Read these instructions carefully before installation. Keep this manual in a handy place for future reference. This manual should be left with the equipment owner.

Lire soigneusement ces instructions avant l’installation. Conserver ce manuel à portée de main pour référence ultérieure. Ce manuel doit être donné au propriétaire de l’équipement.

Lea cuidadosamente estas instrucciones antes de instalar. Guarde este manual en un lugar a mano para leer en caso de tener alguna duda. Este manual debe permanecer con el propietario del equipo.

Our continuing commitment to quality products may mean a change in specifications without notice.
1. SAFETY INSTRUCTIONS

Read these “SAFETY INSTRUCTIONS for Installation” carefully before installing an air conditioner or heat pump. After completing the installation, make sure that the unit operates properly during the startup operation.

Instruct the customer on how to operate and maintain the unit. Inform customers that they should store this Installation Manual with the Operation Manual for future reference.

Always use a licensed installer or contractor to install this product. Improper installation can result in water or refrigerant leakage, electrical shock, fire, or explosion.

Meanings of DANGER, WARNING, CAUTION and NOTE Symbols:

⚠️ DANGER...Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
⚠️ WARNING...Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
⚠️ CAUTION...Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.
⚠️ NOTE...Indicates situations that may result in equipment or property-damage accidents only.

- Refrigerant gas is heavier than air and replaces oxygen. A massive leak can lead to oxygen depletion, especially in basements, and an asphyxiation hazard could occur leading to serious injury or death.
- Do not ground units to water pipes, gas pipes, telephone wires, or lightning rods as incomplete grounding can cause a severe shock hazard resulting in severe injury or death. Additionally, grounding to gas pipes could cause a gas leak and potential explosion causing severe injury or death.
- If refrigerant gas leaks during installation, ventilate the area immediately. Refrigerant gas may produce toxic gas if it comes in contact with fire. Exposure to this gas could cause severe injury or death.
- After completing the installation work, check that the refrigerant gas does not leak throughout the system.
- Do not install unit in an area where flammable materials are present due to risk of explosions that can cause serious injury or death.
- Safely dispose all packing and transportation materials in accordance with federal/state/local laws or ordinances. Packing materials such as nails and other metal or wood parts, including plastic packing materials used for transportation may cause injuries or death by suffocation.
WARNING

- All phases of the field-installation, including, but not limited to, electrical, piping, safety, etc. must be in accordance with manufacturer’s instructions and must comply with national, state, provincial and local codes.
- Only qualified personnel must carry out the installation work. Installation must be done in accordance with this installation manual. Improper installation may result in water leakage, electric shock, or fire.
- When installing the unit in a small room, take measures to keep the refrigerant concentration from exceeding allowable safety limits. Excessive refrigerant leaks, in the event of an accident in a closed ambient space, can lead to oxygen deficiency.
- Use only specified accessories and parts for installation work. Failure to use specified parts may result in water leakage, electric shocks, fire, or the unit falling.
- Install the air conditioner or heat pump on a foundation strong enough that it can withstand the weight of the unit. A foundation of insufficient strength may result in the unit falling and causing injuries.
- Take into account strong winds, typhoons, or earthquakes when installing. Improper installation may result in the unit falling and causing accidents.
- Make sure that a separate power supply circuit is provided for this unit and that all electrical work is carried out by qualified personnel according to local, state, and national regulations. An insufficient power supply capacity or improper electrical construction may lead to electric shocks or fire.
- Make sure that all wiring is secured, that specified wires are used, and that no external forces act on the terminal connections or wires. Improper connections or installation may result in fire.
- When wiring, position the wires so that the access panel can be securely fastened. Improper positioning of the access panel may result in electric shocks, fire, or the terminals overheating.
- Before touching electrical parts, turn off the unit.
- This equipment can be installed with a Ground-Fault Circuit Breaker (GFCI). Although this is a recognized measure for additional protection, with the grounding system in North America, a dedicated GFCI is not required.
- Securely fasten the outside unit terminal cover (panel).
- If the terminal cover/panel is not installed properly, dust or water may enter the outside unit causing fire or electric shock.
- When installing or relocating the system, keep the refrigerant circuit free from substances other than the specified refrigerant (R-410A) such as air. Any presence of air or other foreign substance in the refrigerant circuit can cause an abnormal pressure rise or rupture, resulting in injury.
- Do not change the setting of the protection devices. If the pressure switch, thermal switch, or other protection device is shorted and operated forcibly, or parts other than those specified by Daikin are used, fire or explosion may occur.

CAUTION

- Do not touch the switch with wet fingers. Touching switch with wet fingers can cause electric shock.
- Do not allow children to play on or around the unit to prevent injury.
- Do not touch the refrigerant pipes during and immediately after operation as the refrigerant pipes may be hot or cold, depending on the condition of the refrigerant flowing through the refrigerant piping, compressor, and other refrigerant cycle parts. Your hands may suffer burns or frostbite if you touch the refrigerant pipes. To avoid injury, give the pipes time to return to normal temperature or, if you must touch them, be sure to wear proper gloves.
- Install drain piping to proper drainage. Improper drain piping may result in water leakage and property damage.
- Insulate piping to prevent condensation.
- Be careful when transporting the product.
- Do not use a charging cylinder. Using a charging cylinder may cause the refrigerant to deteriorate.
- Refrigerant R-410A in the system must be kept clean, dry, and tight.
  A. Clean and Dry — Foreign materials (including mineral oils such as SUNISO oil or moisture) should be prevented from getting into the system.
  B. Tight — R-410A does not contain any chlorine, does not destroy the ozone layer, and does not reduce the earth’s protection against harmful ultraviolet radiation. R-410A can contribute to the greenhouse effect if it is released. Therefore take proper measures to check for the tightness of the refrigerant piping installation. Read the chapter Refrigerant Piping and follow the procedures.
- Since R-410A is a blend, the required additional refrigerant must be charged in its liquid state. If the refrigerant is charged in a state of gas, its composition can change and the system will not work properly.
- The indoor unit is for R-410A. See the catalog for indoor models that can be connected. Normal operation is not possible when connected to other units.
- Remote controller (wireless kit) transmitting distance can be shorter than expected in rooms with electronic fluorescent lamps (inverter or rapid start types). Install the indoor unit far away from fluorescent lamps as much as possible.
- Indoor units are for indoor installation only. Outdoor units can be installed either outdoors or indoors. This unit is for indoor use.
- Do not install the air conditioner or heat pump in the following locations:
  A. Where a mineral oil mist or oil spray or vapor is produced, for example, in a kitchen. Plastic parts may deteriorate and fall off or result in water leakage.
  B. Where corrosive gas, such as sulfuric acid gas, is produced. Corroding copper pipes or soldered parts may result in refrigerant leakage.
  C. Near machinery emitting electromagnetic waves. Electromagnetic waves may disturb the operation of the control system and cause the unit to malfunction.
  D. Where flammable gas may leak, where there is carbon fiber, or ignitable dust suspension in the air, or where volatile flammables such as thinner or gasoline are handled. Operating the unit in such conditions can cause a fire.
- Take adequate measures to prevent the outside unit from being used as a shelter by small animals. Small animals making contact with electrical parts can cause malfunctions, smoke, or fire. Instruct the customer to keep the area around the unit clean.
For the installation of an outdoor unit, refer to the installation manual attached to the outdoor unit.

2.1 *Precautions*
- Be sure to instruct customers how to properly operate the unit (operating different functions, and adjusting the temperature) by having them carry out operations themselves while looking at the operation manual.
- Do not install in locations where the air contains high levels of salt such as that near the ocean and where voltage fluctuates greatly such as that in factories, or in vehicles or vessels.

2.2 *Optional Accessories*
This indoor unit requires one of the operation remote controls listed below.

<table>
<thead>
<tr>
<th>Remote Controller</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Wired Type</td>
<td>BRC1E73, BRC2A71</td>
</tr>
<tr>
<td>Wireless Type</td>
<td>BRC4C82</td>
</tr>
</tbody>
</table>

FOR THE FOLLOWING ITEMS, TAKE SPECIAL CARE DURING CONSTRUCTION AND CHECK AFTER INSTALLATION IS FINISHED.

<table>
<thead>
<tr>
<th>Items to be checked</th>
<th>If not properly done, what is likely to occur</th>
<th>Check</th>
</tr>
</thead>
<tbody>
<tr>
<td>Are the indoor and outdoor units fixed firmly?</td>
<td>If units may drop, vibrate or make noise</td>
<td></td>
</tr>
<tr>
<td>Is the refrigerant leak test finished?</td>
<td>It may result in insufficient cooling</td>
<td></td>
</tr>
<tr>
<td>Is the unit fully insulated?</td>
<td>Condensate may drip</td>
<td></td>
</tr>
<tr>
<td>Does the drainage flow smoothly?</td>
<td>Condensate may drip</td>
<td></td>
</tr>
<tr>
<td>Does the power supply voltage correspond to that shown on the name plate?</td>
<td>The unit may malfunction or the components burn out</td>
<td></td>
</tr>
<tr>
<td>Are the wiring and piping correct?</td>
<td>The unit may malfunction or the components burn out</td>
<td></td>
</tr>
<tr>
<td>Is the unit safely grounded?</td>
<td>Incomplete grounding may result in electric shocks</td>
<td></td>
</tr>
<tr>
<td>Is wiring size according to specifications?</td>
<td>The unit may malfunction or the components burn out</td>
<td></td>
</tr>
<tr>
<td>Is something blocking the air outlet or inlet of either the indoor or outdoor units?</td>
<td>It may result in insufficient cooling</td>
<td></td>
</tr>
<tr>
<td>Are the refrigerant piping length and additional refrigerant charge noted down?</td>
<td>The refrigerant charge in the system is not clear</td>
<td></td>
</tr>
</tbody>
</table>

Also review the SAFETY CONSIDERATIONS.

2. BEFORE INSTALLATION

---

**NOTE**

- Install the power supply and control wires for the indoor and outdoor units at least 3.5 feet away from televisions or radios to prevent image interference or noise. Depending on the radio waves, a distance of 3.5 feet may not be sufficient to eliminate the noise.
- Do not use the following tools that are used with conventional refrigerants: gauge manifold, charge hose, gas leak detector, reverse flow check valve, refrigerant charge base, vacuum gauge, or refrigerant recovery equipment.
- If the conventional refrigerant and refrigeration oil are mixed in R-410A, the refrigerant may deteriorate.
- This air conditioner or heat pump is an appliance that should not be accessible to the general public.
- As design pressure is 450 psi, the wall thickness of field-installed pipes should be selected in accordance with the relevant local, state, and national regulations.

---

**NOTE**

- Be sure to read this manual before installing the indoor unit.
- Be sure to mount an air filter (part to be procured in the field) in the suction air passage in order to prevent water leaking, etc.

---

The accessories needed for installation must be retained in your custody until the installation work is completed. Do not discard them.

1. Decide upon a line of transport.
2. Leave the unit inside its packaging while moving, until reaching the installation site. Where unpacking is unavoidable, use a sling of soft material or protective plates together with a rope when lifting, to avoid damage or scratches to the unit.

Be sure to check the type of R-410A refrigerant to be used before installing the unit.

(Using an incorrect refrigerant will prevent normal operation of the unit.)
Items to be checked AT TIME OF DELIVERY

<table>
<thead>
<tr>
<th>Items to be checked</th>
<th>Check</th>
</tr>
</thead>
<tbody>
<tr>
<td>Did you hand the operation manual and warranty over to your customer?</td>
<td></td>
</tr>
<tr>
<td>Did you explain about operations while showing the operation manual to your customer?</td>
<td></td>
</tr>
<tr>
<td>Did you explain to your customer how to maintain and clean local procurements such as the air filter, suction grille, and air outlet grille?</td>
<td></td>
</tr>
<tr>
<td>Did you hand manuals of local procurements (in case equipped) over to your customer?</td>
<td></td>
</tr>
</tbody>
</table>

3. SELECTING INSTALLATION SITE

**CAUTION**

- **IN CASES WHERE THE UNIT IS INSTALLED IN A SPACE WHERE THE HUMIDITY MIGHT EXCEED 86°F AND RH80%, REINFORCE THE INSULATION ON THE UNIT BODY.**

**USE GLASS WOOL OR POLYETHYLENE FOAM AS INSULATION SO THAT THE THICKNESS IS MORE THAN 2” AND FITS INSIDE THE INSTALLATION SPACE OPENING.**

1. Select an installation site where the following conditions are fulfilled and meets with your customer’s approval.
   - Where optimum air distribution can be ensured.
   - Where nothing blocks air passage.
   - Where condensate can be properly drained.
   - Where the supports are strong enough to bear the indoor unit weight.
   - Where the false ceiling is not noticeably on an incline.
   - Where piping between indoor and outdoor units is possible within the allowable limit. (Refer to the installation manual for the outdoor unit.)
   - If a return-air duct is not installed, carefully select the place and method of product installation so that air flow into the product will not be blocked.
   - The unit clearance from a combustible surface may be 0”. However, service clearance must take precedence. A minimum of 24” in front of the unit for service clearance is required. Additional clearance on one side or top will be required for electrical wiring connections. Consult all appropriate regulatory codes prior to determining final clearances. When installing this unit in an area that may become wet (such as crawl spaces), elevate the unit with a sturdy, non-porous material. In installations that may lead to physical damage (i.e. a garage) it is advised to install a protective barrier to prevent such damage. Always install units such that a positive slope in condensate line (1/4” per foot) is allowed.

If installed horizontally above a finished living space a secondary drain pan, as required by many building codes, must be installed under the entire unit and its condensate drain line must be routed to a location such that the user will see the condensate discharge.

4. INSTALLATION LOCATION

**NOTE: THESE AIR HANDLERS ARE DESIGNED FOR INDOOR INSTALLATION ONLY.**

Applications where the air handler is installed and the return air environment see humidity levels above 65% relative humidity coupled with total external static levels above 0.5”; it is recommended to reinforce the insulation on the unit body.

The FXTQ**T product line may be installed in one of the upflow, downflow, horizontal left or horizontal right orientations as shown in Figures 3, 4, 5 and 6. The unit may be installed in upflow or horizontal left orientation as shipped (refer to specific sections for more information). Minor field modifications are necessary to convert to downflow or horizontal right as indicated in below sections.

**NOTE: CONDENSATION MAY FORM ON THE PRODUCT DURING COOL OPERATION. IT IS RECOMMENDED TO INSTALL SECONDARY DRAIN PAN (FIELD SUPPLIED).**

4.1 UPFLOW INSTALLATION

No field modifications are mandatory however to obtain maximum efficiency, the horizontal drip shield, side drain pan and drain pan extension, can be removed.

**Side Drain Pan and Extension Removal:** Refer to Figure 1; remove the two (2) screws that secure the drip shield support brackets to the horizontal drip shield (front and back). Unsnap the side drain pan from the bottom drain pan using a screw driver or any small lever. The side drain pan, drip shield brackets and the drain pan extension may now be removed. From Figure 1, drain port labeled (A) is the primary drain for this application and condensate drain line must be attached to this drain port. Drain port (a) is for the secondary drain line (if used).

4.2 HORIZONTAL LEFT INSTALLATION

No field modifications are permissible for this application.

**Refer to Figure 7 and 8 for the location of the components referenced in the following steps.**

Drain port labeled (B) in Figure 1 is the primary drain for this application and condensate drain line must be attached to this drain port. Drain port (b) is for the secondary drain line (if used).
4.3 Downflow/Horizontal Right Installation

IMPORTANT NOTE: In the downflow application, to prevent coil pan “sweating”, a downflow kit (DFK) is available through your local Daikin distributor. The DFK is not supplied with the air handler and is required to minimize pan sweating on all downflow installations. See Table 1 for the correct DFK and follow the instructions provided for installation.

<table>
<thead>
<tr>
<th>DFK-B Downflow Kit</th>
<th>DFK-C Downflow Kit</th>
<th>DFK-D Downflow Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>FXTQ09TAVJUA</td>
<td>FXTQ42TAVJUA</td>
<td>FXTQ54TAVJUA</td>
</tr>
<tr>
<td>FXTQ09TAVJUD</td>
<td>FXTQ42TAVJUD</td>
<td>FXTQ54TAVJUD</td>
</tr>
<tr>
<td>FXTQ12TAVJUA</td>
<td>FXTQ48TAVJUA</td>
<td>FXTQ60TAVJUA</td>
</tr>
<tr>
<td>FXTQ12TAVJUD</td>
<td>FXTQ48TAVJUD</td>
<td>FXTQ60TAVJUD</td>
</tr>
<tr>
<td>FXTQ18TAVJUA</td>
<td>FXTQ18TAVJUD</td>
<td></td>
</tr>
<tr>
<td>FXTQ18TAVJUD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FXTQ24TAVJUA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FXTQ24TAVJUD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FXTQ30TAVJUA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FXTQ30TAVJUD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FXTQ36TAVJUA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FXTQ36TAVJUD</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Before flipping the air handler, remove blower access panel and coil access panel. The coil access panel and tubing panel may remain screwed together during this procedure. Remove and retain the seven (7) screws securing the coil access panel to the cabinet and the six (6) screws securing the blower access panel to the cabinet.

2. Before removing the coil remove the wire ties holding the sensor wire harness to the center support. Remove the insulation covering the wire connectors and disconnect the wires. Do not cut or damage the insulation covering the junction connectors since it will be required to secure the wires once the change is complete. See Figures 2-1 and 2-2 for wire tie location.

Wire Tie Location To Be Removed

Figure 2-1
3. Slide the coil assembly out using the bottom drain pan to pull the assembly from the cabinet.
4. For flipping the coil, drain pan extension must be removed for all models. Center support should not be removed while removing the drain pan extension. Side drain pan and horizontal drip shield can be removed for downflow application. The side drain pan and horizontal drip shield cannot be removed for horizontal right.
5. Using the bottom drain pan to hold the coil assembly, slide the coil assembly back into the cabinet on the downflow brackets as shown in Figure 9.
6. Reconnect the sensor wires and replace the insulation securing it with wire ties on both sides as shown in Figure 2-2. Then, secure the wire harness to the corner post using the screw mount wire ties provided.

7. Re-install the access panels removed in Step 1.
8. Two drain ports located at the bottom drain pan (horizontally oriented) are to be used for upflow and downflow applications and the two on the side drain pan (vertically oriented) are to be used when the unit is in horizontal right or left configuration. When the unit is in upflow or downflow configuration, the drain ports located on bottom drain pan must be plugged and vice versa. Drain ports located at lower elevation (closer to the ground) in either configuration must be connected to the main drain line and the higher is for the secondary drain line.

**Wire Tie Location To Be Secured**

*Figure 2-2*
NOTE: If removing only the coil access panel from the unit, the filter cover must be removed first. Failure to do so may result in panel damage.
5. REFRIGERANT PIPING WORK

Observe the requirements listed below for refrigerant tubing sizes.

Refer to Figure 7 and 8 for the location of the components referenced in the following steps.

Drain port labeled (B) in Figure 1 is the primary drain for this application and condensate drain line must be attached to this drain port. Drain port (b) is for the secondary drain line (if used). In applications where the air handler is installed in the horizontal left position, and the return air environment see humidity levels above 65% relative humidity coupled with total external static levels above 0.5” e.s.p., installation may require a field fabricated or field supplied secondary drain pan under the coil cabinet enclosure.

<table>
<thead>
<tr>
<th>Model</th>
<th>Tubing Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Liquid</td>
</tr>
<tr>
<td>FXTQ09/12/18</td>
<td>1/4&quot;</td>
</tr>
<tr>
<td>FXTQ24/36/42/48/54/60</td>
<td>3/8&quot;</td>
</tr>
</tbody>
</table>

Execute heat insulation work completely on both sides of the gas piping and the liquid piping or else a water leakage might result.

Failing to insulate the pipes may cause leaking or burns. Be sure to use the insulation which can withstand such temperatures of 250°F (120°C) or more. Reinforce the insulation on the refrigerant piping according to the installation environment. If the temperature or humidity in the product installation location might reach 86°F or 80%, respectively. Condensation may form on the surface of the insulation.

**CAUTION**

1. Cut off the spin closure.  
   - The outdoor unit is charged with refrigerant.  
   - This coil contains gas under 150 P.S.I.G.

Release pressure from the gas piping pressure-release device before initiating piping work.

Execute heat insulation work completely on both sides of the gas piping and the liquid piping or else a water leakage might result.
2. Connect the piping.
   • Remove the upper and lower front panels.
   • Slide the front panel (lower) along the field piping until it is far enough away that it will not be affected by heat from the brazing, as shown in Figure 12.
   • Braze up to the field piping fitting port while cooling the sensor and the thermal insulation.
   • Close the upper and lower front panels once heat from the brazed areas has dissipated.

**NOTE**

- **WHEN BRAZING THE FIELD PIPING, COVER THE PIPE INSULATION AND THE THERMAL SENSOR INSIDE THE INSULATION WITH A DAMP CLOTH TO PREVENT ANY DAMAGE TO THE SENSOR OR THE INSULATION.**

**OTHERWISE, THE SENSOR MAY BE DAMAGED BY HEAT OF BRAZING, WHICH LEADS TO A FAILURE OF NORMAL OPERATION.**

3. After the work is finished, make sure to check that there is no gas leak.
4. After checking for gas leaks, be sure to insulate the piping connections referring to Figure 13.

**CAUTION**

- **BE SURE TO INSULATE ANY FIELD PIPING ALL THE WAY TO THE PIPING CONNECTION INSIDE THE UNIT. ANY EXPOSED PIPING MAY CAUSE CONDENSATION OR BURNS IF TOUCHED.**
- **WHEN BRAZING THE REFRIGERANT PIPING, PERFORM NITROGEN REPLACEMENT FIRST OR PERFORM THE BRAZING WHILE FEEDING NITROGEN INTO THE REFRIGERANT PIPING. (REFER TO FIGURE 14.)**

---

**Figure 12**

**Figure 13**

**Figure 14**

---

**CAUTION**

- **WHEN BRAZING PIPES WHILE FEEDING NITROGEN INSIDE THE PIPING, MAKE SURE TO SET THE NITROGEN PRESSURE TO 2.9 PSI OR LESS USING THE PRESSURE REDUCING VALVE. (THIS PRESSURE IS SUCH THAT A BREEZE IS BLOWN TO YOUR CHEEK.)**
- **WHEN BRAZING THE REFRIGERANT PIPING, PERFORM NITROGEN REPLACEMENT FIRST OR PERFORM THE BRAZING WHILE FEEDING NITROGEN INTO THE REFRIGERANT PIPING. (REFER TO FIGURE 14.)**

---

**CAUTION**

- **WHEN FOLLOWING THE VRV AIR TIGHT TEST PROCEDURE DURING INSTALLATION (REFER TO THE OUTDOOR UNIT INSTALLATION MANUAL FOR DETAILS), ONLY PRESSURIZE TO 450 PSIG (3.1MPA) WHEN USING FXTQ.**

---

**DANGER**

- **USE OF OXYGEN COULD RESULT IN AN EXPLOSION RESULTING IN SERIOUS INJURY OR DEATH. ONLY USE DRY NITROGEN GAS.**
- **REFRIGERANT GAS MAY PRODUCE TOXIC GAS IF IT COMES IN CONTACT WITH FIRE SUCH AS FROM A HEATER, STOVE OR COOKING DEVICE.**
- **EXPOSURE TO THIS GAS COULD CAUSE SEVERE INJURY OR DEATH.**
NOTE

• **Do not use flux when brazing refrigerant piping. Therefore, use the phosphor copper brazing filler metal (BCuP) which does not require flux.**

  **Flux has an extremely negative effect on refrigerant piping systems. For instance, if chlorine based flux is used, it will cause piping corrosion. Flux containing fluorine will damage refrigerant oil.**

6. **DRAIN PIPING WORK**

The coil drain pan has a primary and a secondary drain with 3/4” NPT female connections. The connectors required are 3/4” NPT male, either PVC or metal pipe, and should be hand tightened to a torque of no more than 37 in-lbs. to prevent damage to the drain pan connection. An insertion depth of approximately 3/8” to 1/2” (3-5 turns) should be expected at this torque.

1. Ensure drain pan hole is not obstructed.
2. To prevent potential sweating and dripping on to finished space, it may be necessary to insulate the condensate drain line located inside the building. Use Armaflex® or similar material.

A secondary condensate drain connection has been provided for areas where the building codes require it. Pitch all drain lines a minimum of 1/4” per foot to provide free drainage, or as required by local code. Provide required support to the drain line to prevent bowing. If the secondary drain line is required, run the line separately from the primary drain and end it where condensate discharge can be easily seen.

**NOTE**

• **Water coming from secondary line means the coil primary drain is plugged and needs immediate attention.**

• **Insulate drain lines located inside the building or above a finished living space to prevent sweating. Install a condensate trap to ensure proper drainage.**

• **Some installation may require a field fabricated or field supplied secondary drain pan under the coil cabinet enclosure. The installation must include a “P” style trap that is located as close as is practical to the evaporator coil. See Figure 15 for details of a typical condensate line “P” trap.**

• **Trapped lines are required by many local codes. In the absence of any prevailing local codes, please refer to the requirements listed in the Uniform Mechanical Building Code. A drain trap in a draw-through application prevents air from being drawn back through the drain line during fan operation thus preventing condensate from draining, and if connected to a sewer line to prevent sewer gases from being drawn into the airstream during blower operation.**

---

**Figure 15**

Observe the following guidelines when installing concentrated drain piping. Select the thickness of the concentrated drain piping to reflect the capacity of the machine to which it will be connected. (Install a drain trap for each indoor unit.) See Figure 16.
CAUTION

• IF SECONDARY DRAIN IS NOT INSTALLED, THE SECONDARY ACCESS MUST BE PLUGGED.

Condensate drain traps with an open vertical Tee between the air handler and the condensate drain trap can improve condensate drainage in some applications, but may cause excessive air discharge out of the open Tee. Daikin does not prohibit this type of drain but we also do not recommend it due to the resulting air leakage. Regardless of the condensate drain design used, it is the installer’s responsibility to ensure the condensate drain system is of sufficient design to ensure proper condensate removal from the coil drain pan. Use of a condensate removal pump is permitted when necessary. This condensate pump should have provisions for shutting off the control voltage should a blocked drain occur. See Auxiliary Alarm Switch section for more details. A trap must be installed between the unit and the condensate pump.

DRAIN PIPING CONNECTION

Do not connect drain piping directly to sewage pipes where ammonia odor may be present. Ammonia in the sewage pipes may enter the indoor unit body through the drain piping and corrode the heat exchanger.

IMPORTANT NOTE: The evaporator coil is fabricated with oils that may dissolve styrofoam and certain types of plastics. Therefore, a removal pump or float switch must not contain any of these materials.

7. DUCT WORK

This air handler is designed for a complete supply and return ductwork system. To ensure correct system performance, the ductwork is to be sized to accommodate 350-450 CFM per ton of cooling with the static pressure not to exceed 0.9” in w.c. Refer to ACCA Manual D, Manual S and Manual RS for information on duct sizing and application. Flame retardant ductwork is to be used and sealed to the unit in a manner that will prevent leakage.

NOTE

• A DOWNFLOW APPLICATION WITH ELECTRIC HEAT MUST HAVE AN L-SHAPED SHEET METAL SUPPLY DUCT WITHOUT ANY OUTLETS OR REGISTERS LOCATED DIRECTLY BELOW THE HEATER.

7.1 RETURN DUCTWORK

Do not locate the return ductwork in an area that can introduce toxic or objectionable fumes/odors into the ductwork. The return ductwork is to be connected to the air handler bottom (upflow configuration).

8. ELECTRICAL WIRING WORK

IMPORTANT: ALL ROUTING OF ELECTRICAL WIRING MUST BE MADE THROUGH PROVIDED ELECTRICAL KNOCKOUTS. WHEN REMOVING THE ELECTRICAL KNOCKOUTS, TAKE CARE NOT TO DAMAGE THE PCB. DO NOT CUT, PUNCTURE OR ALTER THE CABINET FOR ELECTRICAL WIRING.

8.1 GENERAL INSTRUCTIONS

• Shut off the power before doing any work.
• All field supplied parts and materials, electric works must conform to local codes.
• Use copper wire only.
• See also the “Wiring Diagram Label” located inside the unit’s fan housing.
• For details on hooking up the remote controller, refer to the “Remote Controller Installation Manual”.
• All wiring must be performed by an authorized electrician.
• This system consists of multiple indoor units. Mark each indoor unit as unit A, unit B . . . , and be sure the terminal board wiring to the outdoor unit and Branch Selector unit are properly matched. If wiring and piping between the outdoor unit and an indoor unit are mismatched, the system may cause a malfunction.
• Install a wiring interrupter or ground-fault circuit interrupter for the power wiring.
• To avoid short circuiting the power supply wire, be sure to use insulated terminals.
• Do not turn on the power supply (wiring interrupter or ground-fault circuit interrupter) until all other work is done.

DANGER

• DO NOT GROUND UNITS TO WATER PIPING, TELEPHONE WIRES OR LIGHTNING RODS BECAUSE INCOMPLETE GROUNDING COULD CAUSE A SEVERE SHOCK HAZARD RESULTING IN SEVERE INJURY OR DEATH, NOT TO GAS PIPING BECAUSE A GAS LEAK COULD RESULT IN AN EXPLOSION WHICH COULD LEAD TO SEVERE INJURY OR DEATH.
8.2 Wire Sizing

Wire size is important to the operation of your equipment. Use the following check list when selecting the appropriate wire size for your unit.

- Wire used must be sized to carry the Minimum Circuit Ampacity (MCA) listed on the equipment’s Rating Plate.
- Refer to the NEC (USA) or CSA (Canada) for wire sizing. The unit MCA for the air handler and the optional electric heat kit can be found on the unit Series and Rating Plate.
- Wire must be sized to allow no more than a 2% voltage drop from the building breaker/fuse panel to the unit.
- Wires with different insulation temperature rating have varying ampacities - be sure to check the temperature rating used.

8.4 Electrical Connections

IMPORTANT NOTE: USE COPPER CONDUCTORS ONLY.

Knockouts are provided on the air handler top panel and sides of the cabinet to allow for the entry of the supply voltage conductors, as shown in Figure 17. If the knockouts on the cabinet sides are used for electrical conduit, an adapter ring must be used in order to meet UL1995 safety requirements. An NEC or CEC approved strain relief is to be used at this entry point. Some codes/municipalities require the supply wire to be enclosed in conduit. Consult your local codes.

---

**CAUTION**

- **Outside the air conditioner, do not route the remote controller wiring and transmission wiring together with other electrical wiring. Keep the remote controller wiring and transmission wiring at least 2 in. (50mm) away from the power wiring and other electrical wiring. Effects of electrical interference (external noise) may result in malfunction and breakdown.**

If the power supply voltage is 208V, change the transformer wire connection from the 240V terminal to the 208V terminal on both transformers.

---

8.3 Safety Device

Every installation must include an NEC (USA) or CEC (Canada) approved overcurrent protection device. Also, check with local or state codes for any special regional requirements.

Protection can be in the form of fusing or HACR style circuit breakers. The Series and Rating Plate provides the maximum overcurrent device permissible.

When using residual current operated circuit breakers, be sure to use a high-speed type (0.1 second or less) 30mA rated residual operating current.

**NOTE:** FUSES OR CIRCUIT BREAKERS ARE TO BE Sized LARGER THAN THE EQUIPMENT MCA BUT NOT TO EXCEED THE MOP.

---

**LENGTH OF THE TRANSMISSION WIRING AND REMOTE CONTROLLER WIRING**

<table>
<thead>
<tr>
<th>Outdoor Unit To Be Connected</th>
<th>VRV-S Series</th>
<th>VRV Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outdoor Unit/Indoor Unit</td>
<td>Maximum 984 ft. (300m) Total Wiring Length: 1968 ft. (600m)</td>
<td>Maximum 3280 ft. (1000m) Total Wiring Length: 6560 ft. (2000m)</td>
</tr>
<tr>
<td>Indoor Unit - Remote Controller</td>
<td>Maximum 984 ft. (300m)</td>
<td>Maximum 1640 ft. (500m)</td>
</tr>
</tbody>
</table>

---

8.4.1 Air Handler Only (Non-Heat Kit Models)

The power supply connects to the stripped black and red wires contained in the air handler electrical compartment. Attach the supply wires to the air handler conductors as shown in the unit wiring diagram using appropriately sized solderless connectors or other NEC or CEC approved means. A ground lug is also provided in the electrical compartment. The ground wire from the power supply must be connected to this ground lug.
NOTE: AIR HANDLER WITH DISCONNECT SWITCH -
Attach the supply wires to the disconnect switch terminals as shown in the unit wiring diagram using appropriately sized solderless connectors or other NEC or CEC approved means. A ground lug is also provided on the disconnect switch mount bracket (Figure 18) in the electrical compartment. The ground wire from the power supply must be connected to this ground lug.

8.4.2 Air Handler / Non-Circuit Breaker Heat Kits
A terminal block is provided with the HKS kit to attach the power supply and air handler connections. Follow the HKS Installation Manual and wiring diagram for complete wiring details.

NOTE: AIR HANDLER WITH DISCONNECT SWITCH -
Do not use disconnect switch assembly inside the unit while installing Heat kit. Refer Figure 18 to know how to remove disconnect switch assembly from unit.

NOTE: TRANSFORMER SUB-ASSEMBLY –
Before installing the Heat Kit, uninstall the transformer sub-assembly (Figure 19). Make sure to unplug 12 pin connector before uninstalling the transformer sub-assembly. Follow the Heat Kit Installation Manual to install the Heat Kit. Install transformer sub-assembly back to the unit (Figure 19). Plug in 12-Pin connectors and secure screws while installing transformer sub-assembly back to the unit after heater kit installation.

8.4.3 Air Handler with Circuit Breaker Heat Kit
The circuit breakers have lugs for power supply connection. See the HKS Installation Instructions for further details.

WARNING
• Use only specified wire and connects to terminals tightly. Be careful that wires do not place external stress on terminals. Keep wire in neat order; not to obstruct other equipment. Make sure that the access panel closed tightly. Incomplete connections could result in overheating, and in worse cases, electric shock or fire.

NOTE
• Never connect power supply wiring to the terminal block for remote controller wiring as this could damage the entire system.

WARNING
• When doing the wiring, make sure the wiring is neat and does not cause the access panel to stick up, and then close the cover firmly. When attaching the electric component box cover, make sure you do not pinch any wires.
1. Place red wires on 208 V terminal of 2-transformer (TR1/TR2) for 208 VAC operation.

2. Manufacturer's specified replacement parts must be used when servicing.

3. If any of the original wires as supplied with this unit must be replaced, it must be replaced with wiring material having a temperature rating of at least 105°C. Use copper conductors only.

4. Unit must be permanently grounded and confirm to N.E.C and local codes.

5. Discard connector PL1 when installing optional heat kit.

6. Remove short red circuiting wire and put aux alarm switch when installing aux alarm switch.

7. Use N.E.C Class 2 wire.

INTEGRATED CONTROL:
- Low Voltage Field
- High Voltage Field
- High Voltage Field
- Junction
- Plug Connection
- Equipment Ground
- Field Ground

COLOR CODES:
- BL - BLUE
- RD - RED
- YL - YELLOW
- OR - ORANGE
- BK - BLACK
- GR - GREEN
- WH - WHITE
- PU - PURPLE

COMPONENT CODES:
- PL1, PL2 - Disconnect Switch Connector
- TR1, TR2 - Transformer
- IFN, FDU - Fuse Link
- PL3, PL4 - Transformer Connector
**PRECAUTIONS**
- Refer to the "REMOTE CONTROLLER INSTALLATION MANUAL" on how to install and lay the wiring for the remote controller.
- See also the "Wiring Diagram Label" located inside the unit’s fan housing.
- Connect the remote controller and transmission wiring to the respective terminal blocks.

**WIRING EXAMPLE**

**WHEN USING 1 REMOTE CONTROLLER FOR 1 INDOOR UNIT.**

**NO. 2 SYSTEM:**
For group control or use with 2 remote controllers.

**NO. 1 SYSTEM:**
When using 1 remote controller for 1 indoor unit.

1. Set up indoor unit A with appropriate field settings.
2. Turn power OFF.
3. Move the remote controller from indoor unit A to indoor unit B.
4. Turn power ON, set indoor unit B with appropriate settings.
5. Repeat Step 2 to Step 4 for the rest of the indoor units.
6. Complete the connections after all of the indoor unit settings are finished.

When one remote controller is used with multiple indoor units which are different models from each other (for example FXTQ and FXFQ), some field setting menu may not display on remote controller. Follow steps below for such case.

Note) There is not need to set the indoor unit address when using group control. (It is automatically set when the power is turned on.)
8.5 CONTROL BY 2 REMOTE CONTROLLERS
Controlling 1 indoor unit by 2 remote controllers

When using 2 remote controllers, one must be set to “MAIN” and the other to “SUB”.

Refer to the installation manual of the controller for setting the “MAIN” and “SUB” controller.

PRECAUTIONS
- Daisy chain wiring is needed when using group control and 2 remote controllers at the same time.
- Connect the indoor unit at the end of the crossover wire (P1, P2) to remote controller 2 (SUB).

8.6 REMOTE CONTROL (FORCED OFF AND ON/OFF OPERATION)

- Connect input lines from the outside to the terminals T1 and T2 on the terminal block (8P) for remote controller to achieve remote control.
- See the “9. FIELD SETTING AND TEST RUN” for details on operation.

8.7 FIRE ALARM SWITCH
The control is equipped with two Fire Alarm terminals, labeled T1 and T2 which are typically utilized in series. The fire alarm switch must be normally closed and open when the alarm occurs.

For example, a normally closed fire alarm switch will open when the CO2 reaches a particular level. The control will respond by turning off whole system (all indoor units and outdoor unit) and displaying the proper fault codes.

(The switch is closed as part of the default factory setting.) The error will be maintained in the equipment’s fault history. See picture (Figure 27) for the connection location.
Refer to Table 5 for fire alarm setting.

8.8 Auxiliary Alarm Switch

The control is equipped with two Auxiliary Alarm terminals, labeled TB4 and TB5 (2VA or less) which are typically utilized in series with a condensate switch.

The auxiliary alarm switch must be normally closed and open when the alarm occurs. For example, a normally closed condensate switch will open when the base pan’s water level reaches a particular level. The control will respond by turning off the blower motor and outdoor unit and displaying the proper fault codes.

If the switch is later detected closed for 30 seconds, normal operation resumes and the error message is removed. (The switch is closed as part of the default factory setting.) The error will be maintained in the equipment’s fault history.

See Figure 28.

8.9 Centralized Control

For centralized control, it is necessary to designate the group No. For details, refer to the manual of each optional controller for centralized control.

9. FIELD SETTING

Field settings may have to be performed using the remote controller, depending on the type of installation.

1. Make sure the electric component box covers are closed on the indoor and outdoor units.
2. Depending on the type of installation, make the field settings from the remote controller after the power is turned on, following the “Field Settings” manual which came with the remote controller.
   - The settings can select “Mode No.,” “FIRST CODE NO.” and “SECOND CODE NO.”.
   - Field settings are normally applied to the entire remote control group, however if individual indoor units in the remote control group require specific settings or for confirmation that settings have been established, utilize the “Mode No.” in parenthesis.
   - The “Field Settings” included with the remote controller lists the order of the settings and method of operation.

9.1 Settings When Using the Optional Remote Sensor

This product does not include an air inlet thermistor. It uses a remote controller thermistor for control purposes. For this reason, it is necessary to install an optional remote sensor in the following cases:

- When the remote controller will be installed at a location where it cannot accurately measure the indoor temperature.
- When using a remote controller without a built-in thermistor (simple remote controller, wireless remote controller, no remote controller).

When using an optional remote sensor, change the settings as described Table 3:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>To use only the remote sensor</td>
<td>10 (20)</td>
<td>2</td>
<td>02</td>
</tr>
<tr>
<td>To use only the remote controller thermistor</td>
<td>10 (20)</td>
<td>2</td>
<td>03*</td>
</tr>
</tbody>
</table>

*Factory Set

Table 3

Indoor units settings must be changed to Available as per Table 4 when group remote control is used.

Indoor units not using group remote control may remain on factory settings.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available</td>
<td>10 (20)</td>
<td>6</td>
<td>01*</td>
</tr>
<tr>
<td>Available</td>
<td>10 (20)</td>
<td>6</td>
<td>02</td>
</tr>
</tbody>
</table>

*Factory Set

Table 4

9.2 Remote Control Setting (T1, T2)

Forced off and ON/OFF operation should be selected by selecting the SECOND CODE NO. as shown in Table 5.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Forced Off</td>
<td>12/(22)</td>
<td>1</td>
<td>01*</td>
</tr>
<tr>
<td>ON/OFF Operation</td>
<td></td>
<td></td>
<td>02</td>
</tr>
<tr>
<td>System/Equipment Protection</td>
<td></td>
<td></td>
<td>03</td>
</tr>
</tbody>
</table>

*Factory Set

Table 5

Input A of forced off and ON/OFF operation work as shown in Table 6.
### Forced Off

<table>
<thead>
<tr>
<th>Forced Off</th>
<th>ON/OFF Operation</th>
<th>System/Equipment Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input A “on” to force a stop (remote controller reception prohibited)</td>
<td>Unit operated by changing input A from “off” to “on”</td>
<td>Input A “off” to stop system</td>
</tr>
<tr>
<td>Input A “off” to allow remote controller</td>
<td>Unit stopped by changing input A from “on” to “off”</td>
<td></td>
</tr>
</tbody>
</table>

| TABLE 6 |

### 9.3 Setting the Filter Sign Display Interval

- Explain the following to the customer if the filter dirt settings have been changed.
- The filter sign display time is set to 2500 hours (equivalent to 1 year’s use) when shipped.
- The settings can be changed to not display.
- When installing the unit in a dusty place, set the filter sign display time to shorter intervals (1,250 hours).
- Explain to the customer that the filter needs to be cleaned regularly to prevent clogging and also the time that is set.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>10(20)</td>
</tr>
<tr>
<td></td>
<td>Filter dirt</td>
<td>low</td>
</tr>
<tr>
<td></td>
<td>1 (low/ high)</td>
<td>high</td>
</tr>
<tr>
<td></td>
<td>Displayed time (units: hours)</td>
<td>2500/1250 10000/5000</td>
</tr>
<tr>
<td>3</td>
<td>Filter sign display</td>
<td>ON OFF</td>
</tr>
</tbody>
</table>

### 9.4 Return Air Filter

Each installation must include a return air filter. This filtering may be performed at the air handler using the factory filter rails or externally such as a return air filter grille. When using the factory filter rails, a nominal 16x20x1”, 20x20x1” or 24x20x1” (actual dimension must be less than 23-½”x20”) filter can be installed. Washable versions are available through your local Daikin distributor.

### 9.5 Electric Heat

Refer to the installation manual provided with the electric heat kit for the correct installation procedure. All electric heat must be field installed. If installing this option, the ONLY heat kits that are permitted to be used are the Daikin produced HKS series. Refer to the air handler unit’s Serial and Rating plate or the HKS specification sheets to determine the heat kits compatible with a given air handler. No other accessory heat kit besides the HKS series may be installed in these air handlers. The heating mode temperature rise is dependent upon the system airflow, the supply voltage, and the heat kit size (kW) selected.

For installations not indicated above the following formula is to be used:

\[
TR = (kW \times 3412) \times (Voltage\ Correction) / (1.08 \times CFM)
\]

Where:

- \( TR \) = Temperature Rise
- \( kW \) = Heater Kit Actual kW
- 3412 = Btu per kW
- \( VC^* \) = .96 (230 Supply Volts)
  = .92 (220 Supply Volts)
  = .87 (208 Supply Volts)
- 1.08 = Constant
- \( CFM \) = Measured Airflow
- \( VC \) (Voltage Correction)

**NOTE:** THE TEMPERATURE RISE CALCULATIONS CAN ALSO BE USED TO ESTIMATE THE AIR HANDLER AIRFLOW DELIVERY. WHEN USING THESE TABLES FOR THIS PURPOSE SET THE ROOM THERMOSTAT TO MAXIMUM HEAT AND ALLOW THE SYSTEM TO REACH STEADY STATE CONDITIONS. INSERT TWO THERMOMETERS, ONE IN THE RETURN AIR AND ONE IN THE SUPPLY AIR. THE TEMPERATURE RISE IS THE SUPPLY AIR TEMPERATURE MINUS THE RETURN AIR TEMPERATURE. USING THE TEMPERATURE RISE CALCULATED, CFM CAN BE ESTIMATED FROM THE TR FORMULA ABOVE. SEE SPECIFICATION SHEET AND/OR SERVICE MANUAL FOR MORE INFORMATION.

### CAUTION

- **DO NOT OPERATE THIS PRODUCT WITHOUT ALL THE DUCTWORK ATTACHED.**
### Electric Heater Setting 11(21)-3-XX

<table>
<thead>
<tr>
<th>XX</th>
<th>01 (*)</th>
<th>02</th>
<th>07</th>
<th>08</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric Heater run for Defrost/oil return operation</td>
<td>Not Allowed</td>
<td>Not allowed</td>
<td>Allowed</td>
<td>Allowed</td>
</tr>
</tbody>
</table>

*Factory Set

---

### 9.5.1 Electric Heater ON/OFF Temperature Setting

When an auxiliary heater is installed and controlled by the indoor unit, the heater ON/OFF temperatures, Ton and Toff, can be selected individually by switching the 1st code and 2nd code according to the following table.

![Electric Heater Operation Diagram](Figure 29)

**“S” Value varies automatically based on the room temperature trend**

**Electric Heater & Heat Pump Operation Mode**

---

*Factory Set*
Perform on-site setting using the remote controller.

Temperature difference must be 3.6°F or more between “Ton” and “Toff” to activate setting(s).

*Factory Set

9.6 Dry Mode 2.0

14(24)-5-XX
Choose dry mode settings as per the following table:

<table>
<thead>
<tr>
<th>Terminal Name</th>
<th>Input/output signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONTROL ON/OFF</td>
<td>Outputs: indoor unit ON (AC 24V) 11.5VA or less</td>
</tr>
<tr>
<td>ECONOMIZER 2</td>
<td>Output: indoor unit cooling</td>
</tr>
<tr>
<td>ECONOMIZER 1</td>
<td>Receives input: Economizer operation ON (Dry contact)</td>
</tr>
<tr>
<td>HUMIDIFIER</td>
<td>Receives input: Humidifier operation ON (Dry contact)</td>
</tr>
<tr>
<td>AIR CLEANER</td>
<td>Receives input: Air purifier operation ON (Dry contact)</td>
</tr>
</tbody>
</table>

10. ACCESSORIES
1. Installation of the humidifier, economizer and air purifier (UV lamp)

Humidifier, economizer (11.5VA each terminal) and air purifier (UV lamp) are sold separately. For the method of installation, refer to the manual provided with each optional product.
UV Lamp + Humidifier + Economizer
Optional Kit Setting
Mode No. 14(24)
First Code No. 4
Second Code No. XX

10.1 Setting For Separately Sold Accessories
• See the instruction manuals included with optional accessories for the necessary settings.

When using a wireless remote controller
• A wireless remote controller address needs to be set when using a wireless remote controller. See the installation manual included with the wireless remote controller for details on how to make the settings.

11. TEST RUN
• Perform a test run according to the outdoor unit's installation manual.
• The operation lamp of the remote controller will flash when a malfunction occurs. Check the malfunction code on the liquid crystal display to identify the point of trouble. An explanation of malfunction codes and the corresponding trouble is provided in "CAUTION FOR SERVICING" of the outdoor unit.

If the display shows any of the following, there is a possibility that the wiring was done incorrectly or that the power is not on, so check again.
AIR HANDLER
AIR HANDLER HOMEOWNER’S ROUTINE MAINTENANCE RECOMMENDATIONS

We strongly recommend a bi-annual maintenance checkup be performed before the heating and cooling seasons begin by a qualified servicer.

REPLACE OR CLEAN FILTER
IMPORTANT NOTE: Never operate unit without a filter installed as dust and lint will build up on internal parts resulting in loss of efficiency, equipment damage and possible fire.

An indoor air filter must be used with your comfort system. A properly maintained filter will keep the indoor coil of your comfort system clean. A dirty coil could cause poor operation and/or severe equipment damage.

Your air filter or filters could be located in your furnace, in a blower unit, or in “filter grilles” in your ceiling or walls. The installer of your air conditioner or heat pump can tell you where your filter(s) are, and how to clean or replace them.

Check your filter(s) at least once a month. When they are dirty, replace or clean as required. Disposable type filters should be replaced. Reusable type filters may be cleaned.

You may want to ask your dealer about high efficiency filters. High efficiency filters are available in both electronic and non-electronic types. These filters can do a better job of catching small airborne particles.

MOTORS
Indoor and outdoor fan motors are permanently lubricated and do not require additional oiling.

ALUMINUM INDOOR COIL CLEANING
(QUALIFIED SERVICER ONLY)
This unit is equipped with an aluminum tube evaporator coil. The safest way to clean the evaporator coil is to simply flush the coil with water. This cleaning practice remains as the recommended cleaning method for both copper tube and aluminum tube residential evaporator coils.

It has been determined that many coil cleaners and drain pan tablets contain corrosive chemicals that can be harmful to aluminum tube and fin evaporator coils. Even a one-time application of these corrosive chemicals can cause premature aluminum evaporator coil failure. Any cleaners that contain corrosive chemicals including, but not limited to, chlorine and hydroxides, should not be used.

An alternate cleaning method is to use one of the products listed in TP-109* to clean the coils. The cleaners listed are the only agents deemed safe and approved for use to clean round tube aluminum coils. TP-109 is also available on the web site in Partner Link > Service Toolkit.

NOTE: ENSURE COILS ARE RINSED WELL AFTER USE OF ANY CHEMICAL CLEANERS.

WARNING
HIGH VOLTAGE!
DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

CAUTION
TO AVOID THE RISK OF EQUIPMENT DAMAGE OR FIRE, INSTALL THE SAME AMPERAGE BREAKER OR FUSE AS YOU ARE REPLACING. IF THE CIRCUIT BREAKER OR FUSE SHOULD OPEN AGAIN WITHIN THIRTY DAYS, CONTACT A QUALIFIED SERVICER TO CORRECT THE PROBLEM. IF YOU REPEATEDLY RESET THE BREAKER OR REPLACE THE FUSE WITHOUT HAVING THE PROBLEM CORRECTED, YOU RUN THE RISK OF SEVERE EQUIPMENT DAMAGE.

BEFORE YOU CALL YOUR SERVICER
• Check the thermostat to confirm that it is properly set.
• Wait 15 minutes. Some devices in the outdoor unit or in programmable thermostats will prevent compressor operation for awhile, and then reset automatically. Also, some power companies will install devices which shut off air conditioners for several minutes on hot days. If you wait several minutes, the unit may begin operation on its own.
• Check the electrical panel for tripped circuit breakers or failed fuses. Reset the circuit breakers or replace fuses as necessary.
• Check the disconnect switch near the indoor furnace or blower to confirm that it is closed.
• Check for obstructions on the outdoor unit. Confirm that it has not been covered on the sides or the top. Remove any obstruction that can be safely removed. If the unit is covered with dirt or debris, call a qualified servicer to clean it.
• Check for blockage of the indoor air inlets and outlets. Confirm that they are open and have not been blocked by objects (rugs, curtains or furniture).
• Check the filter. If it is dirty, clean or replace it.
• Listen for any unusual noise(s), other than normal operating noise, that might be coming from the outdoor unit. If you hear unusual noise(s) coming from the unit, call a qualified servicer.
CUSTOMER FEEDBACK
Daikin is very interested in all product comments.
Please fill out the feedback form on the following link:
https://daikincomfort.com/contact-us
You can also scan the QR code on the right to be directed to the feedback page.