

DAIKIN



OPERATION MANUAL

VRV SYSTEM Inverter Air Conditioners

MODELS Air Handling Unit

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FXTQ12TAVJUA	FXTQ12TAVJUD
FXTQ18TAVJUA	FXTQ18TAVJUD
FXTQ24TAVJUA	FXTQ24TAVJUD
FXTQ30TAVJUA	FXTQ30TAVJUD
FXTQ36TAVJUA	FXTQ36TAVJUD
FXTQ42TAVJUA	FXTQ42TAVJUD
FXTQ48TAVJUA	FXTQ48TAVJUD
FXTQ54TAVJUA	FXTQ54TAVJUD
FXTQ60TAVJUA	FXTQ60TAVJUD

English

Français

Español

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.



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1. SAFETY INSTRUCTIONS


Read these “SAFETY INSTRUCTIONS for Operations” carefully before installing. 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 Operation Manual with the Installation 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.

 **DANGER**

- Any abnormalities in the operation of the heat pump such as smoke or fire could result in severe injury or death. Turn off the power and contact your dealer immediately.
- Refrigerant gas may produce toxic gas if it comes in contact with fire, such as from a fan, heater, stove or cooking device. Exposure to this gas could cause severe injury or death.

- For refrigerant leakage, consult your dealer. Refrigerant gas is heavier than air and replaces oxygen. A massive leak could lead to oxygen depletion, especially in basements and an asphyxiation hazard could occur leading to serious injury or death.
- If equipment utilizing a burner is used in the same room as the heat pump, there is the danger of oxygen deficiency which could lead to an asphyxiation hazard resulting in serious injury or death. Be sure to ventilate the room sufficiently to avoid this hazard.
- Safely dispose of the packing materials. Packing materials, such as nails and other metal or wooden parts, may cause stabs or other injuries.
- Tear apart and throw away plastic packaging bags so that children will not play with them. Children playing with plastic bags face the danger of death by suffocation.

 **WARNING**

- Contact your dealer for repair and maintenance. Improper repair and maintenance may result in water leakage, electric shock and fire. Only use accessories made by Daikin that are specifically designed for use with this equipment and have them installed by a professional.
- Contact your dealer to move and reinstall the heat pump. Incomplete installation may result in water leakage, electric shock and fire.
- Never let the indoor unit or the remote controller get wet. Water can cause an electric shock or a fire.
- Never use flammable spray such as hair spray, lacquer or paint near the unit. Flammable spray may cause a fire.
- Never remove the front panel of the unit. A fan rotating at high speed without the front panel is very dangerous.
- Never inspect or service the unit by yourself. Contact a qualified service person to perform this work.
- Turn off all electrical power before doing any maintenance to avoid the risk of serious electric shock. Never sprinkle or spill water or liquids on the unit.
- Do not touch the switch with wet fingers. Touching a switch with wet fingers can cause electric shock.

- Do not allow children to play on or around the unit to prevent injury.
- The heat exchanger fins are sharp enough to cut. To avoid injury, wear gloves or cover the fins while working around them.
- Do not put a finger or other objects into the air inlet or air outlet. The fan is rotating at high speed and will cause injury.
- Check the unit foundation for damage on a continuous basis, especially if it has been in use for a long time. If left in a damaged condition the unit may cause injury.
- Placing a flower vase or other containers with water or other liquids on the unit could cause a shock or fire if a spill occurs.
- Never touch the internal parts of the controller. Do not remove the front panel because some parts inside are dangerous to touch. To check and adjust internal parts, contact your dealer.

⚠ CAUTION

- Do not use the heat pump for any other purposes other than comfort cooling or heating. Do not use the unit for cooling precision instruments, food, plants, animals or works of art.
- Do not place items under the indoor unit as they may be damaged by condensates that may form if the humidity is above 80% or if the drain outlet gets blocked.
- Before cleaning, stop the operation of the unit by turning the power off or by pulling the supply cord out from its receptacle. Otherwise, an electric shock and injury may result.
- Do not wash the heat pump with excessive water. An electric shock or fire may result.
- Avoid placing the controller in a spot splashed with water. Water entering the controller may cause an electric shock or damage the internal electronic parts.
- Do not operate the heat pump when using a room fumigation type of insecticide. Failure to observe this could cause the chemicals to be deposited in the unit and can endanger the health of those who are hypersensitive to chemicals.
- The appliance is not intended for use by young children or infirm persons without supervision.
- The remote controller should be kept away from children so they cannot play with it.

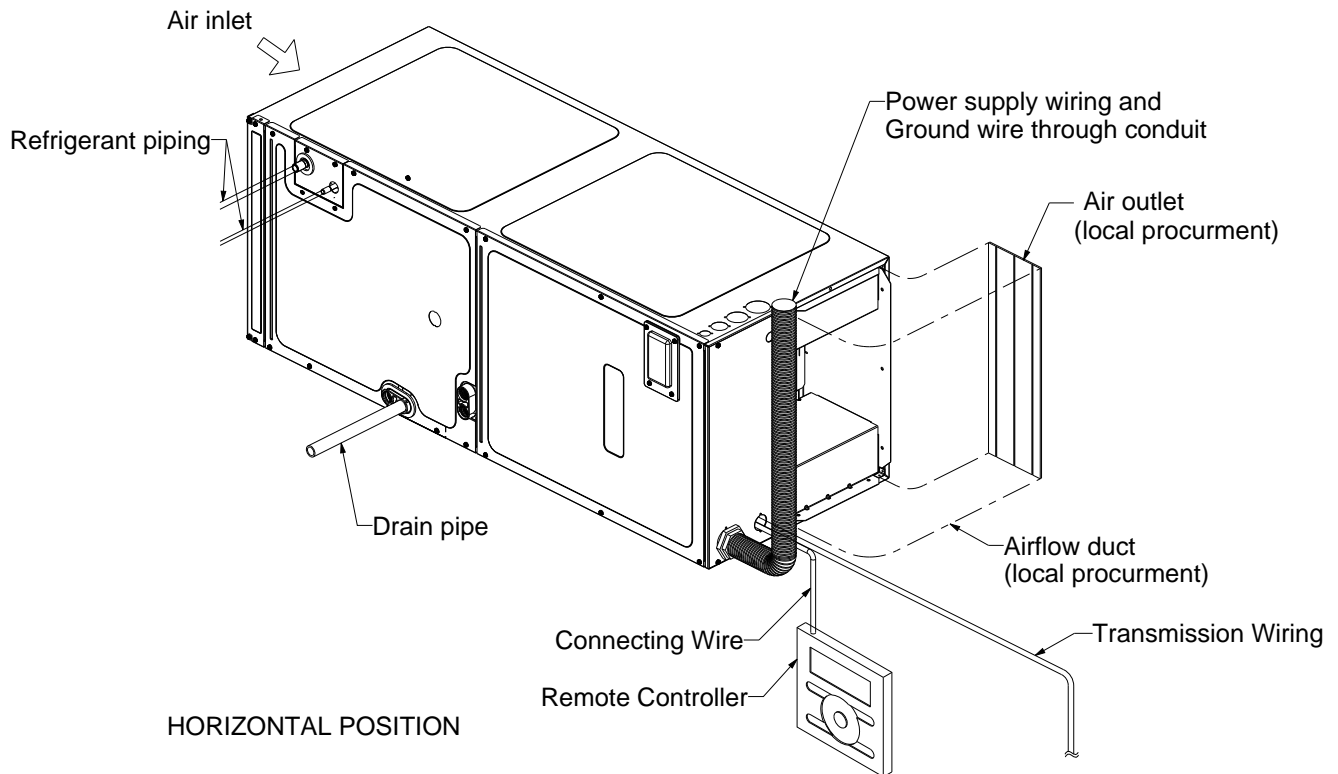
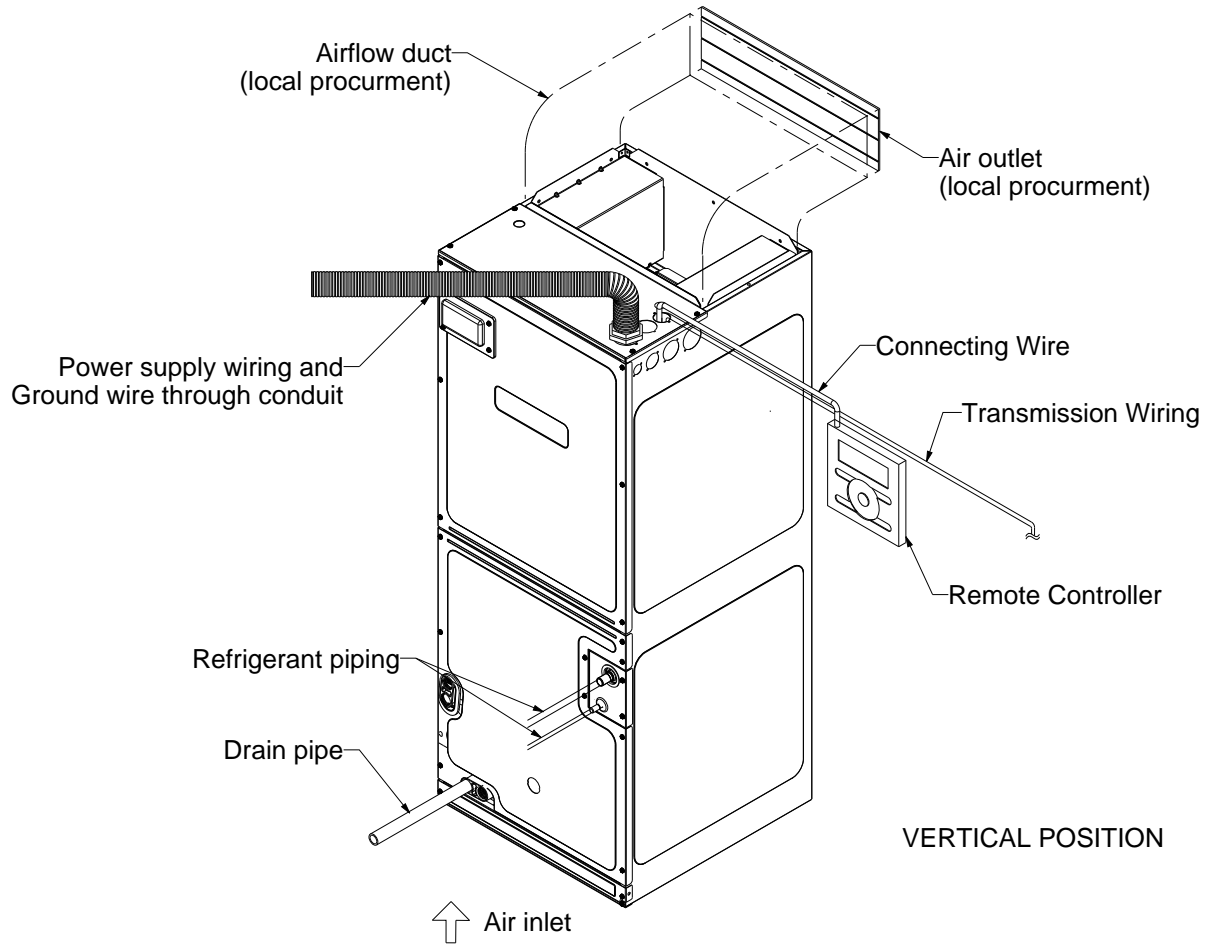
- Consult with the installation contractor for cleaning.
- Incorrect cleaning of the inside of the heat pump could make the plastic parts break and cause water leakage or electric shock.
- Do not touch the air inlet or aluminum fin of the heat pump as they can cut and cause injury.
- Do not place objects in direct proximity of the outside unit. Do not let leaves and other debris accumulate around the unit. Leaves are a hotbed for small animals which can enter the unit. Once inside the unit, animals can cause the unit to malfunction and cause smoke or fire when they make contact with electrical parts.

⚠ NOTE

- Never press the button of the remote controller with a hard, pointed object. The remote controller may be damaged.
- Never pull or twist the electric wire of the remote controller. It may cause the unit to malfunction.
- Do not place appliances that produce open flames in places that are exposed to the air flow of the unit or under the indoor unit. It may cause incomplete combustion or deformation of the unit due to the heat.
- Do not expose the controller to direct sunlight. The LCD display can become discolored and may fail to display the data.
- Do not wipe the controller operation panel with benzene, thinner, chemical dust cloth, etc. The panel may get discolored or the coating can peel off. If it is heavily dirty, soak a cloth in water-diluted neutral detergent, squeeze it well and wipe the panel clean. Then wipe it with another dry cloth.
- Dismantling of the unit, disposal of the refrigerant, oil, and additional parts, should be done in accordance with the relevant local, state, and national regulations.
- Operate the heat pump in a sufficiently ventilated area and not surrounded by obstacles. Do not use the heat pump in the following places.
 - a. Places with a mist of mineral oil, such as cutting oil.
 - b. Locations such as coastal areas where there is a lot of salt in the air.
 - c. Locations such as hot springs where there is a lot of sulfur in the air.
 - d. Locations such as factories where the power voltage varies a lot.

- e. In cars, boats, and other vehicles.
 - f. Locations such as kitchens where oil may splatter or where there is steam in the air.
 - g. Locations where equipment produces electromagnetic waves.
 - h. Places with an acid or alkaline mist.
 - i. Places where fallen leaves can accumulate or where weeds can grow.
- Do not attempt to do electrical work or grounding work, unless you are licensed to do so. Consult with your dealer for electrical work and grounding work.
- Pay attention to operating sound. Be sure to use the following places:
 - a. Places that can sufficiently withstand the weight of the heat pump yet can suppress the operating sound and vibration of the heat pump.
 - b. Places where warm air from the air outlet of the outside unit or the operating sound of the outside unit does not annoy neighbors.
 - Consult your dealer if the heat pump in operation generates unusual noise.
 - Make sure that the drainpipe is installed properly to drain water. If no water is discharged from the drainpipe while the heat pump is in the cooling mode, the drainpipe may be clogged with dust or dirt and water leakage from the indoor unit may occur. Stop operating the heat pump and contact your dealer.
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2. PART NOMENCLATURE



3. MAINTENANCE

WARNING

- **Only a qualified person is allowed to perform maintenance without daily maintenance.**
- **Before touching any of the connection wirings, be sure to turn off all power supply switches.**
- **For installation of optional parts, only a qualified person is allowed to do so.**

Be sure to use optional parts specified by the manufacturer. Installation in your own manner may result in water leakage, electric shock or fire.
- Do not use flammable material (e.g. hair-spray or insecticide) near the product.

CAUTION

- Only proceed with the unit cleaning after stopping the operation and turning the power supply off.

Failure to do so may result in electric shocks or injury.
- **Do not wash the heat pump or air handler with water.**

Failure to do so may result in an electric shock.
- **Consult with installation contractor for cleaning the inside of the air handler.**

Wrong cleaning procedures may break plastic parts or cause water leakage or electric shock.
- **Use a stable prep stand.**

Pay extra attention when cleaning the air handler.

(Maintenance and inspection)

- Clean the drain pan periodically. The drain pipes clogged with dust will cause water leakage.
- For cleaning, consult with your Daikin dealer. (Before each season when cooling or heating is required, clean the air handler.)
- If the area around the indoor unit is very dusty, use a dust proof cover (local procurement).

(Cleaning the inside of the indoor unit)

- It is necessary to clean the inside of the indoor unit periodically.

Since the cleaning requires special technologies, request a Daikin dealer to clean them.

(Electric heater replacement interval)

- The electric heater should be replaced every ten years. This replacement interval is a guideline for ensuring safe and trouble-free operation of the product for many years.

(Cleaning the air filter)

- The air filter is an optional accessory.

EXPLANATION:

- Removing the air filter except when cleaning the air handler may result in accidents.
- Replace the filter when one of the following messages displayed on the bottom of remote controller screen.
 - Time to clean filter & element
 - Time to clean filter
- If using the air handler under very dusty environment, increase the frequency of air filter cleaning.
- Reset the filter sign on main menu of remote controller. Refer an operation manual of remote controller for detail.
- Consult dealer to change filter setting time to display filter change alarm on remote controller screen. (The default factory setting is 2500 hours.)
- There are the following time, display pattern: 1250, 2500, 5000, 10000.

⚠ WARNING

- **Do not allow the indoor unit to get wet as it may cause an electric shock or fire.**
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4. PRECAUTIONS

If the following phenomenon occurs, contact your dealer.

⚠ DANGER

- **Any abnormalities in the operation of the heat pump or air handler such as smoke or fire could result in severe injury or death.**

Turn off the power and contact your dealer immediately for instructions.

Phenomenon

- The unit may operate with the airflow rate at high speed even though the airflow rate was set to low speed using the remote controller during ELECTRIC HEATER operation.

Take the following actions before contact.

Check to see if an optional electric heater is installed. The unit operates with the airflow rate at high speed during ELECTRIC HEATER operation regardless of the remote controller airflow rate setting or display.

Phenomenon

- The safety devices such as fuse, breaker, ground fault interrupter, etc. often operate or operations of the operation switch are unstable.

Take the following actions before contact.

Turn off the switch.

- If the ON/OFF switch does not properly work,

Take the following actions before contact.

Turn off the main power switch.

Phenomenon

- Water leaks out from the air handler.

Take the following actions before contact.

Stop the operation.

Phenomenon

- Error message is displayed. See the remote controller operation manual for details.

Inform the dealer of the details being displayed on the remote controller.

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.

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.



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.