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**SAFETY CONSIDERATIONS**

Improper installation, adjustment, alteration, service, maintenance, or use can cause explosion, fire, electrical shock, or other conditions which may cause death, personal injury or property damage. The qualified installer or agency must use factory-authorized kits or accessories when modifying this product.

Follow all safety codes. Wear safety glasses, protective clothing, and work gloves. Use quenching cloth for brazing operations. Have fire extinguisher available. Read these instructions thoroughly and follow all warnings or cautions included in literature and attached to the unit. Consult local building codes and the current editions of the National Electrical Code (NEC) ANSI/NFPA (American National Standards Institute/National Fire Protection Association) 70. In Canada, refer to the current editions of the Canadian Electrical Code CSA (Canadian Standards Association) C22.1.

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.

**WARNING**

Electrical shock can cause personal injury and death. Shut off all power to this equipment during installation. There may be more than one disconnect switch. Tag all disconnect locations to alert others not to restore power until work is completed.

**WARNING**

When installing the equipment in a small space, provide adequate measures to avoid refrigerant concentration exceeding safety limits due to refrigerant leak. In case of refrigerant leak during installation, ventilate the space immediately. Failure to follow this procedure may lead to personal injury.

**WARNING**

DO NOT USE TORCH to remove any component. System contains oil and refrigerant under pressure. To remove a component, wear protective gloves and goggles and proceed as follows:

a. Shut off electrical power to unit.
b. Recover refrigerant to relieve all pressure from system using both high-pressure and low pressure ports.
c. Traces of vapor should be displaced with nitrogen and the work area should be well ventilated. Refrigerant in contact with an open flame produces toxic gases.
d. Cut component connection tubing with tubing cutter and remove component from unit. Use a pan to catch any oil that may come out of the lines and as a gage for how much oil to add to the system.
e. Carefully unsweat remaining tubing stubs when necessary. Oil can ignite when exposed to torch flame. Failure to follow these procedures may result in personal injury or death.
GENERAL

The 40WAC compact ceiling cassette effectively makes each area served an independently controlled temperature zone. Through thermostatic control of operations, conditions can be varied to suit diverse requirements and activities.

The equipment is initially protected under the manufacturer’s standard warranty; however, the warranty is provided under the condition that the steps outlined in this manual for initial inspection, proper installation, regular periodic maintenance, and everyday operation of the unit be followed in detail. This manual should be fully reviewed in advance before initial installation, start-up and any maintenance. Contact your local sales representative or the factory with any questions BEFORE proceeding.

Table 1 lists physical data for each unit size. See Fig. 1 for model number nomenclature. Figure 2 shows unit dimensions.

<table>
<thead>
<tr>
<th>Table 1 — 40WAC Physical Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIT 40WAC</td>
</tr>
<tr>
<td>POWER SUPPLY (V-Ph-Hz)</td>
</tr>
<tr>
<td>208/230-1-60</td>
</tr>
<tr>
<td>COOLING CAPACITY (Btuh)</td>
</tr>
<tr>
<td>HEATING CAPACITY (Btuh)</td>
</tr>
<tr>
<td>INDOOR FAN MOTOR</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Input (W)</td>
</tr>
<tr>
<td>INDOOR COIL</td>
</tr>
<tr>
<td>Number of Rows</td>
</tr>
<tr>
<td>Fin Spacing (fins/in.)</td>
</tr>
<tr>
<td>Fin Type</td>
</tr>
<tr>
<td>Tube Diameter, OD (in.)</td>
</tr>
<tr>
<td>Tube Type</td>
</tr>
<tr>
<td>Number of Circuits</td>
</tr>
<tr>
<td>INDOOR AIRFLOW (cfm)</td>
</tr>
<tr>
<td>Low</td>
</tr>
<tr>
<td>Medium</td>
</tr>
<tr>
<td>High</td>
</tr>
<tr>
<td>INDOOR NOISE LEVEL (dBA)</td>
</tr>
<tr>
<td>Low</td>
</tr>
<tr>
<td>Medium</td>
</tr>
<tr>
<td>High</td>
</tr>
<tr>
<td>UNIT</td>
</tr>
<tr>
<td>Unit Dimensions, W x H x D (in.)</td>
</tr>
<tr>
<td>Packing Dimensions, W x H x D (in.)</td>
</tr>
<tr>
<td>Net/Gross Weight (lb)</td>
</tr>
<tr>
<td>PANEL</td>
</tr>
<tr>
<td>Panel Dimensions, W x H x D (in.)</td>
</tr>
<tr>
<td>Packing Dimensions, W x H x D (in.)</td>
</tr>
<tr>
<td>Net/Gross Weight (lb)</td>
</tr>
<tr>
<td>REFRIGERANT TYPE</td>
</tr>
<tr>
<td>EXPANSION DEVICE</td>
</tr>
<tr>
<td>DESIGN PRESSURE, High/Low (psig)</td>
</tr>
<tr>
<td>REFRIGERANT PIPING (in.)</td>
</tr>
<tr>
<td>Liquid Side, OD</td>
</tr>
<tr>
<td>Suction Side, OD</td>
</tr>
<tr>
<td>CONNECTING WIRING</td>
</tr>
<tr>
<td>Power Wiring</td>
</tr>
<tr>
<td>Signal Wiring</td>
</tr>
<tr>
<td>DRAINAGE WATER PIPE DIAMETER, OD (in.)</td>
</tr>
</tbody>
</table>

LEGEND

EXV — Electronic Expansion Valve
NEC — National Electrical Code
Fig. 1 — Model Number Nomenclature

Equipment Type
40 — Indoor Unit

Product Type
WA — Single-Phase VRF

Model Type
C — Compact Cassette

Voltage (V-Ph-Hz)
3 — 208/230-1-60

Blank

Capacity (Btuh)
007 — 7,000
009 — 9,000
012 — 12,000
015 — 15,000

NOTE: All dimensions shown in inches.

Fig. 2 — 40WAC007-015 Dimensions
INSTALLATION

Step 1 — Unpack and Inspect Units — Units are packaged for shipment to avoid damage during normal transit and handling. It is the receiving party’s responsibility to inspect the equipment upon arrival. Any obvious damage to the carton and/or its contents should be reported on the bill of lading and a claim should be filed with the transportation company and the factory. Unit should always be stored in a dry place, and in the proper orientation as marked on the carton.

After determining the condition of the carton exterior, carefully remove each unit from the carton and inspect for hidden damage. Check to make sure that items such as thermostats, controller etc. are accounted for whether packaged separately or shipped at a later date. Any hidden damage should be recorded, a claim should be filed with the transportation company, and the factory should be notified. In the event a claim for shipping damage is filed, the unit, shipping carton, and all packing must be retained for physical inspection by the transportation company. All units should be stored in the factory shipping carton with internal packaging in place until installation.

PROTECTING UNITS FROM DAMAGE — Do not apply force or pressure to the coil, piping, or drain stub-outs during handling. All units should be handled by the chassis or as close as possible to the unit mounting point locations.

The unit must always be properly supported. Temporary supports used during installation or service must be adequate to hold the unit securely. To maintain warranty, protect units against hostile environments (such as rain, snow or extreme temperature), theft, vandalism, and debris on jobsite. Equipment covered in this manual is not suitable for outdoor installations. Do not allow foreign material to fall into drain pan. Prevent dust and debris from being deposited on motor, fan wheels and coils. Failure to do so may have serious adverse effects on unit operation and in the case of motor and blower assembly, may result in immediate or premature failure. Failure of any unit caused by deposits of foreign material on the motor or blower wheels will not be covered by the manufacturer’s warranty. Some units and/or job conditions may require some form of temporary covering during construction.

PREPARING JOBSITE FOR UNIT INSTALLATION — To save time and to reduce the possibility of costly errors, set up a complete sample installation in a typical room at jobsite. Check all critical dimensions such as pipe, wire, and duct connections requirements. Refer to job drawings and product dimension drawings as required. Instruct all trades in their parts of the installation. Units must be installed in compliance with all applicable local code requirements.

IDENTIFYING AND PREPARING UNITS — Be sure power requirements match available power source. Refer to unit nameplate and wiring diagram. In addition:

- Check all tags on unit to determine if shipping screws are to be removed. Remove screws as directed.
- Rotate the fan wheel by hand to ensure that the fan is unrestricted and can rotate freely. Check for shipping damage and fan obstructions. Adjust blower motor as required.

Step 2 — Position the Unit

Units must not be installed where they may be exposed to potentially explosive or flammable atmosphere. If this instruction is not followed exactly, a fire or explosion may result, causing property damage, injury, or loss of life.

Install the unit in a location that meets the following requirements:

- Allow adequate space for installation, service clearance, piping and electrical connections, and necessary ductwork. For specific unit dimensions, refer to Table 1 and Fig. 2. Allow clearance according to local and national codes.
- Confirm that the ceiling is able to support the weight of the unit. See Table 1 for nominal weight.
- There should be enough room within the false ceiling for installation and maintenance (see Fig. 3).
- The false ceiling should be horizontal and leveled.
- Install the unit in a location within the room that allows uniform air flow in all directions.

Select the unit position with the following points in mind:

- The unit should be installed in a position that is suitable to support the total weight of the unit, refrigerant piping and condensate.
- Proper access should be provided for maintenance for refrigerant piping, EXV (electronic expansion valve), electrical box, and condensate pump. A 2-ft clearance is recommended all around the unit.
- The unit should be at least 40 in. from a wall or similar obstruction. See Fig. 4.
• Recommended distance between 2 units is 10 ft to avoid air recirculation.
• The unit should not be positioned directly above any obstruction.
• The unit must be installed square and level.
• The condensate drain should have sufficient downward slope (1 in. per 100 in.) in any horizontal run between unit and drain. Maximum condensate lift is 23 5/8 inches.

**IMPORTANT:** Be sure that the ceiling grid is supported separately from the unit. The ceiling grid must not be supported by an part of the unit or any associated wiring or piping work.

**Step 3 — Mount the Unit**

**INSTALLING HANGER BOLTS** — Install the hanger bolts at the locations shown in Fig. 5. Use 3/8-in. all-threaded rod. For unit weight, see Table 2.

<table>
<thead>
<tr>
<th>40WAC UNIT</th>
<th>WEIGHT (lb)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>007</td>
<td>42 1/2</td>
</tr>
<tr>
<td>009</td>
<td>45 1/2</td>
</tr>
<tr>
<td>012</td>
<td>45 1/2</td>
</tr>
<tr>
<td>015</td>
<td>45 1/2</td>
</tr>
</tbody>
</table>

*Includes grille weight.

**MOUNTING UNIT** — The unit can now be lifted on to the hanging rods for mounting.
1. Use rods and fasteners to suspend the unit at the factory-provided mounting holes.
2. Adjust the height of the unit until the bottom (without panel) is level with the false ceiling.
3. Secure the unit in position with locknuts and washers on the both sides of the unit bracket. Ensure the threaded rod does not protrude more than 2 in. below the mounting brackets as shown in Fig. 6.

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**INSTALLING PANEL**

**NOTE:** Panel is ordered separately.

1. Remove the grille from the panel by sliding the grille latches toward the center of the panel. Lift the grille up at a 45-degree angle and pull to detach it from the panel. See Fig. 7.
2. Secure the panel (without the grille) onto the unit, using M5 x 16 screws and washers. Before tightening the screws, be sure the panel is flush with the false ceiling. See Fig. 8.

3. When the panel is secure, inset the grille at a 45-degree angle and latch it in place.

**Step 4 — Connect Piping**

**CONDENSATE PIPING** — The unit is supplied with a 1-in. OD drain connection to connect copper or PVC drain piping. When installing condensate piping, follow these recommendations:

- Maximum pump lift is 23 5/8 inches.
- The highest point in the condensate piping should be as close to the unit as possible. See Fig. 9.

**Step 5 — Complete Electrical Connections** — Installation of wiring must conform with local building codes and with National Electric Code ANSI/NFPA 70, current editions. Units must be electrically grounded in conformance with the code. In Canada, wiring must comply with CSA C22.1, Electrical Code.

**REFRIGERANT PIPING**

- Condensate piping should slope downward in the direction of condensate flow, with a minimum gradient of 1 in. per 100 inches.
- When multiple units are connected to a common condensate drain, ensure that the drain is large enough to accommodate the volume of condensate from all units. It is also recommended to have an air vent in the condensate piping to prevent any air locks.
- Condensate piping must not be installed where it may be exposed to freezing temperatures.

**CAUTION**

When connecting from an indoor unit to an outdoor unit, the isolation valve at the outdoor unit should be in the closed position throughout the refrigerant piping process. Failure to follow this procedure may result in equipment damage.

**WARNING**

- Check for maximum height drop and length of refrigerant piping between the indoor and outdoor unit. If the difference is more than 33 ft, consider mounting the outdoor unit above indoor unit.
- Refrigerant piping connection between indoor and outdoor units should be performed once the units are secured at their respective installation locations.
- The refrigeration piping starts at the indoor unit and ends at the outdoor unit.
- The number of bends in the refrigeration piping must be fewer than 15.
- The refrigerant piping should be dry and free of dust and other impurities.
- The bending angle of the refrigerant pipe should not exceed 90 degrees and the bending radius should be as large as possible to prevent any breakage in piping.
- Use proper cutting and flaring tools to avoid leakage.
- Before insulating the suction and liquid refrigeration pipes, perform pressure and leak tests. For details, see the outdoor unit installation manual. Insulating both suction and liquid refrigerant pipes is recommended.
- Vacuuming and charging of the system should be carried out as described in the outdoor unit installation manual.

**WARNING**

- All units must be wired strictly in accordance with the wiring diagram furnished with the unit. Any wiring different from the wiring diagram could result in personal injury and property damage.
Any original factory wiring that requires replacement must be replaced with wiring material having a temperature rating of at least 105°C.

Ensure supply voltage to the unit, as indicated on the serial plate, is not more than 10% over the rated voltage or 10% under the rated voltage.

Failure to follow these recommendations may result in equipment damage.

This equipment in its standard form is designed for an electrical supply of 208/230-1-60. Any damage to or failure of units caused by incorrect wiring or voltage is not covered by warranty.

Electric wiring must be sized to carry the full load amp draw of the motor, starter, and any other controls that are used with the unit. See Table 3 for electrical data.

---

**Table 3 — 40WAC Electrical Data**

<table>
<thead>
<tr>
<th>UNIT</th>
<th>POWER SUPPLY</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MCA</td>
<td>MOPD</td>
</tr>
<tr>
<td>40WAC007</td>
<td>0.3</td>
<td>15</td>
</tr>
<tr>
<td>40WAC009</td>
<td>0.3</td>
<td>15</td>
</tr>
<tr>
<td>40WAC012</td>
<td>0.3</td>
<td>15</td>
</tr>
<tr>
<td>40WAC015</td>
<td>0.3</td>
<td>15</td>
</tr>
</tbody>
</table>

**CAUTION**

After the pipe work is complete, the electrical supply can be connected by routing the cable through the appropriate casing holes or knockouts and connecting the supply and ground cables to the unit’s power terminal.

Be sure the power wiring and control wiring do not cross, as this might cause disturbance on the controls side. See Fig. 10 for wiring diagram.

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![Diagram](image-url)
Step 6 — Position and Connect Controller —
Controllers are ordered separately.

Wired controllers should be installed in a position that maintains good temperature control:

- Position the thermostat approximately 48 in. above floor level.
- Do not position thermostat where it can be directly affected by the unit’s discharge airstream.
- Avoid external walls and drafts from window and doors.
- Avoid positioning near shelves and curtains as these restrict air movement.
- Avoid heat sources such as direct sunlight, heaters, dimmer switches, and other electrical devices.

WIRELESS REMOTE CONTROLLER — Before installation, operate the remote controller to determine the appropriate location for reception range. Avoid direct sunlight exposure or heating sources. Use proper mounting screws and controller bracket to mount the controller on the wall (see Fig 11). For setup instructions, refer to the controller installation manual.

WIRED REMOTE CONTROLLER (PROGRAMMABLE) — To connect a wired remote controller (thermostat) to the indoor unit, use 4-core shielded cable and 4-pin connector from electrical box of indoor unit (see Fig. 12). For setup instructions, refer to the controller installation manual.

WIRELESS REMOTE CONTROLLER (NON-PROGRAMMABLE) — To connect wired remote controller (thermostat) to the indoor unit, use 5-core shielded cable and 5-pin connector from unit display panel (see Fig. 13). For setup instructions, refer to the controller installation manual.

CENTRAL CONTROLLER — The central controller is connected to the indoor unit through outdoor unit with 3-core shielded cable (see Fig. 14). For setup instructions, refer to the controller installation manual.
START-UP

Pre-Start Check — Once installation is complete, make the following pre-start checks:
1. All indoor and outdoor units are properly installed.
2. All piping and insulation is complete.
3. All electrical connections (both power and control) are properly terminated.
4. All condensate drains are installed correctly.
5. The power supply is of the right voltage and frequency.
6. The units are properly grounded in accordance with current electrical codes.
7. Suction and liquid line service valves are in open position.

System Operation Check — Once the installation and pre-start checks are completed, follow these steps:
1. Using remote controller, select cooling or heating mode to check the operation of the system.
2. While the system is in operation, check the following on indoor unit:
   a. Switches or buttons on the remote controller are easy to push.
   b. Indicator light is showing normal operation and no error is indicated.
   c. Swing mode of air louvers is working (if applicable to unit).
   d. Drain pump operation is normal (if applicable).
   e. No abnormal vibration or noise is noticed.
3. While the system is in operation, check the following on outdoor unit:
   a. No abnormal vibration or noise is noticed.
   b. Condenser fan is in operation.
   c. Indicator light is showing normal operation and no error is indicated.

NOTE: If the unit is turned off or restarted, there is a time delay of 3 minutes for the compressor to start from the time the power is restored.

MAINTENANCE

EVERY 3 MONTHS:
- Check the air filter condition. Clean or replace if necessary.

EVERY 6 MONTHS — Follow 3-month maintenance schedule. In addition:
- Clean condensate tray with suitable cleaning agent.
- Clean the grille and panel.

EVERY 12 MONTHS — Follow 6-month maintenance schedule. In addition:
- Be sure all electrical connections are secure.
- Check condensate pump operation.
- Check the heating and cooling action to confirm proper operation.

TROUBLESHOOTING

Figure 15 shows the LED display panel. See Table 4 for a summary of display indicators. Table 5 lists problems, possible causes, and possible solutions.

CAUTION

When servicing or repairing this unit, use only factory-approved service replacement parts. Refer to the rating plate on the unit for complete unit model number, serial number and company address. Any substitution of parts or controls not approved by the factory will be at the owner’s risk and may result in equipment damage.

CAUTION

To avoid equipment damage, do not attempt to reuse any mechanical or electrical controllers that have been wet. Replace defective controller.

MANUAL

Fig. 15 — LED Display Panel
### Table 4 — LED Display Indicators

<table>
<thead>
<tr>
<th>ERROR CODE</th>
<th>LED DISPLAY</th>
<th>MODE/STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>[NO ERROR]</td>
<td>Operation Light ON</td>
<td>Starting</td>
</tr>
<tr>
<td></td>
<td>Operation Light OFF</td>
<td>Shutdown</td>
</tr>
<tr>
<td></td>
<td>Operation Light Flashing Slow*</td>
<td>Standby</td>
</tr>
<tr>
<td>E0</td>
<td>Defrost / Fan Light Flashing Fast†</td>
<td>Heating / Cooling Mode Conflict Error</td>
</tr>
<tr>
<td>E1</td>
<td>Timer Light Flashing Fast</td>
<td>Communication Error Between Indoor and Outdoor Unit</td>
</tr>
<tr>
<td>E2</td>
<td>Operation Light Flashing Fast</td>
<td>Check Indoor Ambient Temperature Sensor (T1)</td>
</tr>
<tr>
<td>E3</td>
<td>Operation Light Flashing Fast</td>
<td>Check Evaporator Temperature Sensor (T2)</td>
</tr>
<tr>
<td>E4</td>
<td>Operation Light Flashing Fast</td>
<td>Check Evaporator Outlet Temperature Sensor (T2B)</td>
</tr>
<tr>
<td>E7</td>
<td>Defrost / Fan Light Flashing Slow</td>
<td>EEPROM Error (Data Storage)</td>
</tr>
<tr>
<td>Ed</td>
<td>Alarm Light Flashing Slow</td>
<td>Outdoor Unit Error</td>
</tr>
<tr>
<td>EE</td>
<td>Alarm Light Flashing Fast</td>
<td>Water Level Error</td>
</tr>
<tr>
<td>FE</td>
<td>Operation and Timer Light Flashing Fast</td>
<td>Indoor Unit Turned ON but does not have an Address</td>
</tr>
<tr>
<td>F0</td>
<td>Wired Remote Controller Only (40WA900023)</td>
<td>Communication Error between Indoor Unit and Wired Remote Controller</td>
</tr>
</tbody>
</table>

*Flashing Slow = Flashing once per second.
†Flashing Fast = Flashing twice per second.

### Table 5 — Troubleshooting

<table>
<thead>
<tr>
<th>ERROR</th>
<th>DISPLAY</th>
<th>POSSIBLE CAUSES</th>
<th>POSSIBLE SOLUTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>E0</td>
<td>Defrost Light Flashing Fast (Heating/Cooling Mode Conflict Error)</td>
<td>System is in cooling or fan only mode and heating signal is received from a unit on the system.</td>
<td>All units should be in cooling mode for system to stay in cooling mode.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>System is in heating mode and cooling signal is received from a unit on the system.</td>
<td>All units should be in heating mode.</td>
</tr>
<tr>
<td>E1</td>
<td>Timer Light Flashing Fast (Communication Error)</td>
<td>Signal wires are short-circuited or disconnected.</td>
<td>Check or reconnect signal wire.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Signal wire order is incorrect.</td>
<td>Correct signal wire order.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Signal wires crossing over high voltage power wires.</td>
<td>Separate and distance the signal wire from high voltage power wires.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Signal wire close to electromagnetic source.</td>
<td>Distance signal wires from electromagnetic source.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Signal wire length exceeds 360 ft.</td>
<td>Reduce the signal wire length.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PC board fault.</td>
<td>Replace PC board.</td>
</tr>
<tr>
<td>E2, E3, E4</td>
<td>Operation Light Flashing Fast (Sensor Error)</td>
<td>Loose connection at port on PC board.</td>
<td>Tighten the connection at port on PC board.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sensor is short-circuited.</td>
<td>Using multi-meter, measure resistance of the sensor. If the resistance is ≤ 100 ohms, change the sensor.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PC board fault.</td>
<td>Replace PC board.</td>
</tr>
<tr>
<td>E7</td>
<td>Defrost Light Flashing Slow (EEPROM Error)</td>
<td>Chip or PC board fault.</td>
<td>Replace PC board.</td>
</tr>
<tr>
<td>Ed</td>
<td>Alarm Light Flashing Slow (Outdoor Unit Error)</td>
<td>Outdoor unit fault.</td>
<td>Refer to outdoor unit troubleshooting guide.</td>
</tr>
<tr>
<td>EE</td>
<td>Alarm Light Flashing Fast (Water Level Error)</td>
<td>Loose connection or disconnected at port on PC board.</td>
<td>Tighten the connection or reconnect at port on PC board.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Water level float is stuck.</td>
<td>Inspect the float.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Trap slope is too steep.</td>
<td>Adjust the trap slope.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Drain pipe is too long.</td>
<td>Adjust the length of drain pipe.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Drain pump faulty.</td>
<td>Replace the drain pump.</td>
</tr>
<tr>
<td>FE</td>
<td>Operation and Timer Light Flashing Fast Together (Address Error)</td>
<td>Indoor unit without address.</td>
<td>Run automatic addressing option at the outdoor unit.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Use remote wireless or wired controller to re-address indoor unit.</td>
<td></td>
</tr>
<tr>
<td>F0</td>
<td>Wired Remote Controller Screen</td>
<td>Incorrect signal wiring between indoor unit and wired remote controller</td>
<td>Correct signal wiring between indoor unit and wired remote controller, as per wiring diagram provided in installation manual.</td>
</tr>
</tbody>
</table>
**Replacement Parts** — Quote the unit model number and unit serial number when ordering replacement parts or contacting the factory about the unit. This information can be found on the serial plate attached to the unit. See Fig. 16.

![Fig. 16 — Unit Serial Plate (Example)](image-url)
APPENDIX A — CONTROL SETTINGS

There are 4 DIP switches on the main board. Figures A-D show the settings for each parameter controlled by a switch. Switches are shown in the default settings.

Fig. A — SW1 Settings

POSITION 1 — START-UP
OFF — Auto Addressing Mode (Default)
ON — Factory Test Mode

Fig. B — SW2 Settings

POSITION 1, 2 — HEATING TEMPERATURE OFFSET
OFF, OFF — Temperature Offset is 1.8 F (Default)
OFF, ON — Temperature Offset is 3.6 F
ON, OFF — Temperature Offset is 7.2 F
ON, ON — Temperature Offset is 10.8 F

Fig. C — SW5 Settings

POSITION 1, 2 — COIL TEMPERATURE, HEATING MODE
OFF, OFF — Coil Temperature < 59 F, No Heat (Default)
OFF, ON — Coil Temperature < 68 F, No Heat
ON, OFF — Coil Temperature < 75.2 F, No Heat
ON, ON — Coil Temperature < 78.8 F, No Heat

Fig. D — SW6 Settings

POSITION 1 — CONTROLS
OFF — Display Board (Default)
ON — Control Interface Module

The manual button is located on the display board. The default display is Fahrenheit. To change from Fahrenheit to Celsius, press the button and hold for 5 seconds.