

INSTALLER'S GUIDE

ALL phases of this installation must comply with NATIONAL, STATE AND LOCAL CODES

Heat Pumps

Models: 4A6H4

IMPORTANT — This Document is customer property and is to remain with this unit. Please return to service information pack upon completion of work.

These instructions do not cover all variations in systems nor provide for every possible contingency to be met in connection with installation. All phases of this installation must comply with NATIONAL, STATE AND LOCAL CODES. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to your installing dealer or local distributor.

A. GENERAL

⚠ WARNING: This information is intended for use by individuals possessing adequate backgrounds of electrical and mechanical experience. Any attempt to repair a central air conditioning product may result in personal injury and or property damage. The manufacturer or seller cannot be responsible for the interpretation of this information, nor can it assume any liability in connection with its use.

The following instructions cover 4A6H3 Heat Pump Units.

NOTE: AMERICAN STANDARD HAS ALWAYS RECOMMENDED INSTALLING AMERICAN STANDARD APPROVED MATCHED INDOOR AND OUTDOOR SYSTEMS.

THE BENEFITS OF INSTALLING APPROVED INDOOR AND OUTDOOR SPLIT SYSTEMS ARE MAXIMUM EFFICIENCY, OPTIMUM PERFORMANCE AND THE BEST OVERALL SYSTEM RELIABILITY.

⚠ WARNING: These units use R-410A refrigerant which operates at 50 to 70% higher pressures than R-22. Use only R-410A approved service equipment. Refrigerant cylinders are painted a "Rose" color to indicate the type of refrigerant and may contain a "dip" tube to allow for charging of liquid refrigerant into the system. All R-410A systems use a POE oil that readily absorbs moisture from the atmosphere. To limit this "hygroscopic" action, the system should remain sealed whenever possible. If a system has been open to the atmosphere for more than 4 hours, the compressor oil must be replaced. Never break a vacuum with air and always change the driers when opening the system for component replacement. For specific handling concerns with R-410A and POE oil, reference Retrofit Bulletin SSC-APG011-EN.

Check for transportation damage after unit is uncrated. Report promptly, to the carrier, any damage found to the unit.

⚠ CAUTION

UNIT CONTAINS R-410A REFRIGERANT!

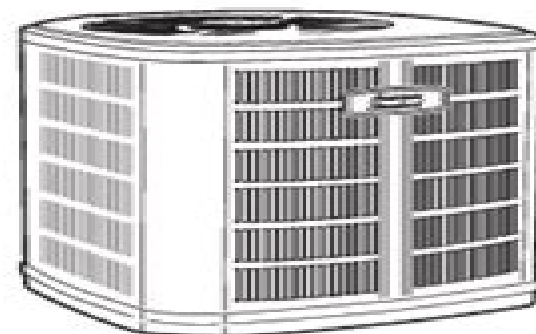
R-410A OPERATING PRESSURE EXCEEDS THE LIMIT OF R-22. PROPER SERVICE EQUIPMENT IS REQUIRED. FAILURE TO USE PROPER SERVICE TOOLS MAY RESULT IN EQUIPMENT DAMAGE OR PERSONAL INJURY.

SERVICE

USE ONLY R-410A REFRIGERANT AND APPROVED POE COMPRESSOR OIL

1

5 FT. ABOVE UNIT-UNRESTRICTED



To determine the electrical power requirements of the unit, refer to the nameplate of the unit. The electrical power available must agree with that listed on the nameplate.

The Heat Pump has been designed and manufactured to withstand and operate in severe winter conditions. However, there are precautionary steps which should be taken at the time of installation which will help assure the efficient operation of the unit.

Since the manufacturer has a policy of continuous product and product data improvement, it reserves the right to change design and specifications without notice.

American Standard Heat Pump Owners Manuals

**United States. National Bureau of
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American Standard Heat Pump Owners Manuals:

ASHRAE Handbook & Product Directory American Society of Heating, Refrigerating and Air-Conditioning Engineers,1971 Building Materials and Structures Report ,1938 Building Materials and Structures Report United States. National Bureau of Standards,1959 *Hoover's Handbook of American Business* ,1998 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1960 Includes Part 1 Number 2 Books and Pamphlets Including Serials and Contributions to Periodicals July December **Selected Bibliography on Building Construction and Maintenance** United States. National Bureau of Standards,Louise D. C. Nobel,1954 **HVAC Pump Handbook, Second Edition** James B. Rishel,Thomas H. Durkin,Ben L. Kincaid,2010-06-14 Design install and maintain HVAC pumps Filled with case studies and problem solving sections this reference offers HVAC engineers and technicians concrete methods for achieving efficient operation in utilizing the latest digital electronic technologies Updated to include the latest information ranging from codes to the electronic evolution in HVAC pumping systems The American Gas Light Journal ,1905

Report of Prime Movers Committee, Technical National Section ... Presented at the ... Convention of the National Electric Light Association National Electric Light Association. Prime Movers Committee,1929 *Refrigerating Engineering* ,1928 Vols 1 17 include Proceedings of the 10th 24th 1914 28 annual meeting of the society **Western Machinery and Steel World** ,1919 Metal Trades ,1919 The American Architect Specification Manual ,1919 *ASHRAE Handbook, 1981 Fundamentals* American Society of Heating, Refrigerating and Air-Conditioning Engineers,1981 Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office Library of Congress. Copyright Office,1966 Domestic Engineering ,1972 **Selected Bibliography on Building Construction and Maintenance** Edith R. Meggers,1959 *Moody's OTC Unlisted Manual* ,1994 **1993 ASHRAE Handbook** American Society of Heating, Refrigerating and Air-Conditioning Engineers,1993 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1964

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Answers For the electronic transition from $n = 3$ to $n = 5$ in the hydrogen atom. a) Calculate the energy. b) Calculate the wavelength (in nm). Chapter 25 Nuclear Chemistry 25.2 Nuclear Transformations Sep 5, 2017 — Nuclear Chemistry Targets: 1.I CAN Utilize appropriate scientific vocabulary to explain scientific concepts. 2.I CAN Distinguish between fission ... Matter and Change • Chapter 25 When a radioactive nucleus gives off a gamma ray, its atomic number increases by. 12. The three types of radiation were first identified by Ernest Rutherford. Nuclear Chemistry - Lake Central High School Jul 12, 2015 — What is the change in atomic number after the alpha decay? It decreases by 2. b. ... answer the following questions. **Nuclear** ... 25.2 Nuclear Transformations | Lecture notes Chemistry These nuclei decay by turning a neutron into a proton to emit a beta particle (an electron) from the nucleus. This process is known as beta emission. It ... 60 s - 1 min SECTION 25.2 NUCLEAR TRANSFORMATIONS. 1. Write a nuclear equation for the following radioactive processes. a. alpha decay of francium-208 $^{208}\text{Fr} \rightarrow$ b ... Beginning & Intermediate Algebra (5th Edition) NOTE: This is a standalone book. Elayn Martin-Gay's developmental math textbooks and video resources are motivated by her firm belief that every student can ... Beginning and Intermediate Algebra 5th Edition Beginning and Intermediate Algebra 5th Edition. 4.1 4.1 out of 5 stars 6 Reviews ... Elayn Martin-Gay. 4.3 out of 5 stars 561. Hardcover. 64 offers from \$14.07. Beginning & Intermediate Algebra (5th Edition) Beginning & Intermediate Algebra (5th Edition) by Martin-Gay, Elayn - ISBN 10: 0321785126 - ISBN 13: 9780321785121 - Pearson - 2012 - Hardcover. Martin-Gay, Beginning & Intermediate Algebra Beginning & Intermediate Algebra, 5th Edition. Elayn Martin-Gay, University ... Elayn Martin-Gay's developmental math textbooks and video resources are ... Beginning and Intermediate Algebra | Buy | 9780321785121 Elayn Martin-Gay. Every textbook comes with a 21-day "Any Reason" guarantee. Published by Pearson. Beginning and Intermediate Algebra 5th edition solutions ... beginning and intermediate algebra 5th edition Algebra. Publication Name. Beginning & Intermediate Algebra. Author. Elayn Martin-Gay. Level. Intermediate. Category. Books & Magazines > Textbooks, Education ... Beginning and Intermediate Algebra | Rent | 9780321785862 Rent □ Beginning and Intermediate Algebra 5th edition (978-0321785862) today, or search our site for other □ textbooks by Elayn Martin-Gay. beginning and intermediate algebra 5th edition 325114606480. Publication Name. Beginning & Intermediate Algebra. Subject Area. Algebra. Type. Workbook. Author. Elayn Martin-Gay. Level. Intermediate. Category. Beginning and Intermediate Algebra Fifth Edition by Elayn ... Beginning and Intermediate Algebra Fifth Edition (5th Edition). by Elayn Martin-Gay. Hardcover, 1032 Pages, Published 2012. ISBN-10: 0-321-78512-6 / 0321785126 Beginning & Intermediate Algebra, 5th edition (STRN0011) SKU: STRN0011 Author: Elayn Martin-Gay Publication Date: 2013 by Pearson Education, Inc. Product Type: Book Product ISBN: 9780321785121