

rheem rpka 035jaz heat pump manual

Rheem RPKA 035JAZ Heat Pump Manual rheem rpka 035jaz heat pump manual is an essential resource for homeowners, HVAC professionals, and maintenance technicians who own or service the Rheem RPKA 035JAZ heat pump. This comprehensive manual provides detailed instructions on installation, operation, troubleshooting, maintenance, and safety precautions necessary to ensure optimal performance and longevity of the unit. Whether you're a DIY enthusiast looking to understand your heat pump better or a professional technician seeking a reliable reference, the Rheem RPKA 035JAZ manual is indispensable for efficient and safe operation.

--- Introduction to Rheem RPKA 035JAZ Heat Pump The Rheem RPKA 035JAZ heat pump is a high-efficiency heating and cooling system designed for residential and light commercial use. Known for its durability, energy efficiency, and advanced technology, this model offers reliable climate control throughout the year. The manual associated with this model covers all aspects necessary for proper installation, operation, and maintenance.

--- Key Features of the Rheem RPKA 035JAZ Heat Pump Understanding the key features of the Rheem RPKA 035JAZ can help users maximize its capabilities: High Seasonal Energy Efficiency Ratio (SEER) and Heating Seasonal Performance Factor (HSPF) Durable cabinet construction with corrosion-resistant coating Quiet operation with sound-dampening technology Advanced inverter technology for variable speed operation Smart thermostat compatibility for enhanced control Simplified maintenance with accessible service panels These features are detailed further within the manual, providing insights into how to optimize the unit's performance.

--- Installation Guidelines from the Rheem RPKA 035JAZ Manual Proper installation is crucial for the efficient operation and longevity of your heat pump. The manual provides step-by-step instructions, safety warnings, and diagrams to assist in correct setup.

2 Site Selection and Preparation Before installation, consider the following: Choose a location with adequate clearance for airflow—typically at least 24 inches¹. on all sides. Ensure the site is level, stable, and protected from extreme weather conditions.² Avoid installing near sources of noise pollution or strong electromagnetic³. interference. Mounting and Positioning The manual emphasizes: Mounting the outdoor unit on a solid, level pad to prevent vibrations and noise. Maintaining proper airflow clearance to ensure efficient heat exchange. Securing the unit firmly to withstand wind and other environmental factors. Electrical Connections For safe operation: Follow local electrical codes and standards.¹.

Connect power supply to the designated terminal board, ensuring proper grounding.2. Use the recommended wire gauge and circuit breaker size as specified in the3. manual. Refrigerant Line Installation The manual details: Proper sizing and insulation of refrigerant lines. Methods for vacuuming and charging the system correctly. Leak testing procedures to ensure system integrity. --- Operating Instructions from the Rheem RPKA 035JAZ Manual After installation, understanding how to operate the heat pump effectively is vital. Thermostat Settings The manual guides users on: Adjusting temperature settings for heating and cooling modes.1. 3 Programming schedules for energy savings.2. Using smart thermostat features if compatible.3. Mode Selection and Usage The heat pump offers various modes: Heat Mode: Provides heating during colder months. Cool Mode: Cools indoor spaces during summer. Auto Mode: Automatically switches between heating and cooling based on indoor temperature. Fan Mode: Circulates indoor air without heating or cooling. Optimizing Energy Efficiency Tips from the manual include: Keeping filters clean and replacing them as needed.1. Ensuring outdoor unit clearance to maintain airflow.2. Regularly scheduling maintenance checks.3. --- Troubleshooting Common Issues with the Rheem RPKA 035JAZ The manual provides troubleshooting procedures for common problems, helping users diagnose and resolve issues promptly. System Won't Turn On Possible causes and solutions: Check power supply and circuit breaker—reset if necessary. Ensure the thermostat is set to the desired temperature and mode. Inspect for blown fuses or tripped safety switches. Insufficient Heating or Cooling Steps to troubleshoot: Verify airflow restrictions—clean filters and unobstructed vents.1. Confirm refrigerant levels are adequate.2. Check for any error codes displayed on the thermostat or control panel.3. 4 Unusual Noises or Vibrations Recommendations: Inspect for loose mounting or components. Ensure fans and motors are operating smoothly. Contact a technician if abnormal sounds persist. Error Codes and Their Meanings The manual lists various error codes, such as: - E1: Indoor thermostat failure. - E2: Refrigerant pressure issue. - E3: Compressor overload. Understanding these codes can expedite repairs or professional service. --- Maintenance Procedures from the Rheem RPKA 035JAZ Manual Regular maintenance is key to ensuring the heat pump operates efficiently for years to come. Routine Checks The manual recommends: Cleaning or replacing air filters every 1-3 months.1. Inspecting the outdoor coil for debris, leaves, or dirt.2. Ensuring the condensate drain is clear and unobstructed.3. Annual Professional Inspection Annual maintenance includes: Checking refrigerant levels and charging if necessary. Inspecting electrical connections and components. Testing system controls and safety devices. Lubricating motors and other moving parts. Cleaning and Replacement Parts The manual specifies: - How to safely clean the outdoor coils. - When and how to replace filters. - Recognizing signs that parts such as capacitors or contactors need replacement. - -- Safety Precautions in the Rheem RPKA 035JAZ Manual Safety is paramount when installing or servicing the heat

pump. 5 Always disconnect power before opening or servicing the unit. Use appropriate personal protective equipment. Follow local electrical and building codes. Ensure proper handling of refrigerants—avoid leaks and exposure. Do not operate the unit if damaged or malfunctioning. Following these precautions prevents accidents and ensures safe operation. --- FAQs About the Rheem RPKA 035JAZ Heat Pump Manual Q1: Where can I find the Rheem RPKA 035JAZ manual? A: The manual is typically available on Rheem's official website, authorized dealers, or included with the product upon purchase. Q2: Is the manual suitable for DIY repairs? A: The manual provides guidance for basic maintenance and troubleshooting; however, complex repairs should be performed by licensed HVAC professionals. Q3: How often should I perform maintenance according to the manual? A: Regular filter cleaning every 1-3 months and an annual professional inspection are recommended. Q4: What should I do if my heat pump displays an error code? A: Refer to the error code list in the manual to diagnose the issue or contact a qualified technician for assistance. --- Conclusion: The Importance of the Rheem RPKA 035JAZ Manual Having access to the Rheem RPKA 035JAZ heat pump manual is crucial for ensuring safe, efficient, and long-lasting operation of your heating and cooling system. It serves as a comprehensive guide covering installation, operation, troubleshooting, and maintenance. By following the instructions and precautions outlined in the manual, users can optimize their heat pump's performance, reduce energy costs, and extend the lifespan of their equipment. Always keep the manual accessible and consult it regularly to stay informed about best practices and updates. --- Meta Description: Discover the comprehensive Rheem RPKA 035JAZ heat pump manual. Learn installation, operation, troubleshooting, and maintenance tips QuestionAnswer Where can I find the official manual for the Rheem RPKA 035JAZ heat pump? You can download the official Rheem RPKA 035JAZ heat pump manual from the Rheem website's support or product manuals section or contact Rheem customer service for assistance. What are the key installation steps for the Rheem RPKA 035JAZ heat pump? The manual provides detailed instructions on site preparation, mounting, electrical wiring, refrigerant connection, and system startup to ensure proper installation and optimal performance. 6 How do I troubleshoot common issues with the Rheem RPKA 035JAZ heat pump? The manual includes troubleshooting guidelines for issues such as insufficient heating, unusual noises, or system errors, guiding users through checks like filter cleanliness, electrical connections, and control settings. What maintenance procedures are recommended for the Rheem RPKA 035JAZ heat pump? Regular maintenance includes cleaning or replacing filters, inspecting refrigerant lines, checking electrical connections, and scheduling professional inspections as outlined in the manual. How do I adjust the settings on the Rheem RPKA 035JAZ heat pump for optimal efficiency? The manual explains how to set the thermostat, configure modes, and optimize system parameters to enhance energy efficiency and comfort levels. What safety precautions should I follow

when servicing the Rheem RPKA 035JAZ heat pump? Safety tips include turning off power before servicing, avoiding refrigerant leaks, and following proper electrical and refrigerant handling procedures as detailed in the manual. Can I install the Rheem RPKA 035JAZ heat pump myself, or should I hire a professional? While the manual provides installation guidelines, professional installation is recommended to ensure safety, compliance with local codes, and optimal operation. Where can I get replacement parts for the Rheem RPKA 035JAZ heat pump? Replacement parts can be purchased through authorized Rheem distributors, service centers, or authorized online retailers as recommended in the manual. Rheem RPKA 035JAZ Heat Pump Manual is an essential resource for homeowners and HVAC technicians seeking to understand, operate, and troubleshoot this advanced heating and cooling system. As a versatile and efficient heat pump, the Rheem RPKA 035JAZ model offers a combination of innovative features and reliable performance, making it a popular choice for energy-conscious consumers. This comprehensive manual provides detailed instructions on installation, operation, maintenance, and troubleshooting, ensuring users can maximize the efficiency and lifespan of their unit. --- Overview of the Rheem RPKA 035JAZ Heat Pump The Rheem RPKA 035JAZ is a high-efficiency heat pump designed to deliver reliable heating and cooling in residential and light commercial settings. It combines advanced technology with user-friendly controls, making it suitable for those seeking both comfort and energy savings. Key Features - High SEER and HSPF Ratings: Ensures energy-efficient operation. - All-Aluminum Weatherproof Coil: Offers durability and corrosion resistance. - Smart Control Compatibility: Can integrate with modern thermostats for enhanced convenience. - Quiet Operation: Designed with sound-reduction features for minimal noise disturbance. - Eco-Friendly Refrigerant: Uses R-410A refrigerant, which is environmentally safer than older refrigerants. --- Rheem RPKA 035JAZ Heat Pump Manual 7 Understanding the Manual: Structure and Content The manual typically comprises several sections aimed at guiding users through every aspect of the heat pump, from installation to maintenance. Main Sections Include: - Safety Precautions: Important warnings and safety tips to prevent accidents. - Installation Instructions: Step-by-step guidance for proper setup. - Operation Guidelines: How to effectively operate the system, including thermostat settings. - Maintenance Procedures: Regular checks and servicing tips. - Troubleshooting Guide: Common issues and solutions. - Technical Specifications: Detailed data about the unit's performance and features. --- Installation Instructions Proper installation is critical for optimal performance and longevity of the Rheem RPKA 035JAZ heat pump. The manual emphasizes safety, compliance with local codes, and adherence to manufacturer recommendations. Key Installation Steps - Site Selection: Choose a location with good airflow, away from obstructions, and protected from extreme weather. - Foundation Preparation: Ensure a level, stable surface for the outdoor unit. - Electrical Connections: Follow wiring diagrams

precisely to connect power and control circuits. - Refrigerant Piping: Use appropriately sized lines, keep lengths within recommended limits, and ensure proper insulation. - Drainage: Install condensate drains to prevent water buildup. - System Charging: Charge refrigerant according to specified guidelines, avoiding overcharging or undercharging. Pros of Proper Installation - Maximizes energy efficiency. - Reduces risk of system failure. - Ensures safety compliance. Common Challenges - Incorrect refrigerant piping can cause poor performance. - Improper electrical wiring may lead to system faults. --- Operation and User Controls Once installed, understanding how to operate the Rheem RPKA 035JAZ efficiently is pivotal. Thermostat Settings - Heating Mode: Set the desired indoor temperature; the system will modulate to maintain comfort. - Cooling Mode: Adjust cooling temperature; the heat pump switches to cooling cycle as needed. - Auto Mode: Allows automatic switching between heating and cooling based on indoor temperature. - Fan Settings: Choose between auto and continuous fan operation. Features Enhancing User Experience - Smart Thermostat Compatibility: Enables remote control via apps. - Timer Functions: Schedule operation times to optimize energy use. - Sleep Mode: Adjusts temperature gradually for night-time comfort. Tips for Efficient Operation - Maintain consistent thermostat settings to avoid frequent cycling. - Use programmable thermostats to reduce energy waste. - Keep filters clean to ensure proper airflow and system efficiency. --- Rheem RpkA 035jaz Heat Pump Manual 8 Maintenance and Care Regular maintenance extends the lifespan of the Rheem RPKA 035JAZ and ensures optimal operation. Routine Maintenance Tasks - Filter Replacement: Check and replace filters every 1-3 months. - Visual Inspection: Look for debris, corrosion, or damage to outdoor components. - Cleaning Coils: Periodically clean the outdoor coil to prevent dirt buildup. - Check Refrigerant Lines: Ensure they are insulated and free from leaks. - Fan and Blower Inspection: Make sure fans operate smoothly without unusual noises. Seasonal Checkpoints - Before winter: Verify heating performance. - Before summer: Ensure cooling efficiency. - Annually: Schedule professional inspection and servicing. Benefits of Proper Maintenance - Improved energy efficiency. - Reduced operational costs. - Prevention of costly repairs. --- Troubleshooting Common Issues The manual provides a comprehensive troubleshooting guide to diagnose and resolve typical problems. Common Problems and Solutions | Issue | Possible Cause | Solution | |-----|-----|-----| | System not starting | Power supply issues or tripped circuit breaker | Check circuit breaker and power connections | | Inadequate heating or cooling | Refrigerant leak or dirty filters | Inspect filters and contact a technician for refrigerant checks | | Unusual noises | Loose parts or debris | Tighten components and remove debris | | System cycling frequently | Thermostat placement or airflow issues | Reposition thermostat and clear airflow obstructions | | Error codes displayed | System fault | Refer to the manual's code guide and contact service if needed | When to Call Professionals -

Refrigerant leaks or recharging. - Electrical system faults. - Compressor or motor failures. - Persistent error codes after troubleshooting. --- Technical Specifications and Performance Data Understanding the technical parameters helps users and technicians assess suitability and performance expectations. Key Specifications - Cooling Capacity: 3.5 tons (approximate, depending on model specifics) - SEER (Seasonal Energy Efficiency Ratio): Up to 16+ for energy savings - HSPF (Heating Seasonal Performance Factor): Up to 9.0 - Refrigerant: R-410A - Voltage: Typically 208/230V - Sound Level: Around 65-70 dB during operation - Dimensions & Weight: As per detailed diagrams in the manual --- Pros and Cons of the Rheem RPKA 035JAZ Pros - High Efficiency: Saves on energy bills. - Durability: All-aluminum coil resists corrosion. - Quiet Operation: Suitable for residential areas. - Environmentally Friendly: Uses eco-friendly refrigerant. - Smart Control Compatibility: Enhances convenience. Cons - Cost: Higher initial investment compared to basic models. - Complex Installation: Requires Rheem RpkA 035jaz Heat Pump Manual 9 professional setup. - Maintenance Needs: Regular upkeep needed for optimal performance. - Size: May require sufficient outdoor space for installation. --- Conclusion: Is the Rheem RPKA 035JAZ Manual Worth Using? The Rheem RPKA 035JAZ heat pump manual is an invaluable resource that empowers users to operate, maintain, and troubleshoot their system effectively. Its detailed instructions ensure safe and proper installation, while the troubleshooting guides help resolve common issues without unnecessary service calls. The manual's comprehensive coverage makes it a trusted companion for both homeowners eager to maximize their investment and technicians aiming for precise and efficient system management. In essence, owning a Rheem RPKA 035JAZ is a commitment to energy-efficient comfort, and the manual facilitates this by providing clarity and guidance at every step. Proper adherence to the manual's instructions guarantees that users will enjoy reliable, quiet, and cost-effective heating and cooling for years to come. Rheem RPKA 035JAZ, heat pump manual, Rheem heat pump guide, RPKA 035JAZ specifications, Rheem heat pump troubleshooting, RPKA 035JAZ installation, Rheem heat pump parts, RPKA 035JAZ user manual, Rheem heat pump maintenance, RPKA 035JAZ operation instructions

Heat Pump SystemsHeat Pump Operation, Installation, ServiceHeat Pump SystemsHeat PumpsHeat PumpsHeat Pumps for Energy Efficiency and Environmental ProgressTroubleshooting and Servicing Heat PumpsHeat PumpsHeat Pump TechnologyHeat PumpsHeat Pump Technology for Saving EnergyHeat Pumps for Cold Climate HeatingHeat Pump CentreTranscritical CO2 Heat PumpGeothermal Heat PumpsGround-Source Heat PumpsHeating and Cooling with Ground-Source Heat Pumps in Cold and Moderate ClimatesHeat Pump TechnologyHeat PumpsHeat Pump Technology Harry J. Sauer (Jr.) Randy F. Petit, Sr. International Energy Agency Kazimierz Brodowicz R. D. Heap J. Bosma Richard Jazwin Takamoto Saito Norman W. Lord United States.

Department of Energy M. J. Collie Hui Huang IEA Heat Pump Centre Xin-rong Zhang Karl Ochsner Ioan Sarbu Vasile Minea Billy C. Langley Walter Grassi Hans Ludwig Von Cube
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a comprehensive introduction to the fundamentals performance design cost and selection of heat pumps
utilizes life cycle costing to determine operating and owning costs examines load and energy
estimating pump design and more reviews the historical evolution of heat pump technology and
demonstrates the design pitfalls of early models

this program is designed to provide students and technicians with a comprehensive overview of the heat
pump system its operation and principles heat pumps operation installation and service is designed to
provide the reader with a comprehensive overview of heat pump systems the manual covers basic
principles of operation system components air flow defrost methods balance point auxiliary electric
heat electrical control wiring refrigerant piping installation refrigerant charging troubleshooting
dual fuel systems and an introduction to geothermal systems the intent of the book is to offer
students and technicians information to build upon in order to enhance their knowledge of the air
conditioning and heating field and more specifically heat pumps before installing or servicing a heat
pump system the technician must have proper training and knowledge of air conditioning refrigeration
theory principles and operation with today's energy demands and costs soaring there is a tremendous
need for highly efficient equipment these systems pose new demands for installers and service
technicians new heat pump systems with single dual and variable capacity are being sold which requires
trained technicians with the ability to install service and maintain this equipment

heat pumps and related technology are in widespread use in industrial processes and installations this
book presents a unified comprehensive and systematic treatment of the design and operation of both

compression and sorption heat pumps heat pump thermodynamics the choice of working fluid and the characteristics of low temperature heat sources and their application to heat pumps are covered in detail economic aspects are discussed and the extensive use of the exergy concept in evaluating performance of heat pumps is a unique feature of the book the thermodynamic and chemical properties of certain new working fluids and sorbents are also explored there are considerable pressures on those involved in the use of heat pumps to achieve energy savings and this presents a challenging task in today's industrial climate this book provides many examples of such energy savings such as the use of large heat pump units utilising various low temperature industrial waste heat sources heat pumps is illustrated throughout by specific solutions as applied worldwide the subject area is approached logically covering both design and calculation methods and is oriented towards the needs of the process user the treatment given to the selection of working fluids should be compulsory reading chemical engineer june 1994

the 70 papers collected in this volume present an up to date review of the trends in heat pump technology the heat pump is reviewed both as being part of a more comprehensive system and as a refined device providing energy and greenhouse gas emission reductions its implementation in a system or process must be carefully considered at an early stage of design or development and process integration is discussed in detail as a valuable tool for industry the heat pump is proving to be a highly effective energy conserving tool particularly when designed and used as an integral part of a system environmental benefits are gained when energy is conserved and heat pumps can make a major contribution in this area however some heat pumps use working fluids which are environmentally unfriendly and the progress that has been made in the field of alternative refrigerants is reported on the volume will prove an indispensable reference source on the wide ranging applications that have been developed since the last international conference on such topics as heat pump field trials pilot plants and development programmes

this unique field guide discusses in detail the various aspects of heat pump selection installation and service this book covers basic heat pump operation including a review of the refrigeration cycle heat pump configurations four way valves electrical schematics defrost systems controls and accessories the scroll compressor and service and troubleshooting

it has long been recognized that realizing the potential for energy conservation and diversification by using heat pumps offers considerable benefits to the environment important work on more efficient

and ozone friendly working fluids will further enhance the case for greater support of heat pump research this book contains the proceedings of the third international energy agency conference held in tokyo in march 1990 the main theme of the conference heat pumps solving energy and environmental challenges is explained in great depth covering not only technical characteristics but economic factors and the role of government and other bodies in promoting research and the uses of all types of heat pumps are also fully considered as well as publishing the papers presented at the meeting the book also contains the extensive complementary poster sessions from the conference

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air source heat pumps are mainly used for space heating and have the advantages of environmental protection energy saving and comfort written by a leading heat pump technology expert this book summarizes the research and applications of variable volume ratio two stage vapor compression air source heat pump technology and its use in cold climate regions this book can be used for reference by scientific researchers and engineers engaged in research on air source heat pump technology product development and popularization and by energy management and policy researchers it will also be of value to undergraduate and graduate students studying these areas of technology

a timely and comprehensive introduction to co2 heat pump theory and usage a comprehensive introduction of co2 application in heat pump authored by leading scientists in the field co2 is a hot topic due to concerns over global warming and the greenhouse effect its disposal and application has attracted considerable research and governmental interest explores the basic theories devices systems and cycles and real application designs for varying applications ensuring comprehensive coverage of a current topic co2 heat transfer has everyday applications including water heaters air conditioning systems residential and commercial heating systems and cooling systems

geothermal heat pumps is the most comprehensive guide to the selection design and installation of geothermal heat pumps available this leading manual presents the most recent information and market developments in order to put any installer engineer or architect in the position to design select and install a domestic geothermal heat pump system internationally respected expert karl ochsner presents the reasons to use heat pumps introduces basic theory and reviews the wide variety of available heat pump models

ground source heat pumps presents the theory and some of the most recent advances of gshps and their implementation in the heating cooling system of buildings the authors explore the thermodynamic cycle with calculation operation regimes and economic indicators and ghg emissions of a vapor compression heat pump they go on to examine substitution strategies of non ecological refrigerants and types of compressors and heat pumps before delving into the different gshp systems as well as their compared economic energy and environmental performances using classical and optimized adjustment for various operating modes surface water heat pumps and ground water heat pumps are covered and special focus is given to both vertical and horizontal ground coupled heat pump systems for which modelling and simulation is discussed and experimental systems are described due to its advanced approach to the subject this book will be especially valuable for researchers graduate students and academics and as reference for engineers and specialists in the varied domains of building services explores fundamentals and state of the art research including ground coupled heat pump gchp systems includes performance assessment and comparison for different types of gshp numerical simulation models practical applications of gshps with details on the renewable energy integration information on refrigerants and economic analysis

heating and cooling with ground source heat pumps in cold and moderate climates fundamentals and basic concepts covers fundamentals and design principles of vertical and horizontal indirect and direct expansion closed loop as well as ground and surface water ground source heat pump systems it explains the thermodynamic aspects of mechanical and thermochemical compression cycles of geothermal heat pumps and describes the energetic economic and environmental aspects associated with the use of ground source heat pump systems for heating and cooling residential and commercial institutional buildings in moderate and cold climates based on the author s more than 30 years of technical experience focuses on ground source heat pump technologies that can be successfully applied in moderate and cold climates discusses technical aspects as well as the most common and uncommon application fields of basic system configurations this work is aimed at designers of hvac systems as well as geological mechanical and chemical engineers implementing environmentally friendly heating and cooling technologies for buildings

designed as a text or a reference this book covers the practical fundamentals recommended service and startup procedures for heat pump systems the straightforward presentation and thorough coverage regarding heat pump systems provides users with the knowledge and confidence necessary to properly install and service heat pump systems the reference explains all information needed to design install

service and maintain heat pump systems including water source heat pump systems troubleshooting startup and standard service procedures and representative wiring diagrams for service and installation technicians service managers instructors and designers

the text describes the main features of currently available heat pumps focusing on system operation and interactions with external heat sources in fact before choosing a heat pump several aspects must be assessed in detail the actual climate of the installation site the building's energy requirements the heating system the type of operation etc after discussing the general working principles the book describes the main components of compression machines for ehps ghps and co2 heat pumps it then addresses absorption heat pumps and provides additional details on the behavior of two fluid mixtures the book presents a performance comparison for the different types helping designers choose the right one for their needs and discusses the main refrigerants notes on helpful additional literature websites and videos also concerning relevant european regulations round out the coverage this book will be of interest to all engineers and technicians whose work involves heat pumps it will also benefit students in energy engineering degree programs who want to deepen their understanding of heat pumps

heat pump technology discusses the history underlying concepts usage and advancements in the use of heat pumps the book covers topics such as the applications and types of heat pumps thermodynamic principles involved in heat pumps such as internal energy enthalpy and exergy and natural heat sources and energy storage also discussed are topics such as the importance of the heat pump in the energy industry heat pump designs and systems the development of heat pumps over time and examples of practical everyday uses of heat pumps the text is recommended for those who would like to know more about heat pumps its developments over time and its varying uses

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