

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

Geoff Levermore



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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

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