**Safety Precautions**

- **WARNING**
  - Where a wall or other obstacle is in the path of outdoor unit’s intake or exhaust airflow, follow the installation instruction below.
  - Do not install the air conditioner where gas leakage would be exposed to open flames.
  - During installation, attach the refrigerant piping securely before running the compressor. If the compressor is not attached and the shut-off valve is not made tight, refrigerant may be released into the atmosphere.
  - Use the specified types of wires for electrical connections between the indoor and outdoor units. Follow all state and local electrical codes.
  - Electrical work should be carried out in accordance with the installation manual and the national, state and local electrical wiring codes. Insufficient capacity or incomplete electrical work may cause electrical shock, fire or equipment damage.
  - If the gas leaks and builds up around the unit, it may catch fire.

- **CAUTIONS**
  - It is best to screw in the foundation bolts until their length are 3/4” from the foundation surface.
  - In coastal areas or other places with salty atmosphere of sulfate gas, corrosion may shorten the life of the air conditioner.
  - Install units, power cords and inter-connecting cables at least 10 feet away from television and radio sets. This may cause hum in the speaker or picture distortion in the television set.
  - Do not use mineral oil on flared part.
  - Put the flare nut on the pipe.

- **Earth grounding**
  - In order to protect the environment, be sure to pump down units retaining or disposing of the unit.
  - Do not operate the air conditioner until its installation is completed.
  - After the installation, check for gas leakage from unit and its interconnecting pipelines. Fix all, leak points with a tape from bottom to top.

- **Precautionary Measures when Adding Refrigerant**
  - In order to protect the environment, be sure to pump down units retaining or disposing of the unit.
  - Do not operate the air conditioner until its installation is completed.
  - After the installation, check for gas leakage from unit and its interconnecting pipelines. Fix all, leak points with a tape from bottom to top.

**Outdoor Unit Installation Drawings**

1. **Installation Guidelines**
   - Where a wall or other obstacles is in the path of outdoor unit’s intake or exhaust airflow, follow the installation instruction below.
   - Do not install the air conditioner where gas leakage would be exposed to open flames.

2. **Precautions for Selecting the Location**
   - Choose a place strong enough to bear the weight and load of the unit. The location should not be exposed to direct sunlight.
   - Choose a location where the hot air do not affect any nearby air conditioning equipment or other appliances.
   - There must be sufficient clearance for the running of the unit and of the site.
   - The location should be protected from wind or rain.
   - The location should be away from sources of noise.
   - The location should be away from sources of vibration.
   - The location should be away from sources of flammable gases.

3. **Precautions for Installation**
   - Ensure the strength and safety of the installation site.
   - The installation site should be level.
   - The installation site should be away from sources of noise.
   - The installation site should be away from sources of vibration.
   - The installation site should be away from sources of flammable gases.

4. **Refrigerant Piping**
   - Use the flare nut to connect the flare and the flare nut to the unit’s pipe.
   - To prevent mineral oil from getting into the system as this would reduce the unit life.
   - Put the flare nut on the pipe.

5. **Piping and Wires for Electrical Connections**
   - Installation must be performed by a qualified technician. Improper installation may void the warranty and may cause electrical shock, fire or equipment damage.

6. **Wiring**
   - All connections must be made before operating the unit. Improper installation may void the warranty and may cause electrical shock, fire or equipment damage.
   - Be sure to use the R134a pipe in order to protect the environment and to prevent foreign objects entering the unit.

7. **Refrigerant Charging**
   - Do not charge with R22 refrigerant.
   - Charge the unit with the specified refrigerant only.
   - Charge the unit with the specified refrigerant only.

8. **Operation**
   - Before operation, make sure that all connections are tight.
   - Do not use mineral oil on flared part.
   - Put the flare nut on the pipe.

9. **Service and Maintenance**
   - Before servicing, make sure that the service entrance is located in a convenient place for easy access.
   - Do not use mineral oil on flared part.
   - Put the flare nut on the pipe.

10. **Disposal**
    - After disposal, make sure that the unit is in a safe place.
    - Do not use mineral oil on flared part.
    - Put the flare nut on the pipe.

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**Run Test and Final Check**

1. **Test Operation and Testing**
   - 1-1. Make sure that the supply voltage and current are 208V at 4.5A.
   - 1-2. Check whether the unit is operating as specified.
   - 1-3. Check whether the unit is operating as specified.
   - 1-4. Check whether the unit is operating as specified.
   - 1-5. Check whether the unit is operating as specified.

2. **Test Items**
   - 2-1. Make sure that the supply voltage is within the specified range.
   - 2-2. Make sure that the supply voltage is within the specified range.
   - 2-3. Make sure that the supply voltage is within the specified range.
   - 2-4. Make sure that the supply voltage is within the specified range.
   - 2-5. Make sure that the supply voltage is within the specified range.

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**Installation Guidelines**

- Where a wall or other obstacles is in the path of outdoor unit’s intake or exhaust airflow, follow the installation instruction below.
- Do not install the air conditioner where gas leakage would be exposed to open flames.
- During installation, attach the refrigerant piping securely before running the compressor. If the compressor is not attached and the shut-off valve is not made tight, refrigerant may be released into the atmosphere.
- Use the specified types of wires for electrical connections between the indoor and outdoor units. Follow all state and local electrical codes.
- Electrical work should be carried out in accordance with the installation manual and the national, state and local electrical wiring codes. Insufficient capacity or incomplete electrical work may cause electrical shock, fire or equipment damage.
- If the gas leaks and builds up around the unit, it may catch fire.

**Precautions for Selecting the Location**

- Choose a place strong enough to bear the weight and load of the unit. The location should not be exposed to direct sunlight.
- Choose a location where the hot air do not affect any nearby air conditioning equipment or other appliances.
- There must be sufficient clearance for the running of the unit and of the site.
- The location should be protected from wind or rain.
- The location should be away from sources of noise.
- The location should be away from sources of vibration.
- The location should be away from sources of flammable gases.

**Precautions for Installation**

- Ensure the strength and safety of the installation site.
- The installation site should be level.
- The installation site should be away from sources of noise.
- The installation site should be away from sources of vibration.
- The installation site should be away from sources of flammable gases.

**Refrigerant Piping**

- Use the flare nut to connect the flare and the flare nut to the unit’s pipe.
- To prevent mineral oil from getting into the system as this would reduce the unit life.
- Put the flare nut on the pipe.

**Wiring**

- All connections must be made before operating the unit. Improper installation may void the warranty and may cause electrical shock, fire or equipment damage.
- Be sure to use the R134a pipe in order to protect the environment and to prevent foreign objects entering the unit.

**Refrigerant Charging**

- Do not charge with R22 refrigerant.
- Charge the unit with the specified refrigerant only.
- Charge the unit with the specified refrigerant only.

**Operation**

- Before operation, make sure that all connections are tight.
- Do not use mineral oil on flared part.
- Put the flare nut on the pipe.

**Service and Maintenance**

- Before servicing, make sure that the service entrance is located in a convenient place for easy access.
- Do not use mineral oil on flared part.
- Put the flare nut on the pipe.

**Disposal**

- After disposal, make sure that the unit is in a safe place.
- Do not use mineral oil on flared part.
- Put the flare nut on the pipe.
**Safety Precautions**

- Always wear safety glasses when working in this area.
- Be very careful about product transportation. Some products use PP bands for packaging. Do not use any PP bands for a means of transportation. It is dangerous.

**Precautions for Selecting the Location**

1. Choose a place strong enough to bear the weight and vibration of the unit, the location should not amplified the operating vibration or noise after installed.
2. The location should be strong enough to bear the weight and vibration of the unit.
3. The location should not amplified the operating vibration or noise after installed.

**Precautions on Installation**

- Be sure to observe this instruction. Be sure to establish a proper installation method.
- More than 3 15/16

**Outdoor Unit Installation**

1. Before filling, check whether the cylinder has a siphon attached or not. (It should have something like "liquid filling siphon attached" displayed on it.)
2. It is a mixture of refrigerant, so adding it in gas form may cause the refrigerant composition to change, preventing normal operation.
3. Fill from the liquid pipe in liquid form.

**Wiring**

- Do not use mineral oil on flared part.
- Flare the pipe.
- Put the flare nut on the pipe.

**Run Test and Final Check**

- Do not install unit by hanging from a ceiling or stacking units.
- Do not install unit by hanging from a ceiling or stacking units.
- Do not install unit by hanging from a ceiling or stacking units.

**Conduit**

- Stripping wire at terminal block
- Cutting wire
- Stripping wire at terminal block

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**Installation Guidelines**

- Where a seal or other restraint is to the path of outdoor unit's bottom or endwall, follows for installation.
- For any of the below installation patterns, the wall height on the outside side should be 6 ft or less.
Precautions for Selecting the Location

1. Choose a place strong enough to bear the weight and vibration of the unit. The location should not amplify the outdoor noise.
2. Choose a location where the hot air discharged from the unit and the operating noise will not invade a residence or public area. Be sure to check the local regulations.
3. There must be sufficient clearance for the unit in all directions. Be sure to check the local regulations.
4. The ground must be stable enough to withstand the weight and vibration of the unit. Be sure to check the local regulations.
5. Install the unit in a place where the unit will not be exposed to sunlight or direct wind.
6. Install the unit in a place where the unit will not be exposed to water or moisture.
7. The unit must be installed in a place where the unit will not be exposed to wind or rain. Be sure to check the local regulations.
8. The unit must be installed in a place where the unit will not be exposed to water or moisture. Be sure to check the local regulations.
9. The unit must be installed in a place where the unit will not be exposed to wind or rain. Be sure to check the local regulations.

Precautions for Installation

1. Before the start of installation, make sure that all necessary items are available for installation.
2. Make sure that the installation is performed by a professional technician.
3. Make sure that the installation is performed in a safe and healthy environment.
4. Make sure that the installation is performed in a safe and healthy environment.
5. Make sure that the installation is performed in a safe and healthy environment.
6. Make sure that the installation is performed in a safe and healthy environment.
7. Make sure that the installation is performed in a safe and healthy environment.
8. Make sure that the installation is performed in a safe and healthy environment.
9. Make sure that the installation is performed in a safe and healthy environment.
10. Make sure that the installation is performed in a safe and healthy environment.

Outdoor Unit Installation

1. Installing Outdoor Unit

1.1) When selecting the installation location, refer to "Precautions for Selecting the Location" and the "Outdoor Unit Installation Specifications" given in the previous page.

2. Drain Work

2.1) Always use a drain pipe for drainage. If there is no drain pipe, install outdoor condensation drainage channels. Be sure to check the local regulations.

3. Piping the Pipe End

3.1) Connect the pipes with the flare nut fixed to the main unit. (To prevent cracking of the flare nut by aged deterioration.)

4. Refrigerant Piping

4.1) Use the flare tool to connect the pipes. Be sure to check the local regulations.

5. Purging and Checking for Gas Leakage

5.1) When piping is complete, it is necessary to purge the air and check for gas leakage. Be sure to check the local regulations.

6. Setting the Refrigerant

6.1) Charge the type of refrigerant to be used on the equipment nameplate.

7. Refrigerant Piping Work

7.1) Clean the flare nut by removing any oil or residue. Be sure to check the local regulations.

8. Pump Down Operation

8.1) In order to prevent the environment, be sure to pump down and/or disposing of the unit.

9. Run Test and Final Check

9.1) Test Items

10.2) Test Items

10.3) Test Items

Installation Guidelines

1. Where a wall or other obstructions is in the path of outdoor unit's suction or exhaust airflow, follow the installation guidelines. Be sure to check the local regulations.

2. For any of the above installation patterns, the wall height on the exhaust side should be 6 ft or less. Be sure to check the local regulations.
For any of the below installation patterns, the wall height on the exhaust side should be 4 ft or less.

This manual classifies the precautions into WARNINGS and CAUTIONS. Be sure to follow all the precautions below: they are all important for ensuring safety.

**WARNINGS**

- Do not install the air conditioner where gas leakage would be exposed to open flames.
- After all installation is complete, check to make sure that no refrigerant is leaking.
- 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.
- Install the air conditioner on a solid base that is level and can support the unit's weight. An inadequate base or incomplete installation may cause injury or equipment damage in the event the unit falls off the base or comes loose.
- Be sure to use the supplied or exact specified installation parts. Use of other parts may cause the unit to come to lose, water leakage, electrical shock, fire or equipment damage.
- If the gas leaks and builds up around the unit, it may catch fire.
- (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.)

**CAUTIONS**

- Never install the outdoor unit at a site where the suction side may be exposed directly to wind.
- 7-2 Selection of Copper and Heat Insulation materials

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**Outdoor Unit Installation**

1. **Installing Outdoor Unit**
   1. When selecting the exhaust side, refer to "Precautions for Selecting the Location" and the "Outdoor Unit Installation Drawings" to determine the installation position.

2. **Drain Work**
   1. If the drain port is connected to a vertical drain from the surface, plan additional drainage work as necessary. (Otherwise, drain water may leak, impairing testing performance.)
   2. Do not use copper pipe, as this may cause electric shock or fire.

3. **Piping**
   1. 1/2-10 m, use 2.0-mm wires.

4. **Refrigerant Piping**

5. **Piping and Checking for Gas Leakage**
   1. When piping work is complete, it is necessary to purge the air and check for gas leakage.
   2. **Precautions for Selecting the Location**
   3. **Installing the Refrigerant**

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**Run Test and Final Check**

1. **Trial Operation and Testing.**

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**Wiring**

1. **Precautions for Selecting the Location**
   1. **Wiring**

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**Installation Guidelines**

- Where a wall or other obstacles to the path of outdoor unit's exhaust or indoor airflow, follows the installation guidelines below.
- For any of the above installation patterns, the wall height on the exhaust side should be 2 to 3 ft.