

40WAC,WAF,WAW,WAU Single-Phase VRF (Variable Refrigerant Flow) System Wireless Controller Accessory


Owner's Manual

Part Number 40WA900021

SAFETY CONSIDERATIONS

Read and follow manufacturer instructions carefully.

Understand the signal words — DANGER, WARNING, and CAUTION. DANGER identifies the most serious hazards which will result in severe personal injury or death. WARNING signifies hazards that could result in personal injury or death. CAUTION is used to identify unsafe practices, which would result in minor personal injury or product and property damage.

Recognize safety information. This is the safety-alert symbol () . When this symbol is displayed on the unit and in instructions or manuals, be alert to the potential for personal injury. Installing, starting up, and servicing equipment can be hazardous due to system pressure, electrical components, and equipment location.

GENERAL

The wireless controller accessory is available for use with the single-phase VRF (variable refrigerant flow) indoor units listed in Table 1.

Table 1 — Wireless Controller Accessory Usage

UNIT	SIZES
40WAC Compact Cassette	007,009,012,015
40WAF 4-Way Cassette	009,012,015,018,024,030,048
40WAW High Wall	007,009,012,015,018
40WAU Under Ceiling-Floor	012,015,018,024,030,036,048

Operating ranges of the wireless controller are as follows:

- Rated voltage: 3.0 v (2 AAA alkaline batteries)
- Minimum voltage for signal transmission: 2.4 v
- Effective receiving distance: 26 to 36 ft
- Operating temperature range: 23 to 140 F

OPERATION

Wireless Controller Button Identification —

The following buttons are located on the wireless controller display. See Fig. 1 for button locations.

- MODE SETTING (1) — When pressed, selects running mode in the following sequence:

→ AUTO → COOL → DRY → HEAT → FAN →

- FAN SPEED (2) — When pressed, selects fan speed in the following sequence:

→ AUTO → LOW → MED → HIGH →

- ADJUST DOWN (3) — Decreases the set temperature. When pressed and held, temperature decreases 1° F per 0.5 sec.
- ADJUST UP (4) — Increases the set temperature. When pressed and held, temperature increases 1° F per 0.5 sec.
- ON/OFF (5) — Turns the indoor air unit on or off.
- AIR DIRECTION (6) — Activates the air deflector swing function. Each press turns the deflector 6 degrees. For normal operation and more efficient cooling and heating, the deflector cannot be set to the closed position. When the unit is turned off, the deflector will return to the closed position.
- AIR VERTICAL SWING (7) — Turns air vertical swing function on or off.
- AIR HORIZONTAL SWING (8) — Turns air horizontal swing function on or off.
- CLOCK (9) — Displays the current time (when controller is reset or powered on for the first time, displays 12:00.)
- TIMER ON (10) — Each button press increases the TIMER ON setting by 0.5 hr. When the set time exceeds 10 hrs, each button press increases TIMER ON by 1 hr. Adjusting the setting to 0.0 cancels the TIMER ON setting.
- TIMER OFF (11) — Each button press increases TIMER OFF setting by 0.5 hr. When the set time exceeds 10 hrs, each button press increases TIMER OFF by 1 hr. Adjusting the setting to 0.0 cancels the TIMER OFF setting.
- RESET (12) — Press this button with a 1-mm needle to cancel current settings and reset the controller.
- LOCK (13) — Press this button with a 1-mm needle to lock or unlock current settings. When locked, all buttons are inoperative except the LOCK button.
- OK (14) — Confirm time settings and modifications.
- COOL/HEAT (15) — Press this button with a 1-mm needle to shift modes between COOL only and COOL & HEAT. The factory default mode is COOL & HEAT.

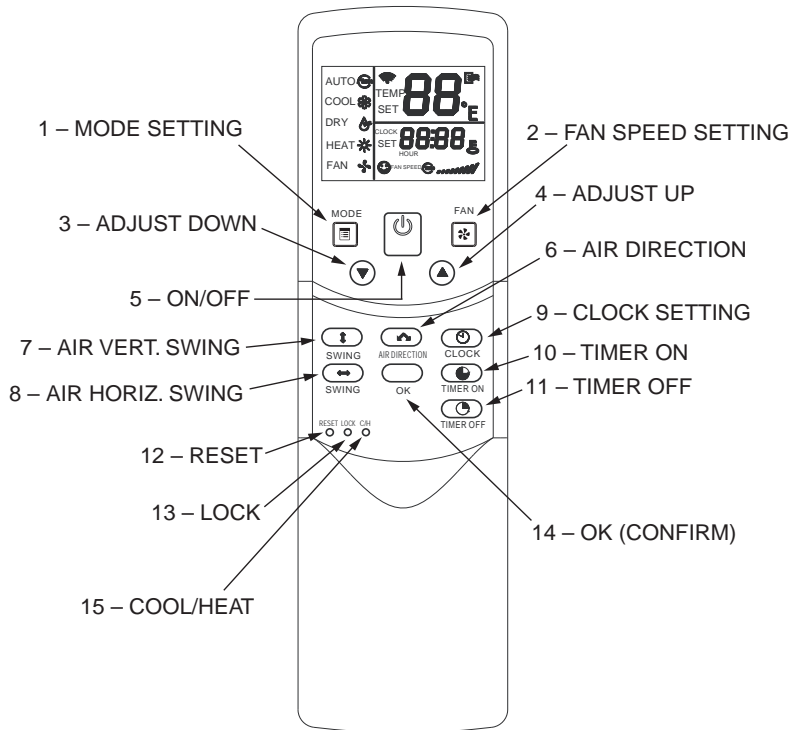


Fig. 1 — Wireless Controller Button Identification

Wireless Controller Indicators — The wireless controller displays the following status indicators. See Fig. 2 for location of indicators.

- Temp (1) — Displays the set temperature. No display in this area if the unit is in FAN mode.
- Transmitting indicator (2) — Icon flashes when the wireless controller sends a signal
- ON/OFF (3) — Displays state of controller
- Running mode (4) — Indicates current running mode when MODE button is pressed
- Time (5) — Displays current time
- Lock (6) — Lights when LOCK button is pressed
- Timer ON/OFF (7) — When timer is ON, the ON icon is lit. When timer is OFF, the OFF icon is lit. If timer ON and OFF are set simultaneously, both icons are lit.
- Fan speed (9) — When FAN SPEED button is pressed, indicates current fan speed.

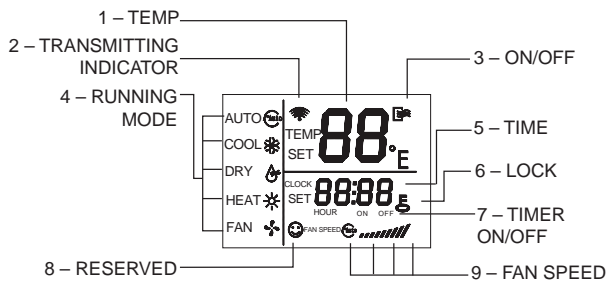


Fig. 2 — Wireless Controller Status Indicators

Installing Batteries — The wireless controller uses 2 AAA alkaline batteries. Slide the cover to install the batteries. Be sure the poles are correctly positioned.

Setting the Clock — To set the current time, press CLOCK for 5 seconds until the hour icon flashes. Use the up and down arrow icons to adjust the hour. Press CLOCK again until the minute icon flashes. Use the up and down arrow icons to adjust the minute, then press OK to confirm settings.

Setting the Unit for AUTO Operation

1. Turn on power to indoor unit. The running mode indicator light on the unit flashes.
2. Using the wireless controller, adjust the temperature with the up and down arrow buttons. The typical range is 62 to 86 F.
3. Press ON/OFF. The running indicator light on the indoor unit is on continuously. The unit will work in AUTO mode. The fan speed is also AUTO (non-adjustable).

Setting COOL/HEAT/FAN (Manual) Operation

1. Press MODE to select COOL, HEAT, or FAN.
2. Adjust the temperature with the up and down arrow buttons. The typical range is 62 to 86 F.

NOTE: In FAN mode the temperature is not adjustable.

3. Press FAN SPEED to select AUTO, LOW, MED, or HIGH.
4. Press ON/OFF. The running indicator light on the indoor unit is on continuously. The unit will work in the selected mode. Press ON/OFF again to stop the operation.

Setting DRY Operation

NOTE: In DRY mode the fan speed is not adjustable.

1. Press MODE to select DRY.
2. Adjust the temperature with the up and down arrow buttons. The typical range is 62 to 86 F.
3. Press ON/OFF. The running indicator light on the indoor unit is on continuously. The unit will work in DRY mode. Press ON/OFF again to stop the operation.

Setting the Timer — The TIMER ON and TIMER OFF functions turn the unit on and off at set times.

NOTE: The time set in the TIMER operation is relative based on the wireless controller's clock. The clock cannot be adjusted while TIMER ON or TIMER OFF is activated.

TIMER ON — This function sets a time to turn the unit on. For example, when the unit is powered off and TIMER ON is set to 5 hours, the unit will start after 5 hours have passed. (If the unit is already on, the TIMER ON setting does not affect it.) To set TIMER ON:

1. Press TIMER ON. The SET, HOUR, and ON icons light.
2. Press TIMER ON again and adjust the time.
3. Keep pressing the TIMER ON button. The time increases in 0.5-hr increments. When the set time exceeds 10 hours, pressing the button increases the time in 1-hr increments.

After 0.5 sec, the controller sends the TIMER ON command to the unit.

TIMER OFF — This function sets a time to turn the unit off. For example, when the unit is powered on and TIMER OFF is set to 5 hours, the unit will shut down after 5 hours have passed. (If the unit is already off, the TIMER OFF setting does not affect it.) To set TIMER OFF:

1. Press TIMER OFF. The SET, HOUR, and OFF icons light.
2. Press TIMER OFF again and adjust the time.
3. Keep pressing the TIMER OFF button. The time increases in 0.5-hr increments. When the set time exceeds 10 hours, pressing the button increases the time in 1-hr increments.

After 0.5 sec, the controller sends the TIMER OFF command to the unit.

SETTING TIMER ON AND TIMER OFF SIMULTANEOUSLY — This function is based on the difference between TIMER ON and TIMER OFF settings. Examples when the unit is powered off:

- TIMER ON is set to 5 hours, TIMER OFF is set to 6 hours: the unit will start after 5 hours have passed, run for an hour, then shut down.
- TIMER ON is set to 5 hours, TIMER OFF is set to 4 hours: the unit will start after 5 hours have passed. The TIMER OFF setting has no effect on the unit.
- TIMER ON is set to 5 hours, TIMER OFF is set to 5 hours: the system adds half an hour to the TIMER OFF time automatically. The unit starts after 5 hours have passed, then shuts down after running for half an hour. (If the times are set to more than 10 hours, the system adds 1 hour to the TIMER OFF time.)

Examples when the unit is powered on:

- TIMER ON is set to 5 hours, TIMER OFF is set to 6 hours: the unit shuts down after 6 hours. The TIMER ON setting has no effect on the unit.

- TIMER ON is set to 5 hours, TIMER OFF is set to 4 hours: the unit shuts down after 4 hours, then starts after an hour has passed.
- TIMER ON is set to 5 hours, TIMER OFF is set to 5 hours: the system adds half an hour to the TIMER OFF time automatically. The unit shuts down after 5.5 hours have passed. The TIMER ON setting has no effect on the unit. (If the times are set to more than 10 hours, the system adds 1 hour to the TIMER OFF time.)

To set timers:

1. Follow Steps 1-3 in the TIMER ON section above.
2. Follow Steps 1-3 in the TIMER OFF section above.

After 0.5 sec, the controller sends the TIMER ON and TIMER OFF commands to the unit.

MODIFYING TIMER OPERATION — Press the appropriate TIMER button and change the time setting. Set the time to 0.00 to cancel the timer operation.

TROUBLESHOOTING

Certain conditions can affect the operation of the wireless controller:

- Curtains, doors, or other obstructions may prevent the wireless controller signal from being received by the indoor unit.
- The wireless controller must not be exposed to wet conditions, direct sunlight, or high temperatures. Damage may result and the accessory will need to be replaced.
- Malfunction may occur if the infrared signal receiver on the indoor unit is exposed to sunlight. Be sure the signal receiver is not exposed to sunlight.
- Remove nearby electronic devices. Electronic signals may affect controller performance.
- The effective transmitting distance of the controller is 26 to 36 ft. Aim the signal sender portion of the controller at the indoor unit receiver.

Replacing the Batteries — Slide the cover and replace used batteries with 2 AAA alkaline batteries, ensuring that the poles are correctly positioned.

- Do not put used batteries or batteries of a different type in the controller.
- Remove the batteries if the controller will not be used for a long period.

Batteries may need to be replaced in these circumstances:

- If pressing the ON/OFF button resets the controller, the batteries are low and should be replaced.
- If no receiving sound is heard from the indoor unit, or the transmitting indicator light (see Fig. 2) on the controller does not flash, replace the batteries.

