

# 33MC-URC Room Controller



This control system only operates with indoor units of the following types: 40KMC and 40KMQ Cassette, 40QNC and 40QNQ Highwall. For installation instructions of these units, refer to the relevant manuals.

### **CONTENTS**

### PAGE

General Information and Characteristics
Power Up 4
Setting Mode Operation
OFF Mode 4
AUTO, HEAT, COOL and DRY Modes 4
Fan Only Mode

### General information and characteristics

## IMPORTANT: Read this manual carefully before using the appliance.

In case of main power supply failure, the autonomous operation of the Room Controller is maintained for up to 2 hours.

- Pay special attention to maintaining a comfortable room temperature above all for children and elderly or handicapped persons.
- For correct use the conditioner must only operate at the temperatures indicated in the "Operating Limits" table included in the Technical manual.
- If the unit is made to operate beyond these limits faults or water leaks may occur.
- Make sure the Room Controller control unit has not been damaged during transport; if so, file an immediate claim with the shipping company.
- Use the appliance only for the purpose it was designed for.
- Dispose of packaging material in accordance with local requirements.
- Do not open the appliance to avoid damage. In case of malfunction, contact a qualified service engineer.





- A = Display readout
- **B** = Increase temperature /change louver setting button
- C = Decrease temperature /change louver setting button
- **D** = Fan selection button **E** = Mode selection button A = Display readout

Fig. 3 – Room Controller



#### Fig. 4 – Display of Selected Functions

Characteristics

- Single unit operation:
  - Ability to control one unit only.
- Grouping:
  - Ability to control 2 to 6 units with one Room Controller.
- Operating modes:
  - Off, Heat, Cool, Dry, Auto, and Fan only.
- Fan speeds:
  - Low, Medium, High, and Auto.
- Louver control:
  - Auto and swing.
- Desired temperature:
  - Range between 17 and 32 °C (63 and 90 °F).
- Room Thermistor Override:
  - Allows to use air sensor located in the Room Controller instead of the one located into the unit.
- Non-volatile memory:
  - Ability to retain user settings configurations during power outages.
- Diagnostics:
  - Detects the fault of air sensor in the Room Controller.
  - "A1" shown on the screen indicates this anomaly.



#### "UP" and "DOWN" Buttons

Buttons for raising or lowering the temperature or for selecting the "AUTO" or "SWING" louver mode.



Button for operation mode selection.

Button for fan or louvre selection.

## **Normal Operation**

### **POWER UP**

All segments of the LCD should be energized for five seconds. The mode, fan, louver, desired temperature and configuration information should be read from the EEPROM. If the EEPROM values are not valid, the following should be used as defaults:



When switched on, the control display appears. Setting Mode Operation



Pressing the "MODE" button will cause the mode to change. The "MODE" button must be released and then pressed again in order to change to the next mode.

The active mode will always be lit in normal operation.

Available modes to select are:

#### Heat/Cool Remote:

() OFF, COOL, ORY, (♣)FAN ONLY, AUTO, HEAT

#### Cooling Only Remote: ① OFF, ② COOL, ∧ DRY, (♣) FAN ONLY

When the "MODE" button is not pressed for 15 seconds, the next press will always switch the mode to OFF.

#### OFF Mode:

ICONS Energized

- OFF Mode
- Room Temperature if configured for Room Thermistor Override, otherwise nothing

Buttons available:

"MODE" button



#### AUTO, HEAT, COOL and DRY Modes:

ICONS Energized:

- Operation Mode ICON.
- Room Temperature if configured for Room Thermistor Override (operated by Room Controller), otherwise user selected temperature with the "SET TEMP" Icon.
- FAN/LOUVER Icon with the user selected Fan and Louver

Buttons available:

All buttons are available



#### A AUTO Automatic operation

**NOTE**: The compressor and electric heater must be off for at least 30 Minutes, this time being necessary to pass from Heating to Cooling, or Cooling to Heating. This will prevent the system from switching between Heating and Cooling continuously.



COOL Cooling operation



**DRY** Drying operation.



HEATHeating operation.

## **Normal Operation**

#### FAN ONLY Mode:

**ICONS Energized:** 

- Room Temperature if configured for Room Thermistor Override (operated by Room Controller), otherwise nothing.
- FAN/LOUVER Icon with the user selected Fan and Louver settings.

Buttons available:

• "MODE" and "FAN" buttons are available.





#### "UP" and "DOWN" Button

(Selecting the desired temperature)



Pressing either the "UP" or "DOWN" buttons will modify the desired temperature.

The maximum desired temperature is  $32^{\circ}C$  (90°F) and the minimum desired temperature is  $17^{\circ}C$  (63°F).

Whenever the setpoint is being displayed, the "SET TEMP" icon is illuminated.

Whenever the display mode is changed from "F" to "C", the setpoint is set to the default start-up values of  $22^{\circ}$ C for "C" mode and  $72^{\circ}$ F for "F" mode.



If the air sensor built in the Room Control is enabled, the display will indicate the room temperature after few seconds.



#### "FAN" Button

(Adjusting the ventilation speed)

MODE FAN

Pressing the "FAN" button will cause the fan speed to change. The "FAN" button must be pressed and then released to reach the desired speed (Low, Medium, High or Auto).

The icon on the display indicates the change has occurred.

Auto mode setting will be displayed by blinking the fan Medium speed and High speed icons in order (Med then Hi then repeat).

( <del>\$</del> })	Low
(( <del>\$</del> -))	Medium
((( <del>\{</del> })))	High
(( <del>+</del> )))	Automatic

Fan speed will automatically switch to the value required for optimum comfort. When this function is activated, the dotted symbols will flash.

#### LOUVER MODE SELECTION





To enter louver mode selection, make sure the Room Controller is on and hold the "FAN" button down for 5 seconds.

After 5 seconds, the selected louver setting will be displayed.

By pressing the up and down buttons the user can modify the louver desired configuration.

The two setting will be displayed in the following way:

"S" with Swing Louver Icon - represents Swing Louver. "A" with Auto Louver Icon - represents Auto Louver.

Press "FAN" button to exit LOUVER Mode Selection.

This mode will exit automatically after 10 seconds if no buttons are pressed.

The only way to change the operation mode, is to go back to this menu.

#### NOTE:

- If units are grouped to one Room Controller, all units will end up having the same louver value.
- Louver Mode selection is not available during OFF mode.



Automatic louver positioning to the best position for the selected operating mode.





Louvres swing continuously.

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