

PA5S
Single-Stage Air Conditioner
with R-410A Refrigerant
1-1/2 To 5 Tons

Product Data



This unit has been designed utilizing R-410A refrigerant. The environmentally sound refrigerant allows you to make a responsible decision in the protection of the earth's ozone layer.

NOTE: Ratings contained in this document are subject to change at any time. Always refer to the AHRI directory (www.ahridirectory.org) for the most up-to-date ratings information.

STANDARD FEATURES

| Features | 18 | 24 | 30 | 36 | 42 | 48 | 48 | 55 | 60 | 64 |
|--|-------------|-------------|-------------|-------------|-------------|-----------|-------------|-----------|-------------|---------|
| R-410A Refrigerant | X | X | X | X | X | X | X | X | X | X |
| SEER2 (Range depending on indoor combination) | 14.3 - 16.5 | 14.3 - 16.5 | 14.3 - 16.5 | 14.3 - 16.5 | 13.8 - 15.5 | 14.3 - 16 | 13.8 - 15.5 | 14 - 16.5 | 13.8 - 15.2 | 14 - 16 |
| Scroll Compressor | X | X | X | X | X | X | X | X | X | X |
| Field Installed Filter Drier | X | X | X | X | X | X | X | X | X | X |
| Front Sealing Service Valves | X | X | X | X | X | X | X | X | X | X |
| Internal Pressure Relief Valve | X | X | X | X | X | X | X | X | X | X |
| Internal Thermal Overload | X | X | X | X | X | X | X | X | X | X |
| Long Line Capability | X | X | X | X | X | X | X | X | X | X |
| Low Ambient Capability with Kit | X | X | X | X | X | X | X | X | X | X |

Features / Benefits

Efficiency

- 13.8 - 16.5 SEER2 (14 - 16.0 SEER2) / 11.2 - 14.0 EER2 (11.2 - 14.5 EER2)
- Indoor air quality accessories available

Reliability

- R-410A refrigerant - environmentally sound, won't deplete the ozone layer and has lifetime service cost.
- Scroll compressor
- Internal pressure relief valve
- Internal thermal overload
- Filter drier

Durability

Protection Package:

- Solid, durable sheetmetal construction
- Dense wire coil guard

Applications

- Long-line - up to 250 feet (76.20 m) total equivalent length, up to 200 feet (60.96 m) condenser above evaporator, or up to 80 ft. (24.4 m) evaporator above condenser (See Long Line Guide for more information.)
- Low ambient cooling (down to 0°F / -18°C) with approved low ambient accessory kit.

Payne Hvac Manual

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Energy Management Handbook, Fifth Edition Steve Doty, Wayne C. Turner, 2004-09-22 Originally published two decades ago the Energy Management Handbook has become recognized as the definitive stand alone energy manager's desk reference used by thousands of energy management professionals throughout the industry Known as the bible of energy management it has helped more energy managers reach their potential than any other resource Completely revised and updated the fifth edition includes new chapters on building commissioning and green buildings You'll find in depth coverage of every component of effective energy management including boiler and steam system optimization lighting and electrical systems HVAC system performance waste heat recovery cogeneration thermal energy storage energy management control systems energy systems maintenance building envelope industrial insulation indoor air quality energy economic analysis energy procurement decision making energy security and reliability and overall energy management program organization You'll also get the latest facts on utility deregulation energy project financing and in house vs outsourcing of energy services The energy industry has change radically since the initial publication of this reference over 20 years ago Looking back on the energy arena one thing becomes clear energy is the key element that must be managed to ensure a company's profitability The Energy Management Handbook Fifth Edition is the definitive reference to guide energy managers through the maze of changes the industry has experienced Official Manual, State of Missouri, 2007

Energy Management Handbook Stephen A. Roosa, Steve Doty, Wayne C. Turner, 2020-12-17 This comprehensive handbook is recognized as the definitive stand alone energy manager's desk reference used by tens of thousands of professionals throughout the energy management industry This new ninth edition includes new chapters on energy management controls systems compressed air systems renewable energy and carbon reduction There are major updates to chapters on energy auditing lighting systems boilers and fired systems steam and condensate systems green buildings waste heat recovery indoor air quality utility rates natural gas purchasing commissioning financing and performance contracting and much more with numerous new and updated illustrations charts calculation procedures and other helpful working aids 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 buildings It is currently a priority to reduce or ideally eliminate the waste of energy in buildings and at the same time supply the necessary energy through renewable sources The first can be achieved by improving the architectural design construction methods and materials used as well as the efficiency of the facilities and systems the second can be achieved

through the integration of renewable energy wind solar geothermal etc in buildings In any case regardless of whether the energy used is renewable or not the efficiency must always be taken into account The most profitable and clean energy is that which is not consumed New Hampshire Register and Legislative Manual ,1983 ASHRAE Handbook ,1987

Mechanical Engineer's Reference Book Edward H. Smith,2013-09-24 Mechanical Engineer s Reference Book 12th Edition is a 19 chapter text that covers the basic principles of mechanical engineering The first chapters discuss the principles of mechanical engineering electrical and electronics microprocessors instrumentation and control The succeeding chapters deal with the applications of computers and computer integrated engineering systems the design standards and materials properties and selection Considerable chapters are devoted to other basic knowledge in mechanical engineering including solid mechanics tribology power units and transmission fuels and combustion and alternative energy sources The remaining chapters explore other engineering fields related to mechanical engineering including nuclear offshore and plant engineering These chapters also cover the topics of manufacturing methods engineering mathematics health and safety and units of measurements This book will be of great value to mechanical engineers *New Hampshire Register, State Yearbook and Legislative Manual* ,1984 The Heating and Air Conditioning Journal ,1978 **Practical Guide to Energy Management for Facilities Engineers and Managers** Thomas E. Mull,2001 This guide examines practical applications and presents examples for conserving energy and reducing energy costs in commercial institutional and industrial plants and facilities Registered Mechanical Engineer Mull provides an introduction to the basic scientific principles and economics of energy management Then commonly used energy consuming equipment and systems are profiled Some of the topics covered include steam and hydronic boilers and pumping chilled water air distribution HVAC electrical lighting compressed air refrigeration heat recovery cogeneration energy management and thermal storage systems c Book News Inc **Modern Geothermal HVAC Engineering and Control Applications** Jay Egg,Greg Cuniff,Carl Orio,2013-08-06 With a focus on market needs and customer goals this practical guide explains how to realize the full potential of geothermal HVAC by integrating hydronic systems and controls at maximum capacity This book explains how to engineer and specify geothermal HVAC for building projects in varying geographic regions Typical details on control parameters are provided By using the proven methods in this innovative resource you will be able to develop highly efficient long lasting and aesthetically pleasing geothermal HVAC systems Back cover Maine Register, State Year-book and Legislative Manual ,1995 *Advanced Anomaly Detection Technologies and Applications in Energy Systems* Tinghui Ouyang,Yusen He,Xun Shen,Zhenhao Tang,Yahui Zhang,2025-02-17 Anomaly detection is an important topic which has been well studied in diverse research areas and application domains It generally involves detection of abnormal data unhealthy status fault diagnosis and can be helpful to guarantee industrial systems stability security and economy As development of intelligent industries and sensor systems grows large amounts of data become easily available and challenges arise in industrial systems anomaly detection One

typical case is the study within energy related systems like thermal energy renewable energy study e g wind energy photovoltaic electric vehicles and so on These systems can involve various data formats and more complex data structures making anomaly data detection a challenge Currently under the development of deep learning and big data analytics many promising results have been achieved in energy systems anomaly data detection However many challenging problems remain unsolved due to the complex nature of energy industries New techniques and advanced engineering applications on anomaly detection in energy systems still appeal to a wide range of scholars and industries Energy Abstracts for Policy Analysis,1986 **Forthcoming Books** Rose Arny,2002-02 *Actual Specifying Engineer* ,1973 **Bibliographic Guide to Technology** New York Public Library. Research Libraries,1978 *Lawyers Desk Reference* ,2001 *Professional Builder* ,2008 **No Business as Usual** Terence Knott,Terry Knott,1996

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Table of Contents Payne Hvac Manual

1. Understanding the eBook Payne Hvac Manual
 - The Rise of Digital Reading Payne Hvac Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Payne Hvac Manual
 - 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 Payne Hvac Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Payne Hvac Manual
 - Personalized Recommendations
 - Payne Hvac Manual User Reviews and Ratings
 - Payne Hvac Manual and Bestseller Lists
5. Accessing Payne Hvac Manual Free and Paid eBooks
 - Payne Hvac Manual Public Domain eBooks

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