting, remote controller will send TIME ON command to the unit.

### MODIFICATION OF TIMER OPERATION

Press corresponding button and readjust the time of time ON and time OFF. Adjust the time figure to 0.00 to cancel the timer operation.

### NOTE

The time set in timer operation is the relative figure based on the clock on remote controller. Adjusting clock is unavailable when TIME ON or TIME OFF is activated.



### Remote Controller Specifications

Model	R71/E,R71/CE
Rated Voltage	3.0V
Lowest Voltage of CPU Emitting Signal	2.0V
Reaching Distance	8m (when using 3.0 voltage, it Gets 11m)
Environment Temperature Range	-5℃, 60℃

### Performance Features

1. Operating Mode: COOL、HEAT、DRY、FAN only and AUTO .
2. Timer Setting Function in 24 hours.
3. Indoor Setting Temperature Range : 17℃~30℃.
4. LCD (Liquid Crystal Display) of functions.

### Introduction of Function Buttons on the Remote Controller

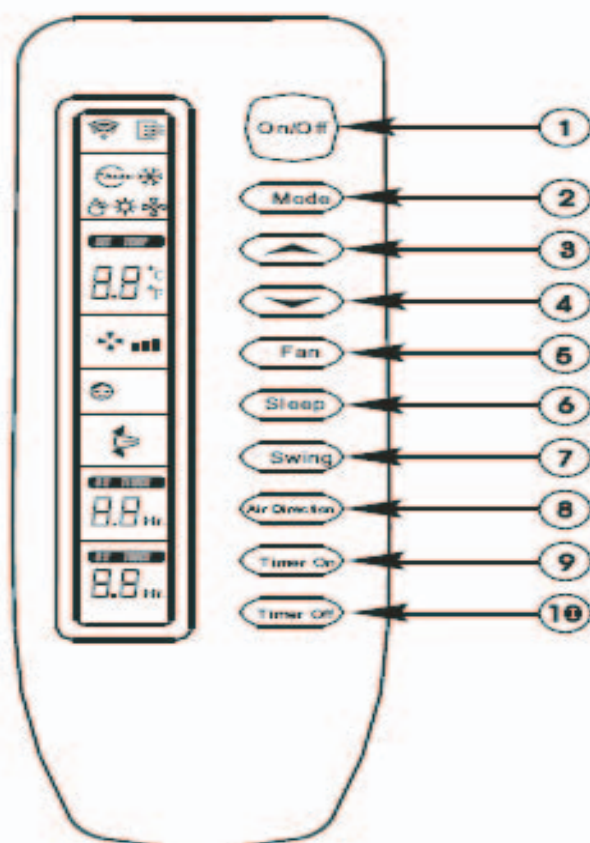


Fig. 1

- ① **On/off Button:** Push this button to start the unit operation. Push the button again to stop the unit operation.
- ② **Mode Button:** Each time you press the button, a mode is selected in a sequence that goes from AUTO、COOL、 DRY、 HEAT and FAN only as the following figure indicates:



▲ **NOTE:** HEAT only for Heat Pump

- ③ ▲ **Button :** Push the button to increase the indoor temperature setting to 30°C.
- ④ ▼ **Button :** Push the button to decrease the indoor temperature setting to 17°C.
- ⑤ **Fan Button:** This button is used for selecting Fan Speed. Each time you press the button, a fan speed is selected in a sequence that goes from AUTO、LOW、MED to HIGH, then back to Auto. When you select the AUTO or DRY mode, the fan speed will be automatically controlled and you can not set the fan speed.
- ⑥ **Sleep Button:** Press this button to go into the Energy-Saving operation mode, press the button again to stop operation. When the operation mode is either DRY or FAN only, this function can not be used.
- ⑦ **Swing Button:** Press the SWING button to activate the swing feature. Push the button again to stop.
- ⑧ **Air direction Button:** Press this button to change the swing angle of the louver. The swing angle of the louver is 6°C for each press. When the louver swing at a certain angle which would affect the cooling and heating effect of the air conditioner, it would automatically change the swing direction. No symbol will appear in the display area when press this button.
- ⑨ **Timer on Button:** Press this button to initiate the auto-on time sequence. Each press will increase the auto-timed setting in 30 minutes increments. When the setting time displays 10Hr, each press will increase the auto-timed setting 60 minutes increments. To cancel the auto-timed program, continue pressing the button until nothing displays.
- ⑩ **Timer off Button:** Press this button to initiate the auto-off time sequence. Each press will increase the auto-timed setting in 30 minutes increments. When the setting time displays 10Hr, each press will increase the auto-timed setting 60 minutes increments. To cancel the auto-timed program, continue pressing the button until nothing displays.



## Names and Functions of indicators on Remote Controller

### Display Panel

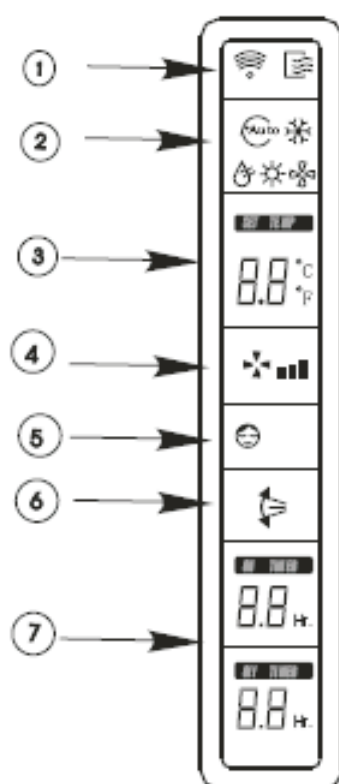


Fig. 2

- ① **TRANSMISSION Indicator:**  
This indicator lights when remote controller transmits signals to indoor unit.
- ② **MODE indicator:**  
Displays the current operation modes. Including AUTO(☼), COOL(❄️), DRY(☁️), HEAT(🔥) or FAN(🌀). HEAT only available for heat pump model.
- ③ **TEMPERATURE indicator:**  
Displays the temperature settings(17°C to 30°C).
- ④ **FAN SPEED indicator:**  
Displays the selected fan speed, AUTO(🌀) and three fan speed levels LOW(🌀.), MED(🌀.), HIGH(🌀.). Displays 🌀. (flashing) when the operating mode is either AUTO or DRY.
- ⑤ **SLEEP indicator:**  
When the **Sleep** button is pushed, this signal indicator lights. Nothing appears when the operating mode is either DRY or FAN only.
- ⑥ **SWING indicator:**  
This indicator lights up when the **SWING** button is pressed.
- ⑦ **TIMER indicator:**  
The time set for timer operation is indicated. (0.5 ~ 24 hours)

**▲ NOTE:** All items are shown in the Fig.2 for the purpose of clear presentation But during the actual operation only the relative functional items are shown on the display panel.

## Operating the Remote Controller

### Install / Replace Batteries

Use two alkaline dry batteries (R03/LR03X2).

Do not use rechargeable batteries.



- (1) Remove the battery cover by pulling it according to the arrow direction.
- (2) Insert new batteries making sure that the (+) and (-) of battery are installed correctly.
- (3) Reattach the cover by sliding it back into position.

### NOTE

1. *When replacing batteries, do not use old batteries or a different type battery. This may cause the remote controller to malfunction.*
2. *If you do not use the remote controller for several weeks remove the batteries. Otherwise battery leakage may damage the remote controller.*
3. *The average battery life under normal use is about 6 months.*
4. *Replace the batteries when there is no answering beep from the indoor unit or if the Transmission Indicator light fails to appear.*

### AUTOMATIC OPERATION

When the Air Conditioner is ready for use, switch on the power and the OPERATION indicator lamp on the display panel of the indoor unit starts flashing.

1. Use the **Mode** select button to select AUTO.
2. Push the  or  button to set the desired room temperature. The most comfortable temperature settings are between 21°C to 28°C.
3. Push the **On/off** button to start the air conditioner. The OPERATION lamp on the display panel of the indoor unit lights. The operating mode is AUTO. The FAN SPEED is automatically controlled.
4. Push the **On/off** button again to stop the unit operation.

### NOTE

1. *In the AUTO mode, the air conditioner can logically choose the mode of COOL, FAN, HEAT and DRY by sensing the difference between the actual ambient room temperature and the set temperature on the remote controller.*
2. *If the AUTO mode is not comfortable for you, the desired mode can be selected manually.*

### **COOL , HEAT, and FAN ONLY Operation**

1. If the AUTO mode is not comfortable , you may manually override the settings by using COOL, DRY, HEAT( HEAT PUMP units only), or FAN ONLY modes.
2. Push the ▲ or ▼ button to set the desired room temperature. When in COOLING mode, the most comfortable settings are 21°C or above. When in HEATING mode, the most comfortable settings are 28°C or below.
3. Push the Fan button to select the FAN mode of AUTO, HIGH, MED or LOW.
4. Push the On/off button. The operation lamp lights and the air conditioner starts to operate per your settings. Push the On/off button again to stop this unit operation.

#### **NOTE**

*The FAN ONLY mode cannot be used to control the temperature. While in this mode, only steps 1、3 and 4 may be performed.*

### **DRY OPERATION**

1. Push the Mode button to select DRY.
2. Push the ▲ or ▼ button to set the desired temperature from 21°C to 28°C.
3. Push the On/off button. The operation lamp lights and the air conditioner starts to operate in the DRY mode. Push the On/off button again to stop this unit operation.

#### **NOTE**

*Due to the difference of the set temperature of the unit and the actual indoor temperature, the Air Conditioner when in DRY mode will automatically operate many times without running the COOL and FAN mode.*

### **TIMER OPERATION**

Push Timer on/off button to set the on and off times of the unit. The effective operation time set by the remote controller for the timer function is limited to a period of between 0.5 and less than 24 hours.

#### **1. To set the STARTING time.**

- 1.1 Push the Timer on button, then the remote controller shows ON TIMER , the last set time for the starting operation and the signal "Hr" will be shown on the Timer display area. You are now ready to reset the time to START the operation.
- 1.2 Push the Timer on button again to set desired unit start time.
- 1.3 After setting the Timer on ,there will be a one-half second delay before the remote controller transmits the signal to the air conditioner.



## 2. To set the STOPPING time.

- 2.1 Push the **Timer off** button and the remote controller will show **OFF TIMER**, the last set time for the stopping operation and the signal "Hr" will be shown on the Timer display area. You are now ready to reset the time of the STOP operation.
- 2.2 Push the **Timer off** button again to set the time you want to stop the operation.
- 2.3 After setting the Timer off, there will be a one-half second delay before the remote controller transmits the signal to the air conditioner.

## 3. Set the starting & stopping time

- 3.1 Push the **Timer on** button, the remote controller will show **ON TIMER**, the last set time for START operation and the signal "Hr" will be shown on the Timer display area. You are now ready to readjust the **Timer on** to start the operation.
- 3.2 Push the **Timer on** button again to set the time you want to start the operation.
- 3.3 Push the **Timer off** button, the remote controller will show **OFF TIMER**, the last set time for STOP operation and the signal "Hr" will be shown on the Timer display area. You are now ready to reset the time to STOP operation.
- 3.4 Push the **Timer off** button again to set the time you want to stop the operation.
- 3.5 After setting the TIMER, there will be a one-half second delay before the remote controller transmits the signal to the Air Conditioner.

### ▲NOTE

- If the same time is set for both START and STOPPING settings, the stopping time will automatically increase 0.5hr (the set time displays less than 10Hr) or one hour (the set time displays 10Hr or more).
- To change the Timer on/off time, just press the corresponding TIMER button and reset the time.
- The setting time is relative time. That is the time set is based on the delay of the current time.



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