

Contents

1. Safety precautions

1.1. Before installation and electric work

- ▶ Before installing the unit, make sure you read all the "Safety precautions".
- ▶ The "Safety precautions" provide very important points regarding safety. Make sure you follow them.

Symbols used in the text





Warning:

Caution: precautions that should be observed to prevent danger of injury or death to persons.

Caution:

Caution: precautions that should be observed to prevent damage to the unit.

Symbols used in the illustrations

-  Indicates an action that must be avoided.
-  Indicates that important instructions must be followed.
-  Indicates a part which must be grounded.
-  Represents electric shock. (This symbol is displayed on the main unit label.)

Warning:

Carefully read the label affixed to the main unit.

Warning:

- ▶ Ask the dealer or an authorized technician to install the air conditioner.
 - Improper installation may cause water leakage, electric shock, or fire.
 - Install the unit at a place that does not obstruct the weight.
 - Insufficient strength may cause the unit to fall down, resulting in injuries.
- ▶ Use the specified cables for wiring. Make the connection securely so that the voltage level of the cables will comply to local codes.
 - Improper connection and handling may generate heat and cause a fire.
- ▶ Refrigerator wiring should not, under any circumstances, be used for the specified phase.
- ▶ Improper installation may cause the unit to topple and result in injury.
- ▶ Always secure filter and other accessories separately by attached brackets.
- ▶ Ask an authorized technician to install the accessories. Improper installation by the user may result in water leakage, electric shock, or fire.
- ▶ Never repair the unit. If the air conditioner was set for "manual", disconnect it at once.
 - If the unit is repaired improperly, water leakage, electric shock, or fire may result.
- ▶ Do not handle the unit recklessly.
 - Improper handling may result in injury.
 - Refrigerant gas leaked during installation work, constitutes the crime.
 - If the refrigerant gas comes into contact with a flame, poisonous gases will be released.
- ▶ Install the air conditioner according to the installation manual.
 - If the unit is installed improperly, water leakage, electric shock, or fire may result.
- ▶ Handle electric work done by a licensed electrician according to "National Electrical Code" and "Local Electrical Code" and "Other applicable codes".
 - If the power supply is inadequate or if a technician's performance is improper, electric shock and fire may result.
- ▶ Do not try to install the outdoor unit horizontally (if any).
 - If the terminal cover (panel) is not installed properly, dust or water may enter the outdoor unit and fire or electric shock may result.
- ▶ Take care in obtaining used refrigerant that will cause damage to the unit, also, it is always set with a refrigerant different from the refrigerant specified on the unit.
 - If different refrigerant or air is mixed with the original refrigerant, the refrigerant cycle may malfunction and the unit may be damaged.
- ▶ When the air conditioner is installed in a wall or on a ceiling, secure it with a brace to prevent the refrigerant access from becoming too narrow that it is not possible to enter the unit.
- ▶ Consult the dealer regarding the appropriate measures to prevent the safety lock from being activated. Check the refrigerant level and secure the safety lock before activation. Handle due to lack of oxygen in the room equipment.

- ▶ When working and installing the air conditioner, avoid the dealer or an authorized technician.
 - If the air conditioner is installed improperly, water leakage, electric shock, or fire may result.
- ▶ After completing installation work, make sure that refrigerant gas is not leaking.
 - If the refrigerant gas leaks and is exposed to a fan heater, stove, grill, or other heat source, it may generate carbon dioxide.
- ▶ Do not disconnect or change the settings of the protection devices.
 - If the pressure switch, thermal switch, or other protection device is shorted and operated wrongly, or parts other than those specified are substituted (over the specified), fire or explosion may result.
- ▶ In a place of this product, avoid your smoking.
- ▶ The installer and anyone associated should ensure safety against leakage according to local regulations or standards.
 - Following standards may be applied when it local regulation are not available: the regulation of the place of installation, such as a business, etc.
- ▶ When refrigerant gas is not accessible, avoid refrigeration to handle from the air.
- ▶ Note: If the unit is the type, the installation site must be carefully checked for any leaks or electric shorting before the power when the thermostat is turned on.
 - Direct exposure to outdoor air may have harmful effects on people or food.

1.2. Precautions for devices that use R410A refrigerant

Caution:

- ▶ Do not use existing refrigerant piping.
 - The old refrigerant and refrigerant oil in the existing piping contains a large amount of chlorine which may cause the refrigerant oil of the new unit to deteriorate.
 - R410A is a high-pressure refrigerant and can cause the existing piping to burst.
- ▶ Use refrigerant piping made of plastic or metal. Installation support and support accessories should be used. In addition, the use of the lower and middle sections of piping should be avoided and those of horizontal section, elbows, couplings, bending portions, etc., should be, or any other accessories.
- ▶ Contaminants on the inside of the refrigerant piping may cause the refrigerant and reduced oil to leak out.
- ▶ Secure the piping in the correct starting installation location and keep both ends of the piping sealed until just before loading. (Store them in a plastic bag.)
 - If dust, dirt, or water enters the refrigerant cycle, deterioration of the oil and compressor trouble may result.
- ▶ Use R410A, either oil or refrigerant (avoid vacuum) with a refrigerant oil to avoid foam and foreign contamination.
 - The refrigerant oil will degrade if it is mixed with a large amount of mineral oil.
- ▶ Use the correct refrigerant to fill the system.
 - If gas refrigerant is used to seal the system, the composition of the refrigerant in the cylinder will change and performance may drop.
- ▶ Do not use a refrigerant other than R410A.
 - If another refrigerant (oil), etc. is mixed with R410A, the piping in the refrigerant may deteriorate.
- ▶ Use a vacuum pump with a vacuum level about 100 microns.
 - The vacuum pump oil may flow back into the refrigerant cycle and cause the refrigerant oil to deteriorate.
- ▶ Do not use the brazing torch that was used with conventional refrigerants.
(Change materials, using a flame, gas leak detectors, remove them about twice, refrigerant change is over, refrigerant level may drop.)
 - If the conventional refrigerant and refrigerant oil are mixed in the R410A, the refrigerant may deteriorate.
 - If water is mixed in the R410A, the refrigerant oil may deteriorate.
 - Since R410A does not contain any chlorine, gas leak detectors for conventional refrigerants will not react to it.
- ▶ The unit uses a non-flammable refrigerant.
 - Misuse of charging cylinder may cause the refrigerant to deteriorate.
- ▶ The operating method when charging the unit is:
 - If dust, dirt, or water gets into the refrigerant cycle, the refrigerant may deteriorate.

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