

Owner's Manual

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NOTE TO EQUIPMENT OWNER:

Please read this Owner's Information Manual carefully before installing and using this appliance and keep this manual for future reference.

For your convenience, please record the model and serial numbers of your new equipment in the spaces provided. This information, along with the installation data and dealer contact information, will be helpful should your system require maintenance or service.

UNIT INFORMATION

Model # _____

Serial # _____

INSTALLATION INFORMATION

Date Installed _____

DEALERSHIP CONTACT INFORMATION

Company Name: _____

Address: _____

Phone Number: _____

Technician Name: _____

A NOTE ABOUT SAFETY

Any time you see this symbol  in manuals, instructions and on the unit, be aware of the potential for personal injury. There are 3 levels of precaution:

1. **DANGER** identifies the most serious hazards which will result in severe personal injury or death.
2. **WARNING** signifies hazards that could result in personal injury or death.
3. **CAUTION** is used to identify unsafe practices which could result in minor personal injury or product and property damage.

NOTE is used to highlight suggestions which will result in enhanced installation, reliability, or operation.

SAFETY CONSIDERATIONS

Read these instructions thoroughly and follow all warnings or cautions included in the literature and attached to the wired controller. Consult local building codes and National Electrical Code (NEC) for special requirements.

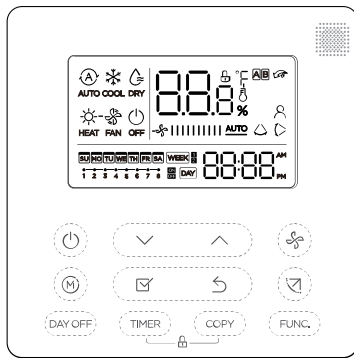
Recognize safety information.

This is the safety-alert symbol .

When you see this symbol on the wired controller and in instructions or manuals, be alert to the potential for personal injury. Understand these signal words: **DANGER**, **WARNING**, and **CAUTION**. These words are used with the safety-alert symbol.

DANGER identifies the most serious hazards which will result in severe personal injury or death. **WARNING** signifies hazards which could result in personal injury or death. **CAUTION** is used to identify unsafe practices which may result in minor personal injury or product and property damage. **NOTE** is used to highlight suggestions which will result in enhanced installation, reliability, or operation.

WIRED CONTROLLER FEATURES and FUNCTIONS



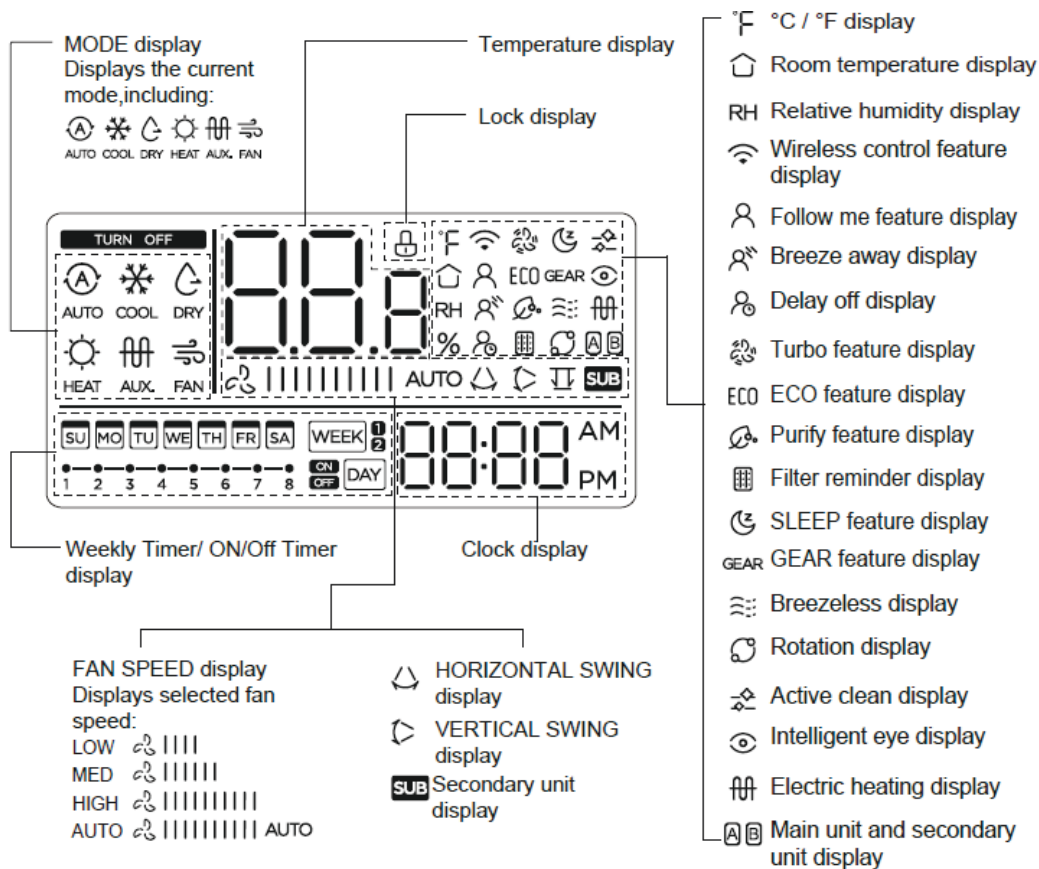
Feature:

- LCD display.
- Malfunction code display: it can display the error code, helpful for service.
- 4-way wire layout design, no raised part at backside, more convenient to place the wires and install the device.
- Room temperature display.
- Weekly Timer.

Function:

- Mode: Choose Auto-Cool-Dry Heat-Fan
- Fan speed: Auto/Low/Med/High speed
- Swing (on some models)
- Timer ON/OFF
- Temp setting
- Weekly timer
- Follow me
- Turbo
- 24-hour System
- 12-hour System
- Auto-restart
- Individual louver control (on some models)
- Automatic airflow test
- Rotation & Back-up
- Dual Control
- Group Control
- Child Lock
- LCD display
- Clock

Wired Controller LCD Function Names



Wired Controller Functions

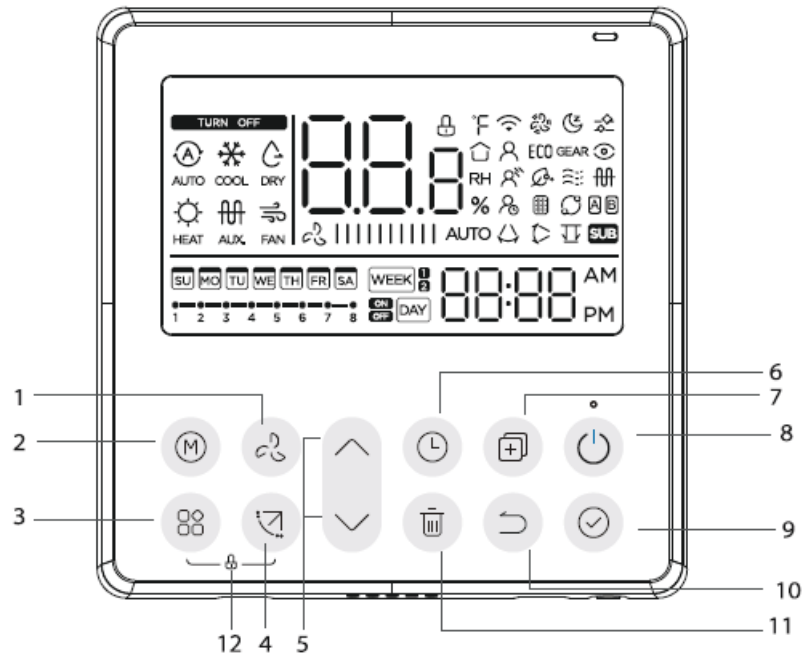


Fig. 1 — Wired Controller Functions

Functions:

- | | |
|--------------|-------------------|
| 1. FAN SPEED | 7. COPY |
| 2. MODE | 8. POWER |
| 3. FUNCTION | 9. CONFIRM |
| 4. SWING | 10. BACK |
| 5. ADJUST | 11. DAY OFF/DELAY |
| 6. TIMER | 12. CHILD LOCK |

INITIAL SETUP

Set the Current Day and Time

1. Press **Timer** for 2 seconds or more. The timer display flashes.



Fig. 2 — Timer

2. Press the **UP** or **DOWN** arrow to set the date. The selected date flashes.



Fig. 3 — Up & Down Arrow



Fig. 4 — Days of the Week

3. The date setting is complete and the time setting is prepared after pressing **TIMER** or **CONFIRM** or there is no button press for 10 seconds.



Fig. 5 — Complete

4. Press the **UP** or **DOWN** arrow to set current time. Press repeatedly to adjust the current time in 1-minute increments. Press and hold to adjust the current time continuous.



Fig. 6 — UP and DOWN Arrow



ex. Monday 11:20

Fig. 7 — Select a Day

5. The setting is done after pressing **CONFIRM** or there is nothing pressed for 10 seconds.



Fig. 8 — Confirm

6. **Time scale selection** - Press **TIMER** and **TRASH CAN** for 2 seconds to alternate the clock time display between the 12th and 24th hour scale.



Fig. 9 — Timer



Fig. 10 — Trash Can

Operation

To start/stop operation

1. Press **POWER** to power on the controller.



Fig. 11 — Power

Freeze Protection

1. For setting the 46°F temperature set back.



Fig. 12 — Down Arrow

When the heating mode temperature is 60° F (16° C) or the set minimum temperature, press the key twice within 1 second to turn on the 46°F(8°C) heating function. When the 46°F(8°C) heating function is enabled, **Follow Me**, **SLEEP**, **Turbo** and the **Daily Timer** features are canceled.

Set the Operation Mode

Operation mode setting (Heat mode is invalid for cool only type unit)

1. Press to select the **OPERATION** mode:



Fig. 13 — Mode

NOTE: For heat pump only heating operation, set the mode to **HEAT**.

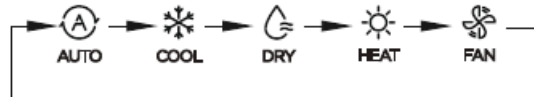


Fig. 14 — Operation Mode

2. For dual fuel operation, set the mode to **HEAT+AUX**:

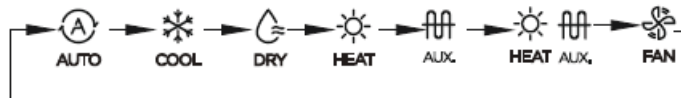


Fig. 15 — Operation Mode

3. For furnace only heating operation, set the mode to **AUX**:



Fig. 16 — Operation Mode

When furnace heating mode is selected,  appears, the fan speed is **AUTO**. The **SLEEP**, 46°F-degree heating, **TURBO**, and **ROTATION** functions are not available in furnace **HEATING** mode.

When the mode is selected as **HEATING** and **AUX.** mode,  appears. This operates the system for dual fuel heating. Refer to the Installation Manual to set the **S3** dial for outdoor temperature for dual fuel. Page 11 of the Installation Manual shows the S3 dial temperature table for setting the compressor drop out temperature for dual fuel.

Room Temperature Setting



Lower - Press the UP or DOWN arrow to set the room temperature. Indoor Setting Temperature Range: 50/60/62~86°F (10/16/17~30°C) or 68~82°F (20~28°C). Model dependent



Raise

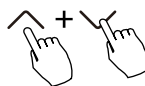


Fig. 17 — Up and Down Arrows

F° and C° scale selection (on some models) - Press the up or down arrow for 3 seconds to alternate the temperature display between the F° and C° scale.

Fan Speed Setting

Press **FAN SPEED** to set the fan speed (this option is not available under **AUTO** or **DRY** mode).



Fig. 18 — Fan Speed

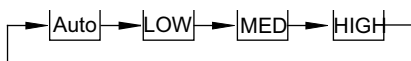


Fig. 19 — Modes

When step-less speed regulation is supported, press the fan speed key to cycle through.

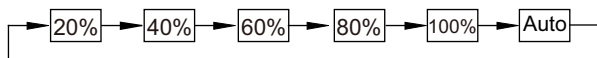


Fig. 20 — Modes

Press **MODE** and **FAN SPEED** together for 3 seconds to turn on or turn off the keypad tone.



Fig. 21 — Mode Plus Fan Speed

Filter Reset Function

After the indoor unit sends the wire controller filter usage time, the filter cleaning prompt icon lights up. Press **FUNC.** to select the filter cleaning prompt icon, then press **OK** to reset the filter screen time. The filter cleaning reminder icon turns off.

Humidity Setting Function

1. When the indoor unit sending wire controller has the dual control function of the temperature and humidity, in **DEHUMIDIFICATION** mode, press **FUNC.** to select the **RH** icon. Press **CONFIRM** to enter the humidity control mode, the **RH** icon flashes, press the up and down keys to adjust the humidity, the setting range is OFF->35%~85%, adjusted with 5% humidity. Exit the humidity adjustment state after 5 seconds of inactivity.
2. After entering the humidity control mode, press the up and down keys to adjust the set temperature and display the set temperature for 5 seconds, then restore the set humidity display.
3. After switching the mode, exit the humidity control mode.

FOLLOW ME

Activate FOLLOW ME

1. Press **FUNC.** to select the **FOLLOW ME** icon.
2. Press **CONFIRM** to activate **FOLLOW ME**.

Deactivate FOLLOW ME

1. Press **FUNC.** to select the **FOLLOW ME** icon.
2. Press **CONFIRM** to deactivate.

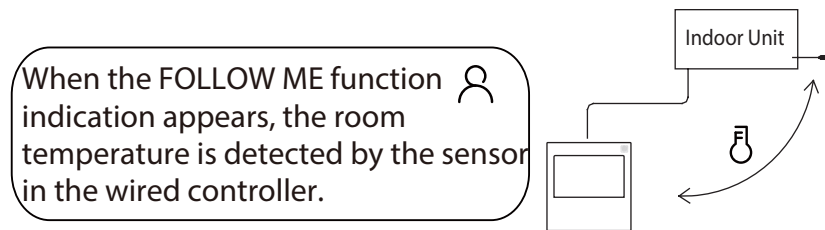


Fig. 22 — FOLLOW ME

Timer Functions

WEEKLY Timer

Use this timer function to set operating times for each day of the week.

ON Timer

Use to start the air conditioner operation. The timer operates and starts the air conditioner operation once the time has passed.

OFF Timer

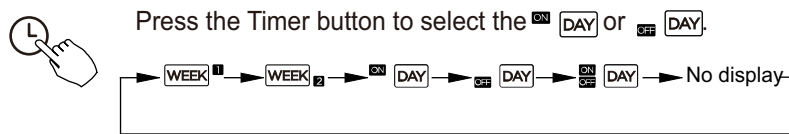
Use to stop the air conditioner operation. The timer operates stops the air conditioner once the time has passed.

ON AND OFF Timer

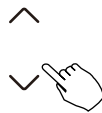
Use to start and stop the air conditioner operation. The timer starts and stops the air conditioner once the time has passed.

Set the On or Off TIMER

1. Press **Timer** to select the **On** day or **Off** day.



2. Press **CONFIRM** and the Timer display flashes.
3. Press the up or down arrows to set the time. Once the time is set, the timer starts or stops automatically.



4. Press **CONFIRM** again to finish the settings.

NOTE: The secondary wired controller cannot set the timer.

WEEKLY Timer One

Weekly Timer Setting

Press **TIMER** to and then press **CONFIRM**.

Day of the Week Setting

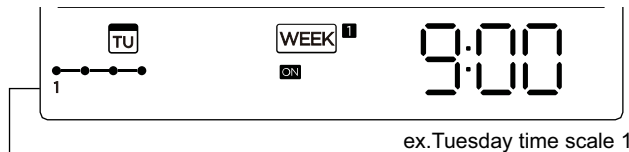
Press the up or down arrows to select the day of the week and then press **CONFIRM**.



ON Timer Setting of Timer Setting 1

Press the up or down arrows to set the time of the **On** timer then press **CONFIRM**.

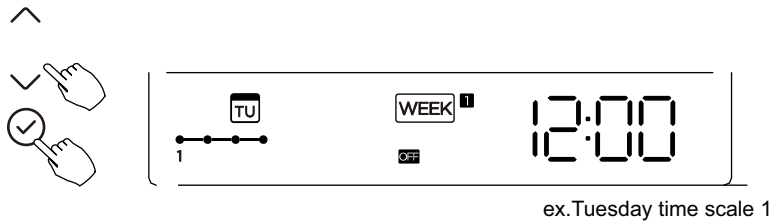
WEEKLY Timer One



Up to 4 timer settings can be saved for each day of the week. It is convenient if the WEEKLY TIMER is set according to the user's life style.

OFF Timer Setting of Timer Setting One

Press the up or down arrows to set the desired time for the **OFF Timer** then press **CONFIRM**.

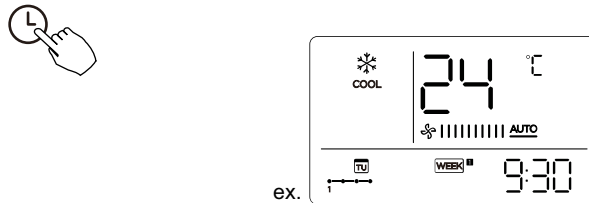


Different timer settings can be set by repeating step 3 to 4.

NOTE: The weekly timer setting can be returned to the previous step by pressing **BACK**. The time of the timer setting can be deleted by pressing **DAY OFF**. The current setting will be restored and withdrawn from the weekly timer setting automatically when there is no operation for 30 seconds.

WEEKLY Timer Operation

To activate the **WEEKLY TIMER** operation, press **TIMER** while **WEEK 1** appears on the LCD.



To deactivate **WEEKLY TIMER** operation, press **TIMER** until **WEEK 1** no longer appears on the LCD.

To turn off the air conditioner during the weekly timer

1. Press **POWER** once and quickly, the air conditioner will turn off temporarily. Additionally the air conditioner will turn on automatically until the time of **ON** timer. For example, press **POWER** once and quickly at 10:00, the air conditioner will turn on at 14:00.
2. Press Power for 2 seconds, the air conditioner will turn off completely, at the same time cancel the **TIMING** function.

To set the DAY OFF (for a holiday)

1. During the weekly timer, press **CONFIRM**.
2. Use the arrow buttons to select the day in this week.
3. Press **DAY OFF** to set the day off.



ex. The DAY OFF is set for Wednesday

NOTE: The DAY OFF can be set for other days by repeating steps 2 and 3.

4. Press **BACK** to back to the weekly timer.

NOTE: The DAY OFF setting is canceled automatically after the set day has passed.

DELAY Function

During the weekly timer, press **FUNC.**, select the **DELAY** function and press **CONFIRM**. Several icons appear;

“0h” “1h” and “2h”

Wait for 3 seconds to **CONFIRM**. When the delay function is activated  appears.

NOTE: The delay function can only be enabled in the Weekly Timer 1 and Weekly Timer 2.

Copy out the setting in one day into the other day

A reservation made once can be copied to another day of the week. The whole reservation of the selected day of the week will be copied. The effective use of the copy mode ensures ease of making reservations.

1. During the weekly timer, press **CONFIRM**.
2. Press the up or down arrow to select the day to copy from.
3. Press **COPY**, **CY** appears on the LCD.
4. Press the up or down arrows to select the day to copy to.
5. Press **COPY** to confirm.

NOTE: Other days can be copied by repeating step 4 and 5.

6. Press **CONFIRM**. Press **BACK** to back to the weekly timer.

WEEKLY TIMER TWO**Weekly Timer Setting**

1. Press **TIMER** to select the  and press **CONFIRM**.

Day of the week setting

2. Press the up or down arrows to select the day of the week and then press **CONFIRM**.

ON timer setting of timer setting 1

3. Press the up or down arrows to select the setting time. The setting time, mode, temperature and fan speed appear on the LCD. Press **CONFIRM** to enter the setting time process.

IMPORTANT: Up to 8 scheduled events can be set on one day. Various events can be scheduled in either **MODE**, **TEMPERATURE** and **FAN** speeds.

Time Setting

4. Press the up or down arrows to set the time, then press **CONFIRM**.

Operation mode setting

5. Press the up or down arrows to set the operation mode then press **CONFIRM**.

Room temperature setting

6. Press the up or down arrows to set the room temperature, then press **CONFIRM**.

NOTE: This setting is unavailable in the **FAN** or **OFF** modes.

Fan Speed Setting

7. Press the up or down arrows to set the fan speed then press **CONFIRM**.

NOTE: This setting is unavailable in the AUTO, DRY or OFF modes.

8. Different scheduled events can be set by repeating steps 3 through 7.

NOTE: Additional days, in a one week period, can be set by repeating steps 3 through 7.

NOTE: The weekly timer setting can be returned to the previous step by pressing BACK and the current setting is restored. The controller will not save the weekly timer settings if there is no operation within 30 seconds.

WEEKLY timer operation

To start: Press **TIMER** to select the  , and the timer starts automatically.

To cancel: Press **POWER** for 2 seconds to cancel the timer mode. The timer mode can also be canceled by changing the timer mode using **TIMER**.

To set the DAY OFF (for a holiday)

1. After setting the weekly timer, press **CONFIRM**.
2. Press the up or down arrows to select the day of the week.
3. Press **DAY OFF** to create an off day.
4. Set the **DAY OFF** for other days by repeating the steps 2 and 3.
5. Press **BACK** to revert to the weekly timer. To cancel, follow the same procedures used for setup.

NOTE: The DAY OFF setting is canceled automatically after the set day has passed.

Copy out the setting in one day into the other day.

A scheduled event, made once, can be copied to another day of the week. The scheduled events of the selected day of the week will be copied. The effective use of the copy mode ensures the ease of reservation making.

1. In the weekly timer, press **CONFIRM**.
2. Press the up or down arrows to select the day to copy from.
3. Press **COPY**, the letters **CY** appear on the LCD.
4. Press the up or down arrows to select the day to copy to.
5. Press **COPY** to confirm. Other days can be copied by repeating steps 4 and 5.
6. Press **CONFIRM** to confirm the settings.
7. Press **BACK** to revert to the weekly timer.

WEEKLY TIMER TWO**Delete the time scale in one day.**

1. During the weekly timer setting, press **CONFIRM**.
2. Press the up or down arrows to select the day of the week and then press **CONFIRM**.
3. Press the up or down arrows to select the setting time want to delete. The setting time, mode, temperature and fan speed appear on the LCD. The setting time, mode, temperature and fan speed can be deleted by pressing the **DEL** (day off).

ERROR CODES

If the system does not properly operate, note the error code and review Table 1.

Table 1 — Error Codes

DISPLAY ON IDU	INDOOR UNIT ERROR CODE DEFINITION
EH00	Indoor EEPROM malfunction
EL01	Communication malfunction between the indoor and outdoor units
EH03	Indoor fan speed malfunction
EC51	Outdoor EEPROM malfunction
EC52	Condenser coil temperature sensor (T3) malfunction
EC53	Outdoor ambient temperature sensor (T4) malfunction
EC54	Outdoor unit exhaust temperature sensor error
EH60	Indoor Room Temperature Sensor T1 Error
EH61	Indoor Evaporator coil Temperature Sensor T2 Error
EH62	Air inlet temperature sensor Error
EC07	Outdoor DC fan speed malfunction
EH0b	Indoor PCB and display board communication error
EL0C	Refrigerant leakage detection
EH0E	Indoor water level warning Error
FL09	New and old platform match malfunction
PC00	Inverter module (IPM) protection
PC01	Over high voltage or over low voltage protection
PC02	High temperature protection of compressor top/ IPM Temperature protection
PC04	Inverter compressor drive Error
PC03	Low pressure protection
PC0L	Low temperature protection of outdoor unit
EH63	Communication error between the wire controller and the indoor unit
----	Indoor units mode conflict
NOTE: The digital tube shows that DF / FC is in a normal operation state, not fault or protection.	

The error displayed on the wire controller are different from those on the unit. If error code appears, refer to the Owner's and Installation Manual and Service Manual.

Technical Indication and Requirement

EMC and EMI comply with the CE certification requirements.

QUERIES AND SETTINGS

When the air conditioning unit is **OFF**, press **COPY** for 3 seconds, then press **CONFIRM** to enter the **QUERY** mode on the wired controller.

Not pressing a key for 15 seconds or pressing **BACK** or **ON/OFF** exits the temperature query function.

Follow Me function temperature compensation

When the air conditioning unit is off, and in **QUERY** mode, press the up or down arrows to select **tF**. The compensation temperature Range: -5~5°C. Press **CONFIRM** to enter the setting state, press the up or down arrows to select the temperature, then press **CONFIRM** to complete it.

eF: compensation temperature

Mode Customization

When the air conditioning unit is off, and in **QUERY** mode, press the up or down arrows to select the type. Press **CONFIRM** to enter the setting state, press the up or down arrows to select the type, then press **CONFIRM** to complete it.

NOTE: CC mode does not apply to A-COIL.

Set the highest and lowest temperature values

When the air conditioning unit is off, and in **QUERY** mode, press the up or down arrows to select **tHI** or **tLo**. Press **CONFIRM** to enter the setting state. Press the up or down arrows to select the temperature, then press **CONFIRM** to complete it. The highest setting temperature range: 77-86°F (25~30°C). The lowest setting temperature range: 60.8-75.2°F (16~24°C).

tHI: Highest value setting function

tLo: Minimum value setting function

Remote control function selection of wire controller

When the air conditioning unit is off, and in **QUERY** mode, press the up or down arrows to select **rEC**. **ON** or **OF** will be displayed in the temperature area to indicate whether it is valid or invalid. When the selection is invalid, the wire controller does not process any remote control signals. Press **CONFIRM** to enter the setting state, press the up or down arrows to select, then press **CONFIRM**.

Two - line controller address selection

When the air conditioning unit is off, and in **QUERY** mode, press the up or down arrows to select **Adr**, the temperature zone displays -- or A, B. Where -- refers to the code setting of the wire controller. Press **CONFIRM** to enter into the setting state, press the up or down arrows to select, then press **CONFIRM** to complete it.

NOTE: The wire controller code setting dominates.

Adr: The wire controller address setting

Restore Factory Settings

When the air conditioning unit is off, and in **QUERY** mode, press the up or down arrows to select **INIt**, the temperature zone displayed --.

Press **CONFIRM** to enter into the setting state, press the up or down arrows to select to **"ON"**, then press **CONFIRM**.

INIt: Restore Factory Settings

After the wire controller resumes the factory parameter setting, the rotating parameter setting is restored to 10 hours (the highest and lowest temperature are not set). The body temperature compensation is uncompensated; **COOL** and **HEAT**/single **COOL** mode is restored to **COOL** and the **HEAT** model. Restore the temperature range to the factory setting. Remote receiving function is restored to be effective. The address of the two-control first-line controller is restored to the code switch.

