

Section 15700 – Mechanical HVAC

Capacity Range: 2.5 to 3 Tons Nominal

Mitsubishi Model Number: PKA-A-FA (wall-mounted) / PUZ-HA30/36NHA Hyper-heat type Heat Pump System – Wired wall-mounted controller

Part 1 – General

1.1 System Description

The Heat Pump system shall be a Mitsubishi Electric split system with Hyper Heat and Variable Speed Inverter Compressor technologies. The system shall consist of a wall-mounted indoor section with wired, wall mounted controller and a horizontal discharge, single-phase Hyper Heat outdoor unit.

1.2 System with wired wall mounted controller

System Model Numbers	
Indoor Units	Outdoor Units
PKA-A30FA	PUZ-HA30NHA
PKA-A36FA	PUZ-HA36NHA

1.3 Quality Assurance

The units shall be tested by a Nationally Recognized Testing Laboratory (NRTL) and shall bear the ETL label.

All wiring shall be in accordance with the National Electrical Code (N.E.C.).

The units shall be rated in accordance with Air-conditioning Refrigeration Institute's (AHRI) Standard 210 / 240 and bear the AHRI Certification label.

The units shall be manufactured in a facility registered to ISO 9001 and ISO 14001, which are a set of standards applying to product and manufacturing quality and environmental management and protection set by the International Standards Organization (ISO)

A dry air holding charge shall be provided in the indoor section.

The outdoor unit shall be pre-charged with R-410a refrigerant for 100 feet of refrigerant tubing. System efficiency shall meet or exceed 16.0 SEER for 36,000 BTU/h and 14.5 SEER for 30,000 BTU/h.

1.4 Delivery, Storage and Handling

Unit shall be stored inside and carefully handled according to the manufacturer's recommendations.

The wall mounted remote controller shall be shipped inside the carton and packaged with the indoor unit and shall be able to withstand 105°F storage temperatures and 95% relative humidity without adverse effect.

Part 2 – Warranty

2.1 The units shall have a manufacturer's parts and defects warranty for a period one (1) year from date of installation. The compressor shall have an extended warranty of 6 years from date

Hvac Guide Specifications

David Kirk



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Construction Specifications Writing Mark Kalin, Robert S. Weygant, Harold J. Rosen, John R. Regener, 2011-09-13 Updated edition of the comprehensive rulebook to the specifier's craft With this latest update Construction Specifications Writing Sixth Edition continues to claim distinction as the foremost text on construction specifications This mainstay in the field offers comprehensive practical and professional guidance to understanding the purposes and processes for preparation of construction specifications This new edition uses real world document examples that reflect current writing practices shaped by the well established principles and requirements of major professional associations including the American Institute of Architects AIA the Engineers Joint Contract Documents Committee EJCDC and the Construction Specifications Institute CSI Also included are guidelines for correct terminology product selection organization of specifications according to recognized CSI formats and practical techniques for document production Fully revised throughout this Sixth Edition includes Updates to MasterFormat 2004 as well as SectionFormat PageFormat 2007 and Uniformalt End of chapter questions and specification writing exercises Samples of the newly updated construction documents from the AIA New chapter on sustainable design and specifications for LEED projects Updated information on the role of specifications in Building Information Modeling BIM

Handbook of Heating, Ventilation, and Air Conditioning Jan F. Kreider, 2000-12-26 The building industry accounts for about 25 percent of the US gross national product through the design construction operation and maintenance of commercial institutional and residential buildings The Handbook of Heating Ventilation and Air Conditioning provides a current comprehensive review of the latest procedures and trends in the industry It combines practice and theory systems and control and modern methods and technologies to provide in one volume all of the design and operation information needed by HVAC engineers Through a link on the CRC Web site owners of the handbook can access new material periodically posted by the author

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discussed 1 ARCHITECTURAL 2 HVAC SYSTEMS 3 PLUMBING AND GAS 4 ELECTRICAL SYSTEMS 5 FIRE PROTECTION 6 COMMUNICATION SYSTEMS 7 TRANSPORTATION LOGISTICS AND WAYFINDING 8 INTERSTITIAL BUILDING SYSTEMS 9 TELECOMMUNICATION AND CABLING SYSTEMS 10 UNIVERSAL X RAY ROOM 11 SEISMIC *HVAC Equipment Specifications: Guide for Engineers and Designers* Charles Nehme, Heating Ventilation and Air Conditioning HVAC systems play a crucial role in ensuring indoor comfort air quality and energy efficiency across various residential commercial and industrial applications As buildings and infrastructure evolve with advanced technologies the need for precise and well defined HVAC equipment specifications has never been greater This guide aims to provide a structured approach to writing technical HVAC equipment specifications ensuring clarity compliance with industry standards and alignment with project requirements By detailing essential parameters such as performance materials efficiency ratings and installation guidelines these specifications serve as a critical reference for engineers contractors and procurement teams Well crafted specifications not only facilitate smooth project execution but also help in selecting the most suitable equipment ensuring long term reliability and optimizing system performance Whether for new installations retrofits or system upgrades this guide provides a practical framework for specifying HVAC components with accuracy and professionalism By adhering to the principles outlined here professionals can enhance system design streamline procurement processes and achieve sustainable cost effective HVAC solutions Publications of the National Institute of Standards and Technology ... Catalog National Institute of Standards and Technology (U.S.),1991 **An Introduction to Specifications for Masonry Construction for Professional Engineers** J. Paul Guyer, P.E., R.A.,2024-08-06 Introductory technical guidance for Professional Engineers and construction managers interested in masonry construction for buildings and related infrastructure **Congressional Record** United States. Congress,1993 The Architect's Handbook of Professional Practice Joseph A. Demkin,The American Institute of Architects,2001 CD ROM contains Samples of all AIA contract documents *Building Energy Management Systems* Geoff Levermore,2013-07-04 Energy management systems are used to monitor building temperature inside and outside buildings and control the boilers and coolers Energy efficiency is a major cost issue for commerce and industry and of growing importance on university syllabuses Fully revised and updated this text considers new developments in the control of low energy and HVAC systems and contains two new chapters Written for practising engineers essential for control engineers and energy managers in addition to being essential reading for under postgraduate courses in building services and environmental engineering **The Gypsum Construction Handbook** USG,2014-01-27 The tried and true Gypsum Construction Handbook is a systematic guide to selecting and using gypsum drywall veneer plaster tile backers ceilings and conventional plaster building materials A widely respected training text for aspiring architects and engineers the book provides detailed product information and efficient installation methodology The Seventh Edition features updates in gypsum products including ultralight panels glass mat panels paperfaced plastic bead and ultralightweight joint compound and

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