### Safety Precautions (1)

1. **WARNING**
   - Failure to follow any of CAUTION may in some cases result in grave consequences.
   - Do not use an extension cord.
   - Do not put other loads on the power supply.
   - Use only a separate dedicated power circuit.

2. **CAUTION**
   - When installing or relocating the system, be sure to keep the refrigerant circuit free from all substances other than the specified refrigerant (R410A), such as air.
   - Use the specified types of wires for electrical connections between the indoor and outdoor units. Follow all state and local electrical codes.

3. **CAUTION**
   - If the refrigerant gas leaks during installation, ventilate the area immediately. Refrigerant gas may produce a 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.

4. **CAUTION**
   - Install covers over the wires. Incomplete cover installation may cause terminal overheating, electrical shock, fire or equipment damage.

### Precautions for Selecting the Location

1. **CAUTION**
   - Be sure to observe this instruction. Be sure to establish an earth connection.

2. **CAUTION**
   - Avoid using stranded wires that are not designed for air conditioning units.

3. **CAUTION**
   - Do not install the air conditioner where gas leakage would be exposed to open flames.

### Installation Guidelines

- Where wall or ceiling dents exist in the path of outdoor units or indoor units, follow the procedures below.
- Where wall or ceiling dents exist in the path of outdoor units or indoor units, follow the procedures below.
- Follow the instructions exactly.
- Be sure to establish an earth connection.

### Outdoor Unit Installation (1)

1. **PRECAUTION**
   - When installing the unit, refer to "Precautions for Selecting the Location" and the "Outdoor Unit Installation Drawings" before starting installation work.

2. **PRECAUTION**
   - Drain work (if required)

3. **PRECAUTION**
   - Select the wall or ceiling surface, follow the procedures below.

4. **PRECAUTION**
   - Use the flare mouth of the gas pipe to prevent damage and the specified filling siphon attached.

### Outdoor Unit Installation (2)

1. **PRECAUTION**
   - Use the flare mouth of the gas pipe to prevent damage and the specified filling siphon attached.

2. **PRECAUTION**
   - Use the flare mouth of the gas pipe to prevent damage and the specified filling siphon attached.

### Outdoor Unit Installation (3)

1. **PRECAUTION**
   - Use the flare mouth of the gas pipe to prevent damage and the specified filling siphon attached.

2. **PRECAUTION**
   - Use the flare mouth of the gas pipe to prevent damage and the specified filling siphon attached.

### Test Run and Final Check

1. **PRECAUTION**
   - Do not turn ON the outdoor unit until the final check is completed.

2. **PRECAUTION**
   - Do not turn ON the outdoor unit until the final check is completed.
Safety Precautions (1)

- Failure to follow any of CAUTION may in some cases result in grave consequences.

Precautions for Selecting the Location

1. Choose a site free of shade or supported structures such as walls or roofs, to prevent condensation of water.
2. Choose a location far from all fluids that enter upon the surrounding area such as roadways or sewers.
3. Avoid areas with continual vibration such as near traffic or other industrial locations.

WARNING
- The outdoor unit must be equalized before it is turned on.
- Do not use an extension cord. Do not put other loads on the power supply. Use a only a separate dedicated power circuit.

- Insufficient capacity or incomplete electrical work may cause electrical shock, fire or equipment damage.

- 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.

- Do not install a drier to this R410A unit in order to guarantee its lifetime.

Installation Guidelines

- Where wall or other display to the path of outdoor units or indoor units, follow the manufacturers instructions. For any of the above installation patterns, the wall height of the outdoor wall should be 47-1/2 in (1200 mm) or more.
- Use the indoor unit operation/stop button to use.

- In case using stranded wires is unavoidable for some reason, make sure that the interconnecting wires are thermally insulated. Water leakage when filling.

- To force a test run to stop, press the indoor unit operation/stop button.

Wiring (1)

- Do not install shorted, stripped, or excessively tightened connections, as they may cause refrigerant leakage. If the connection is not properly made, it will cause a refrigerant shortage, leading to a complete breakdown of the unit.
- Do not use liquid solder inside the product. Do not insert the soldering tip inside the hole of the outdoor unit. This will cause an electric shock or fire.
- Do not install a ground fault circuit interrupter breaker. Failure to install a ground fault circuit interrupter breaker may result in electrically shocks, or fire personal injury.

Wiring (2)

- Use the indoor unit operation/stop button to use.

Test Run and Final Check

1. Test operation and final check
   - Do not turn ON the safety breaker until all work is completed. Make sure that the equipment is in proper condition and operating as intended.
2. Test items
   - Outdoor unit installation steps
      - Drain plug (Heat pump-Models)
      - Stop valve cover
      - Refrigerant piping securely before running the compressor. If the compressor is not attached, the stop valve might drip onto the indoor unit.
      - Do not install a drier to this R410A unit in order to guarantee its lifetime.
      - Use a only a separate dedicated power circuit.
      - Do not turn ON the safety breaker until all work is completed. Make sure that the equipment is in proper condition and operating as intended.
   - Testing the connection of the refrigerant gas piping between the outdoor unit and indoor unit: (A) Installation manual
   - Testing the connection of the refrigerant gas piping between the outdoor unit and indoor unit: (B) Drain plug (Heat pump-Models)
   - Refrigerant gas pipes' surface temperature reaches 230˚F (110˚C) max.
   - Heat transfer rate: 0.041 to 0.052W/mK (0.024-0.030Btu/ft/˚F (0.035-0.045kcal/mh˚C))
   - Minimum bend radius: 1-3/16inch (30mm) or more
   - Thickness: 0.393inch (10mm) Min.
DAIKIN AIR CONDITIONER

INSTALLATION MANUAL

Precautions on Installation
- Secure the unit as shown in the image provided in the manual.
- Follow the instructions given in the manual to ensure proper installation.
- Use the specified wires for electrical connections between the indoor and outdoor units.
- Follow all state and local electrical codes.
- Install the air conditioner on a solid base that is level and can support the weight of the unit.
- Install the air conditioner according to the instructions given in this manual.
- Safely dispose of the packing materials. Packing materials, such as nails and other metal or wooden parts, may cause stabs or other injuries.
- Do not use an extension cord. Do not put other loads on the power supply. Use a separate dedicated power circuit.

WARNING
- Do not install the unit in a location where it may be in contact with water or rain.
- Do not install the unit in a location where it may be exposed to high temperatures or direct sunlight.
- Do not install the unit in a location where it may be exposed to extreme cold.
- Do not install the unit in a location where it may be exposed to strong vibrations.
- Do not install the unit in a location where it may be exposed to strong electromagnetic fields.
- Do not install the unit in a location where it may be exposed to strong odors or chemicals.
- Do not install the unit in a location where it may be exposed to strong dust or dirt.
- Do not install the unit in a location where it may be exposed to strong vibrations.
- Do not install the unit in a location where it may be exposed to strong electromagnetic fields.
- Do not install the unit in a location where it may be exposed to strong odors or chemicals.
- Do not install the unit in a location where it may be exposed to strong dust or dirt.
- Do not install the unit in a location where it may be exposed to strong vibrations.
- Do not install the unit in a location where it may be exposed to strong electromagnetic fields.
- Do not install the unit in a location where it may be exposed to strong odors or chemicals.
- Do not install the unit in a location where it may be exposed to strong dust or dirt.
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- Do not install the unit in a location where it may be exposed to strong vibrations.
- Do not install the unit in a location where it may be exposed to strong electromagnetic fields.
- Do not install the unit in a location where it may be exposed to strong odors or chemicals.
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- Do not install the unit in a location where it may be exposed to strong electromagnetic fields.
- Do not install the unit in a location where it may be exposed to strong odors or chemicals.
- Do not install the unit in a location where it may be exposed to strong dust or dirt.
- Do not install the unit in a location where it may be exposed to strong vibrations.
- Do not install the unit in a location where it may be exposed to strong electromagnetic fields.
- Do not install the unit in a location where it may be exposed to strong odors or chemicals.
- Do not install the unit in a location where it may be exposed to strong dust or dirt.
- Do not install the unit in a location where it may be exposed to strong vibrations.
### Safety Precautions (1)

- **WARNING**
  - Never install the unit in a wet or damp location. 
  - Never install the unit in a location subject to knocks or vibrations. 
  - Do not install the unit near flammable gas or explosive gas. 
  - Do not install the unit in a location subject to water or corrosion. 
  - Do not install the unit near an air conditioner receiving unit. 
  - If the unit is not installed properly, it may cause electric shock, fire, or equipment damage.

- **CAUTION**
  - Care should be taken to avoid contact with sharp edges or projections when handling the unit. 
  - Do not install the unit in a location subject to water or corrosion. 
  - If the unit is not installed properly, it may cause electric shock, fire, or equipment damage.

### Precautions on Installation

- Ensure that the installation site is suitable for the unit. 
- Ensure that the installation site is suitable for the unit's load. 
- Ensure that the installation site is suitable for the unit's noise. 
- Ensure that the installation site is suitable for the unit's vibration. 
- Ensure that the installation site is suitable for the unit's safety.

### Outdoor Unit Installation (1)

1. **Installing the Outdoor Unit**
   - **Installation Procedure**
     1. Open the cover of the outdoor unit. 
     2. Install the unit in the desired location. 
     3. Connect the electrical wiring. 
     4. Connect the refrigerant pipes. 
     5. Connect the drain piping. 

2. **Drainage and Water Leakage**
   - **Procedure**
     1. Install the drainage pipe from the outdoor unit to the condensate drain. 
     2. Check if the drainage pipe is properly sealed. 
     3. Check if the drainage pipe is properly connected.

### Outdoor Unit Installation (2)

5. **Purging and Charging Gas Leakage**
   - **Procedure**
     1. Purge air and check gas leakage. 
     2. Charge the refrigerant. 

### Outdoor Unit Installation (3)

6. **Setting the Refrigerant**
   - **Procedure**
     1. Check the refrigerant level on the indoor unit. 
     2. Charge the refrigerant as necessary.

### Wiring (1)

7. **Wiring the Outdoor Unit**
   - **Procedure**
     1. Connect the electrical wiring. 
     2. Connect the refrigerant pipes. 
     3. Connect the drain piping.

### Wiring (2)

2. **Use of Single Core Wire**
   - **Procedure**
     1. Use a single core wire to connect the indoor unit and the outdoor unit. 
     2. Be sure to use a single core wire with the appropriate specification.

### Test Run and Final Check

1. **Test Operation and Final Check**
   - **Procedure**
     1. Run the unit and check its operation. 
     2. Check the unit's performance. 
     3. Check the unit's safety.
Safety Precautions

1. Failure to follow any of CAUTION may in some cases result in grave consequences.

2. Installation Guidelines

- Where wall orabinet locations in the path of outdoor units or indoor units, follow the installation guidelines accordingly.
- For any of the above installation patterns, the wall height on the exhaust side should be 47-3/16 inch (1200mm) or less.
- The surrounding area must be free from the possibility of flammable gas leakage.
- To prevent exposure to water, install the outdoor unit with its base level.
- Make sure to provide for adequate measures in order to prevent the outdoor unit from being used as a shelter by small animals.
- Improper handling may result in injury.

3. Precautions on Installation

- Do not install the outdoor unit at a site where the suction side joint may exists. Check all pipe joints and retighten nuts as needed, then repeat steps 2) through 4).
- All refrigerant pipe joints should be tightened with a torque wrench at 14.2-17.2N m (20-23 lbf ft).
- The earth leakage circuit breaker must operate at 30mA or lower.
- Keep the area around the unit clean.
- Do not connect the power wire to the indoor unit. Doing so may cause electric shock or fire.

4. Outdoor Unit Installation

- Put the unit on the wall level and secure it. Make sure that there is no excessive vibration or resonance, and that the connecting wires are not pulled too tight.
- Do not bend or apply excessive force to the connecting wires and cables to prevent damage.
- Do not connect the power wire and terminal block to the indoor unit. Doing so may cause electric shock or fire.

5. Outdoor Unit Installation (2)

- When purging air and checking gas leakage, be sure to inspect any connections that might cause leaks.
- When checking gas leakage, be sure to inspect any connections that might cause leaks.

6. Setting the Refrigerant

- When filling the refrigerant, be sure to use the refrigerant suitable for the specific application.
- Be sure to check the unit's specifications for the correct refrigerant type.
- Use only the refrigerant recommended by the manufacturer.

7. Refrigerant piping work

- Before starting the refrigerant piping work, be sure to follow the manufacturer's instructions.
- Be sure to check the unit's specifications for the correct refrigerant type.
- Use only the refrigerant recommended by the manufacturer.

8. Test Run and Final Check

- Before the test run, be sure to check all connections for leaks.
- After the test run, make sure to purge any remaining refrigerant.
- Be sure to check the unit's specifications for the correct refrigerant type.
- Use only the refrigerant recommended by the manufacturer.
### Safety Precautions (1)

**DANGER**

- Be sure to connect the grounded conductor to the green or yellow-green wire in the wiring harness. Failure to follow any of CAUTION may in some cases result in grave consequences.

**WARNING**

- After connecting all wiring be sure to shape the cables so that they do not put undue stress on the electrical covers, panels or terminals.

**CAUTION**

- Firmly clamp the interconnecting wires so their terminals receive no external stresses. Incomplete connections or clamping may cause terminal overheating, fire or equipment damage.

- Do not use an extension cord. Do not put other loads on the power supply. Use a only a separate dedicated power circuit.

- Use of other parts may cause the unit to come to lose, water leakage, electrical shock, fire or equipment damage.

- 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.

- 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.

- (Any presence of air or other foreign substance in the refrigerant circuit causes an abnormal pressure rise which may result in rupture, resulting in injury.)

**Precautions on Installation**

- Do not apply refrigeration oil to the connection portion of the refrigerant piping while the connection portion of the refrigerant piping is already fitted.
- Do not apply refrigeration oil to the connection portion of the refrigerant piping while the connection portion of the refrigerant piping is already fitted. (Flare tool for R410A)

**Installation Guidelines**

- Where wall or other obstacles in the path of outdoor units or aerial aerials, follow the instructions in the following text. (A/C model)
- For any of the above installation patterns, the wall height on the aerial side should be 87-9/16 inch (2220mm) or more. (C model)
- Be sure to consider the finishing tape from bottom when the finishing tape is set on the wall. (A/C model)

**Outdoor Unit Installation (1)**

1. **Installing caution**
   - When installing the outdoor unit, refer to "Precautions for Selecting the Location" and the "Outdoor Unit Installation Drawings".

2. **Draw-out-fitting method**
   - The drain port is to be covered by the fans in the outdoor unit. (A/C model)

3. **Finishing the piping**
   - When finishing the piping, make sure that the terminal is firmly connected to the terminal. (A/C model)

**Wiring (1)**

- Do not cut, bend or straighten the tubing, or cut or damage the tubing. (A/C model)
- Do not use excessive force when bending the tubing. (A/C model)

**Refrigerant piping**

- Use the specified tubing and fittings. (A/C model)
- Use the specified tubing and fittings. (A/C model)

**Conduit**

- Use 1/2 inch (16 mm) or 3/4 inch (20 mm) conduit connection. (A/C model)

**Tightening**

- Use the specified tightening torque. (A/C model)

### Outdoor Unit Installation (2)

5. **Piping and checking gas leakage**
   - When piping work is completed, it is necessary to purge the air and check for gas leakage.

**WARNING**

- Do not use gas other than the specified refrigerant (R410A) for the refrigerant system. (A/C model)

**CAUTION**

- When gas leaks make contact with the heat exchanger fins, water leakage, electrical shock, fire or equipment damage may result.

- After closing the liquid stop valve, close the gas stop valve within 3 minutes, then stop the forced operation. (A/C model)

- For the specified refrigerant pressure, use the specified refrigerant piping and fittings. (A/C model)

### Outdoor Unit Installation (3)

6. **Setting the refrigerant**
   - Check that the refrigerant for the unit is the same as the refrigerant for the outdoor unit. (A/C model)

**WARNING**

- For a refrigerant, or piping blockage, close the gas stop valve before the refrigerant enters the unit. (A/C model)

**CAUTION**

- Use the specified tightening torque for all refrigerant tubing. (A/C model)

7. **Refrigerant piping**

**Polyethylene**

- Use the specified tubing and fittings. (A/C model)

**Tightening**

- Use the specified tightening torque for all refrigerant tubing. (A/C model)

### Precautions for Selecting the Location

1. **Choosing a location**
   - The location must be cool and well ventilated. (A/C model)

2. **Choosing a location**
   - The location must be cool and well ventilated. (A/C model)

3. **Choosing a location**
   - The location must be cool and well ventilated. (A/C model)

4. **Choosing a location**
   - The location must be cool and well ventilated. (A/C model)

**CAUTION**

- The location must be cool and well ventilated. (A/C model)

### Installation Guidelines

- Where wall or other obstacles in the path of outdoor units or aerial aerials, follow the instructions in the following text. (A/C model)
- For any of the above installation patterns, the wall height on the aerial side should be 87-9/16 inch (2220mm) or more. (C model)
- Be sure to consider the finishing tape from bottom when the finishing tape is set on the wall. (A/C model)

**Outdoor Unit Installation Drawings**

- Use the specified tubing and fittings. (A/C model)
- Use the specified tubing and fittings. (A/C model)

**Wiring (2)**

- Do not cut, bend or straighten the tubing, or cut or damage the tubing. (A/C model)
- Do not use excessive force when bending the tubing. (A/C model)

**Conduit**

- Use 1/2 inch (16 mm) or 3/4 inch (20 mm) conduit connection. (A/C model)

**Tightening**

- Use the specified tightening torque. (A/C model)

### Test Run and Final Check

1. **Unit operation and check**
   - Ensure that the specified refrigerant is correctly charged.

2. **Test items**
   - The unit is in operation. Check that there is no leak of the specified refrigerant. (A/C model)

3. **Test items**
   - The unit is in operation. Check that there is no leak of the specified refrigerant. (A/C model)

**WARNING**

- Do not turn ON the safety breaker until all work is completed. (A/C model)
Safety Precautions (1)

This manual classifies the precautions into DANGER, WARNING and CAUTION. The reader of this manual should follow the instructions in this manual to ensure safety in operation. Failure to follow any of DANGER may result in death or serious injury. Failure to follow any of WARNING may result in such grave consequences as death or serious injury. Failure to follow any of CAUTION may in some cases result in grave consequences.

Precautions for Selecting the Location

1. Installing outdoor unit.
   - When using the outdoor unit, refer to “Precautions for Selecting the Location” and the “Outdoor Unit Installation Drawings”.
   - After selecting the location, follow the procedure below.

2. Drain work (pipe-pumping)
   - The pipe-pumping work is carried out by a professional firm.
   - The drain pipe is connected to the discharge and surface pipes. Additional packaging work is necessary.

3. Piping bundle diagram
   - The piping bundle diagram is shown in the figure.

4. Refrigerant piping
   - Use flat washers and crimp-style terminals on the refrigerant piping.
   - Check that the flaring is properly made.

5. Vacuum pump
   - The vacuum pump is used to prevent the refrigerant gas from being released directly into the environment.

6. Refrigeration components
   - Ensure that the refrigeration components are properly connected.

7. Outdoor unit installation
   - Ensure that the outdoor unit is properly installed.

8. Test run and final check
   - Perform the test run and final check to ensure proper operation.

Installation Guidelines

1. Test operation and testing
   - Perform the test operation and testing to ensure proper operation.

2. Test items
   - Test items include:
     - Refrigerant piping
     - Electrical wiring
     - Piping bundle diagram
     - Outdoor unit installation
     - Safety precautions

3. Safety precautions
   - Follow the safety precautions to ensure safe operation.

4. Refrigeration components
   - Ensure that the refrigeration components are properly connected.

Outdoor Unit Installation (1)

1. Installing outdoor unit
   - After selecting the location, follow the procedure below.

2. Drain work (pipe-pumping)
   - The pipe-pumping work is carried out by a professional firm.
   - The drain pipe is connected to the discharge and surface pipes. Additional packaging work is necessary.

3. Piping bundle diagram
   - The piping bundle diagram is shown in the figure.

4. Refrigerant piping
   - Use flat washers and crimp-style terminals on the refrigerant piping.
   - Check that the flaring is properly made.

5. Vacuum pump
   - The vacuum pump is used to prevent the refrigerant gas from being released directly into the environment.

6. Refrigeration components
   - Ensure that the refrigeration components are properly connected.

7. Outdoor unit installation
   - Ensure that the outdoor unit is properly installed.

8. Test run and final check
   - Perform the test run and final check to ensure proper operation.
**Safety Precautions (1)**

- **Failure to follow any of CAUTION may in some cases result in grave consequences.**

- **WARNING**
  - Be sure to follow all the precautions below: they are all important for ensuring safety.
  - If the refrigerant gas leaks during installation, ventilate the area immediately. Refrigerant gas may produce a 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.
  - Do not ground units to telephone wires or lightning rods because lightning strikes could cause a severe shock hazard resulting in injury or equipment damage.

- **CAUTION**
  - Refrigerant gas is heavier than air and replaces oxygen. A massive leak could lead to oxygen depletion, especially if the area is not well ventilated. If the air conditioner is installed in an enclosed room, the room must be opened to the outside before starting the installation procedure.

- **NOTE:**
  - The foundation drawing is attached to this manual. When installing on a foundation, be sure to follow the instructions of the foundation drawing.

- **ACCESSORIES**
  - A finishing tape for installation holes, and a refrigerant piping for outdoor unit are supplied.

**Precautions for Selecting the Location**

- **WARNING**
  - Install the air conditioner in a well-ventilated area where it will not be exposed to direct sunlight or heat sources.
  - The wall or other obstacles must be far enough away from the outdoor unit to allow smooth airflow to and from the area.

- **CAUTION**
  - Where a wall or other obstacle is in the path of outdoor unit’s intake or exhaust airflow, follow the instructions below.

**Installation Guidelines**

- **WARNING**
  - Do not use an extension cord. Do not put other loads on the power supply. Use a separate dedicated power circuit.

- **CAUTION**
  - Be sure to insulate both the gas and liquid piping and to provide insulation dimensions as below.

**Outdoor Unit Installation (1)**

1. Installing outdoor unit
   - When installing the outdoor unit, refer to "Precautions for Selecting the Location" and the "Outdoor Unit Installation Drawings.

2. Drain work (for pond models)
   - Use the flare nut fixed to the main unit. (To prevent cracking of the flare nut by aged deterioration.)

3. Rags and a pipe wrench
   - To prevent cracking of the flare nut by aged deterioration.

4. Flare tool for R410A
   - Use the flare tool for R410A to prevent cracking of the flare nut by aged deterioration.

**Outdoor Unit Installation (2)**

1. Purging air and checking gas leakage
   - When piping work is completed, it is necessary to purge the air and check for gas leakage.

**Outdoor Unit Installation (3)**

6. Setting the refrigerant
   - Check the charge of refrigerant to be used on the machine according to the instructions of this manual.

**WARNING**

- A careful check must be made to ensure that all connections are properly made before starting the operation.

**CAUTION**

- Do not use any substance other than the specified refrigerant (R410A) into the refrigeration system.

- Ensure that all connections are properly made before starting the operation.

- If using additional refrigerant, purging air and checking for gas leakage must be performed. If the purging air is not performed, the refrigeration system may become damaged.

- Be sure to follow the instructions given in this manual. Inadequate piping may cause water damage.

**Wiring (1)**

7. Refrigeration piping

8. Wiring

**Test Run and Final Check**

1. Test operation and final check
   - Be sure to perform the test run and final check as specified in this manual.

2. Test items