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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 a safety topic (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 conditioning. Improper installation by the user may result in 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 connections securely so that the voltage level of the cables will comply to local codes.
- ▶ Insufficient grounding and fastening may generate heat and cause wiring.
- ▶ Improper wiring or cable size, wiring distance, loose connection, the open-end phase.
- ▶ Improper installation may cause the unit to topple and result in injury.
- ▶ Always secure filter and other accessories specified by illustrated illustrations.
- ▶ 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 "negative", disconnect it at once.
- ▶ If the unit is repaired improperly, water leakage, electric shock, wiring may result.
- ▶ Do not handle the unit, including the fan.
- ▶ Improper handling may result in injury.
- ▶ Refrigerant gas leaks during installation work, resulting in death.
- ▶ 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 "Electrical Working Code" and "Safety Rules" and "Safety Rules" and "Safety Rules" and "Safety Rules".
- ▶ If the power supply is supplied or if a power cord is connected, the property of electric shock and fire may result.
- ▶ Do not touch the unit with bare hands (if wet).
- ▶ 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 to identify the air conditioner for outdoor use, etc. and always use with a refrigerant different from the refrigerant specified on the unit.
- ▶ Do not add 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, secure it with a frame to prevent the refrigerant access from becoming too narrow that of the refrigerant access hole.
- ▶ Consult the dealer regarding the appropriate measures to prevent the safety lock from being activated. Damage due to lock of system 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 monoxide.
- ▶ Do not connect or disconnect 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 (other than the unit), fire or explosion may result.
- ▶ In a place of this product, avoid your smoke.
- ▶ The dealer and a system specialist should secure safety against leakage according to local regulations or standards.
- ▶ Following standards may be applied when a local regulation or standard is not available.
- ▶ The general standard for the place of installation, such as a bathroom, etc., where refrigerant gas can accumulate, where refrigeration is needed than the air.
- ▶ Note: The dealer takes type, the installation site used to install the unit has no safety or electric shock hazard but the user should be informed of the hazard.
- ▶ 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 material must follow the instructions. Use only the lower and middle sections of piping (no upper section and then of installation support, ceiling, wall, etc.) and existing piping, etc., including, or any other material.
- ▶ Contaminants on the inside of the refrigerant piping may cause the refrigerant and reduced oil to deteriorate.
- ▶ Secure the piping in the room during installation because wet leak both ends of the piping must be sealed (not before sealing). (Other effects and other points in a plastic bag.)
- ▶ If dust, dirt, or water enters the refrigerant cycle, deterioration of the oil and compressor trouble may result.
- ▶ Use water etc. when oil or refrigerant (used oil) is not a refrigerant oil to avoid foam and things accumulation.
- ▶ The refrigerant oil will degrade if it is mixed with a large amount of mineral oil.
- ▶ Use the 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 a refrigerant piping and oil, etc. is mixed with R410A, the piping in the refrigerant may deteriorate.
- ▶ Use a vacuum pump with a vacuum level about 100 μm.
- ▶ The vacuum pump oil may flow back into the refrigerant cycle and cause the refrigerant oil to deteriorate.
- ▶ Do not use the existing tools that are used with conventional refrigerants.
- ▶ Change materials, using a hose, gas leak detector, vacuum filter, etc. when the refrigerant changes from R22 to R410A.
- ▶ 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.
- ▶ Check R410A does not contain any chlorine, gas leak detectors for conventional refrigerants will not react to it.
- ▶ The unit does not require a vacuum pump.
- ▶ Vacuum charging of oil may cause the refrigerant to deteriorate.
- ▶ The existing control valve is wrong for the use.
- ▶ If dust, dirt, or water gets into the refrigerant cycle, the refrigerant may deteriorate.

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operate HVAC systems are divided into components and controls for air water heating ventilating and air conditioning to illustrate how each system subsystem control or component contributes to providing the desired indoor environment The reader will learn why one component or system may be chosen over another with respect to design application energy conservation indoor air quality and cost This book also covers heat flow fundamentals and calculations used in selecting equipment and determining system operating performance and cost Fluid flow fundamentals and equations and fundamentals of system testing and verification of system performance are also covered in this book This gives the reader a complete picture of systems from concept to operation The chapters are organized in a way that one builds upon another and systems components design and application are revisited as the reader gains knowledge and insight about the workings of HVAC and heat pump systems This new edition has been revised and expanded with new drawings to give the reader a complete picture of HVAC and heat pump systems Along with the Tables chapter for reference the HVAC Math chapter has equations and example problems for many systems and components operation energy and cost calculations

Universal R-410A Safety & Training John Tomczyk ,Joe Nott,Dick Shaw,2002-04-01 Universal R 410A Safety Training covers the necessary training and practical knowledge to safely service systems containing R 410A and R 407C the R 22 phase out appropriate refrigerant and oil applications service techniques and safe handling of R 410A

The HVAC/R Professional's Field Guide to Universal R-410a Safety John Tomczyk,Joe Nott,Dick Shaw,2002 This manual was developed to provide field service personnel with the necessary training and practical knowledge to safely perform service on systems containing R 410A and R 407C In addition this manual includes information on R 22 phase out appropriate refrigerant and oil applications service techniques as well as safe handling of R 410A It contains all the information technicians will need to prepare for their R 410A safety certification

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Automation for Facilities Managers Viktor Boed, 1998-06-23 Building owners and managers expect fully automated and energy efficient operations on line diagnostic of systems parameters to prevent failures and on line diagnostic of problems prior to exposing occupants to deteriorating environmental conditions A simple HVAC control is no longer acceptable by current standards Controls and Automation for Facilities Managers examines principles and applications of HVAC engineering outlining information for design development of operations logic systems diagnostics and building of environmental conditions with reliability and minimum operating cost The book moves from the principles of mechanical engineering related to HVAC systems through DDC applications engineering thereby summarizing complex topics of electrical engineering for mechanical engineers Individual chapters Provide essential information on related mechanical HVAC engineering controls strategies and examples of basic algorithms for on line diagnostics Guide DDC application engineers to a more thorough understanding of mechanical engineering disciplines i e the psychrometric chart as well as guide mechanical engineers to a more thorough understanding of DDC applications engineering i e direct digital controllers and systems Outline information on current topics Discussions also include Indoor air quality presenting material for facilities engineers as well as controls and consulting engineers Utilities metering describing the distribution of real time data over a network including consumption alarms diagnostics trends and reports On line problem diagnostics outlining HVAC and environmental problems Controls and Automation for Facilities Managers serves as an exceptional guide for facilities managers and engineers architects and consulting engineers vendors and contractors and other professionals in the design application and implementation of controls and automation systems for industrial educational institutional and governmental facilities This reference will enhance design systems implementation systems operation and maintenance effecting the ultimate goal of its readers implementation of fully automated environmental control systems trouble free operation and optimization of operating and maintenance cost

Heating, Ventilating, and Air Conditioning John E. Traister, 1987 Very Good No Highlights or Markup all pages are intact

Electrical Motor Controls Gary Rockis, Glen Mazur, 2001 This textbook presents technical information on the control devices used in contemporary industrial electrical systems A sampling of topics includes electrical safety magnetic solenoids reversing motor circuits power distribution systems solid state relays reduced voltage starting PLCs and ac

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