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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 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 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.
 - Improperly connected or fastening may generate heat and cause wiring.
- ▶ 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 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 "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, substitutes the room.
 - 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's name. In this manual, an electrician is specified when it:
 - If the power supply is supplied or if a technician's permission is properly obtained 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 equipment that will cause electric or fire accident 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 room, connect it with a filter to prevent the refrigerant from leaking from the unit and the safety level of the refrigerant in the room.
- ▶ Consult the dealer regarding the appropriate measures to prevent the safety level from being impaired. Check the refrigerant level and gauge 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 dioxide.
- ▶ 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. Over the specified, fire or explosion may result.
- ▶ In a place of this product, avoid your smoking.
- ▶ The installer and anyone specified about safety against leakage according to local regulations or otherwise.
 - Following standards may be applied when it is not regulated or not noticeable. The specified safety level of this product is based on a minimum level, when refrigerant gas is not noticeable, when refrigeration is started from the air.
- ▶ Note: The dealer knows type, the installation site used to install the unit. Do not use the unit or air-conditioning before the dealer when the unit is connected to the unit.
 - 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 supplier and equipment manufacturer's pipes must follow the standards. The use of the lower and weaker materials of piping causes damage and loss of function. Do not use copper, aluminum, stainless steel, galvanized steel, or any other materials.
- ▶ Contaminants on the inside of the refrigerant piping may cause the refrigerant and reduced oil to leak out.
- ▶ 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 R410A, either oil or refrigerant (avoid vacuum) with a refrigerant oil to seal both ends of the connections.
 - 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 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 existing filter that was used with conventional refrigerants.
(Change installation, change a hose, gas leak detector, remove filter about valve, refrigerant change, etc., refrigerant must be replaced.)
 - 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 uses a refrigerant cycle.
 - Mixing charging oil with may cause the refrigerant to deteriorate.
- ▶ The operating method when changing the filter.
 - If dust, dirt, or water gets into the refrigerant cycle, the refrigerant may deteriorate.

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Yicheng Fang



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HVAC Fundamentals Samuel C. Sugarman, 2024-10-30 HVAC Fundamentals System Design Operation Selection and Optimization fully covers the full range of HVAC systems used in today s facilities and how they

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

Manual of Hospital Planning and Designing Ajay Garg, Anil Dewan, 2022-01-29 This book is a one stop resource on all the critical aspects of planning and designing hospitals one of the most complex healthcare projects to undertake A well planned and designed hospital should control infection rate provide safety to patients caregivers and visitors help improve patients recovery and have scope for future expansion and change Reinforcing these basic principles guidance on such effective planning and designing is the key focus Readers are offered insights into eliminating shortcomings at every stage of setting up a hospital which may not be feasible to rectify later on through alterations Chapters from 1 to 12 of the book provide exhaustive notes on initial planning such as detailed project reports feasibility studies and area calculation Chapters 13 to 27 include designing and layout of all the essential departments units such as OPD emergency intermediate care diagnostics operating rooms and intensive care units Chapters 28 to 37 cover designing support services like sterilization department pharmacy medical gas pipeline kitchen laundry medical record and mortuary Chapters 38 to 48 take the readers through planning other services like air conditioning and ventilation fire safety extra low voltage mechanical electrical and plumbing services Chapter 49 is for the planning of medical equipment A particular chapter on Green hospital designing is included This book is a single essential tabletop reference for hospital consultants medical and hospital administrators hospital designers architecture students and hospital promoters

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

HVAC and Chemical Resistance Handbook for the Engineer and Architect Tom Arimes, 1994 The title is misleading until you check out the contents It is all about HVAC and more This compilation has organized data frequently used by Mechanical Engineers Mechanical Contractors and Plant Facility Engineers The book will

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performance material In compact and appealing form the completely revised Glass Construction Manual presents the current state of the art on planning and building with glass from the history through the technical foundations all the way to the most innovative applications Astonishing perspectives on thermal insulation and solar protection and the addition of thoughtfully selected new practical examples round off this comprehensive reference work *INCOSE Needs and Requirements Manual* Louis S. Wheatcraft, Michael J. Ryan, Tami Edner Katz, 2024-11-27 Complete and comprehensive manual for eliciting defining and managing needs and requirements integration verification and validation across the lifecycle The INCOSE Needs and Requirements Manual presents product development and systems engineering practices activities and artifacts from the perspective of needs requirements verification and validation across the system lifecycle Composed of 16 chapters this book provides practical guidance to help organizations understand the importance of lifecycle concepts needs requirements verification and validation activities enabling them to successfully and effectively implement these activities during product development systems engineering and project management The parent handbook published by Wiley INCOSE Systems Engineering Handbook divides the system lifecycle into a series of processes with each process described in terms of a series of activities This Manual provides more detail needed by practitioners to successfully implement these activities with guidance and lessons learned from hundreds of years of collective experience of the authors contributors and reviewers For example while the Handbook mentions the need to define the problem statement mission goals and objectives for a system the Manual provides detailed guidance on doing so Sample topics covered in the INCOSE Needs and Requirements Manual include Defining the problem opportunity or threat and defining a mission statement goals objectives and measures Identifying external and internal stakeholders eliciting stakeholder needs and requirements defining drivers and constraints and assessing risk Performing lifecycle concept analysis and maturation and defining an integrated set of needs that represents the scope of the project Transforming the integrated set of needs into well formed design input requirements Using attributes to manage needs and requirements across the lifecycle Continuous integration verification and validation across the lifecycle Moving between levels of the architecture flow down and allocation of requirements and budgeting performance resource and quality requirements Defining the system verification and system validation success criteria method strategy and responsible organizations Planning and executing successful system verification and validation programs Managing needs requirements verification and validation across the lifecycle Understanding the importance of an integrated collaborative project team and effective communication between team members The INCOSE Needs and Requirements Manual is an essential accompanying reference to the INCOSE Systems Engineering Handbook for novice and seasoned system engineers software engineers project managers product developers tool vendors course developers educators trainers customers suppliers non SE stakeholders as well as researchers and students studying systems engineering and systems design **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 **Seguridad y**

capacitacion universales del R-410A John Tomczyk,Joe Nott,Dick Shaw,2002-03-01 Este libro fue desarrollado para proporcionar al personal de servicio de campo con la formacion necesaria y los conocimientos procticos para realizar con seguridad de servicio en sistemas con R 410A y R 407C Ademos este manual incluye informacion sobre el R 22 la eliminacion el refrigerante adecuado y aplicaciones de los aceites las tacnicas de servicio as como el manejo seguro de R 410A Este manual contiene toda la informacion de que el tecnico tendre que prepararse para su certificacion de seguridad de R 410A La certificacion de seguridad de R 410A se lleva a cabo bajo los auspicios de la membres a de la Coalicion para la Seguridad AC R Tabla de contenidos Cap tulo 1 R 410A y el R 22 Fase de salida Cap tulo 2 Refrigeracion y aire acondicionado Fundamentos Cap tulo 3 Qu mica de refrigerante y las aplicaciones Cap tulo 4 Los aceites de refrigeracion y sus aplicaciones Cap tulo 5 Seguridad Cap tulo 6 Apandice 1 Historia de la refrigeracion **Handbook of Electrical Design Details** Neil

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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 *Accident Prevention Manual for Business & Industry* Gary R. Krieger,2000 Energy Efficiency in Buildings José Manuel

Andújar,Sergio Gómez Melgar,2020-04-28 Buildings are one of the main causes of the emission of greenhouse gases in the world Europe alone is responsible for more than 30% of emissions or about 900 million tons of CO2 per year Heating and air conditioning are the main cause of greenhouse gas emissions in buildings Most buildings currently in use were built with poor energy efficiency criteria or depending on the country and the date of construction none at all Therefore regardless of whether construction regulations are becoming stricter the real challenge nowadays is the energy rehabilitation of existing

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Controls and 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

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