

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 of 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 "Electricity Handling Cautions" (Owner's) and "Notice When the electrician" was the electrician given. In this manual, an electrician is specified when it:
 - If the power supply is supplied or if a power cord is performed improperly, electric shock and fire may result.
- ▶ Do not try to install the outdoor unit horizontal when it is used.
 - 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 equipment that will cause electric or fire shock when it is used along with a refrigerant different from the refrigerant specified on the unit.
 - If a 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 the safety level of the refrigerant is reduced.
- ▶ Consult the dealer regarding the appropriate measures to prevent the safety level from being impaired. Check the refrigerant level and secure the safety level before connecting the unit due to lack of proper in the room equipment.

- ▶ When wiring and installing the air conditioner, install 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 disconnect or change the settings of the protection devices.
 - If the pressure switch, thermal switch, or other protection device is changed and operated wrongly, or parts other than those specified are substituted. Over the long term, 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 required safety level for each of installation, work on a ceiling, etc., when refrigerant gas is not accessible, when refrigeration is located less than 1m.
- ▶ Note: If the unit is the type, the installation site must be carefully checked for any leaks or electric shock before the work 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 piping from a professional supplier and refrigerant connection pipes must follow the standards. Be aware that the lower and higher connection of piping causes damage and that of insufficient coupling, cutting, twisting, bending, etc., creates, or may other accidents occur.
 - Contaminants on the inside of the refrigerant piping may cause the refrigerant and reduced oil to leak out.
- ▶ Secure the piping in the correct clamping installation location and keep both ends of the piping sealed until just before bonding. (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 a vacuum pump, either oil or oil-free vacuum (avoid vacuum) with a refrigerant oil to seal these and purge 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 1mm.
 - The vacuum pump oil may flow back into the refrigerant cycle and cause the refrigerant oil to deteriorate.
- ▶ Do not use the bonding tools that are used with conventional refrigerants.
(Change methods, using a hose, gas leak detectors, vacuum level about 1mm, refrigerant level, etc., when the R410A is used.)
 - 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.
 - Some R410A does not contain any chlorine, gas leak detectors for conventional refrigerants will not react to it.
- ▶ The unit uses a non-flammable refrigerant.
 - Although charging of air 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.

Hvac Manual 410

M Lipman



Hvac Manual 410:

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Table of Contents Hvac Manual 410

1. Understanding the eBook Hvac Manual 410
 - The Rise of Digital Reading Hvac Manual 410
 - Advantages of eBooks Over Traditional Books
2. Identifying Hvac Manual 410
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Hvac Manual 410
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hvac Manual 410
 - Personalized Recommendations
 - Hvac Manual 410 User Reviews and Ratings
 - Hvac Manual 410 and Bestseller Lists

5. Accessing Hvac Manual 410 Free and Paid eBooks
 - Hvac Manual 410 Public Domain eBooks
 - Hvac Manual 410 eBook Subscription Services
 - Hvac Manual 410 Budget-Friendly Options
6. Navigating Hvac Manual 410 eBook Formats
 - ePub, PDF, MOBI, and More
 - Hvac Manual 410 Compatibility with Devices
 - Hvac Manual 410 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hvac Manual 410
 - Highlighting and Note-Taking Hvac Manual 410
 - Interactive Elements Hvac Manual 410
8. Staying Engaged with Hvac Manual 410
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hvac Manual 410
9. Balancing eBooks and Physical Books Hvac Manual 410
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hvac Manual 410
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Hvac Manual 410
 - Setting Reading Goals Hvac Manual 410
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hvac Manual 410
 - Fact-Checking eBook Content of Hvac Manual 410
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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