



# CITYMULTI® VRF



When it comes to providing personalized comfort in every room of every building, Mitsubishi Electric Trane HVAC US is here to help. No other company is as committed to creating environmentally friendly and affordable technology that's ideal for today's home and work environments, no matter the size or shape.



#### **QUALITY**

Mitsubishi Electric is consistently recognized by HVAC contractors as a preferred brand of ductless and variable refrigerant flow (VRF) systems, with the highest quality rating among manufacturers. With over 30 years of industry leadership, we are proud to be a leading brand of VRF technology.



#### **PERFORMANCE**

We deliver a complete range of compact and powerful heat pump and heat recovery products that are also intelligent, quiet, and use energy efficiently.



#### **TRAINING**

We provide comprehensive product and applications instruction through our regional training centers across the United States and Mexico.



#### SUPPORT

We offer the most extensive network of experienced VRF zoning system professionals to provide project consultation in the areas of application planning and design, plus installation and start-up. Post installation, we provide support, including user training and operation monitoring.



#### **GROWTH**

Our products and services provide opportunities for architects, engineers, distributors and contractors to enhance and grow their businesses. With nearly 30 years of consistent growth, we continue to lead the ductless and VRF market's acceleration.



#### **ECO CHANGES**

Eco Changes is our commitment to continuously strive for a greener tomorrow through cutting-edge global environmental technologies and outstanding strength in manufacturing.

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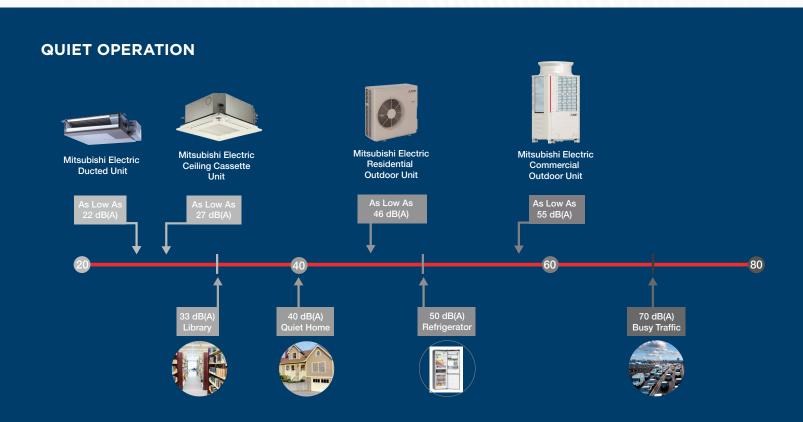


## WHY CITY MULTI VRF SYSTEMS?

As a global leader in VRF zoning solutions, you can trust that you're receiving the most advanced technology and dedicated support in the industry.

- Ultra-Efficient Design to ensure total comfort in any commercial space
- Advanced INVERTER Technology varies the speed of the compressor for more efficient cooling and heating
- Complete Zoning Control so you heat and cool the areas that need it without paying for the ones that don't
- Design Flexibility for any application, from modern designs to historic renovations

- Complete Product Family to handle every job from the smallest spaces to the largest buildings and campuses
- Sustainable Technology that contributes to Leadership in Energy & Environmental Design (LEED) credits and saves energy
- Quiet Operation that's even softer than a human whisper
- Simultaneous Operation to heat and cool with just two refrigerant pipes



## **OUTDOOR UNITS**

Mitsubishi Electric offers an extensive lineup of air-source and water-source units that can be tailored to any application's requirements.

#### **HEAT RECOVERY**



R2-Series / H2i® R2-Series (Air-Source)



Y-Series / H2i® Y-Series (Air-Source)



S-Series / H2i® S-Series (PUMY) (Air-Source)



**WR2-Series** (Water-Source)



**WY-Series** (Water-Source)

## **INDOOR UNITS**

Mitsubishi Electric's wide range of indoor units enables you to choose the style and size that meets your requirements for layout and design.



PLFY-EP-NEMU (33"x33") PLFY-P-NFMU (22"x22") Ceiling Cassette (4-way)



**PMFY**Ceiling Cassette (1-way)



**PCFY** Ceiling-Suspended



**PVFY**Multi-position Air Handler



**PKFY**Wall-Mounted



PWFY-NMU-E2-AU (HEX)
PWFY-NMU-E-BU (Booster)
Hydronic Heat Exchanger



PEFY-P-NMSU Low Profile
PEFY-P-NMAU Medium Static
PEFY-P-NMHU / NMHSU High Static
Ceiling-Concealed Ducted



PFFY-NEMU Exposed PFFY-NRMU Concealed Floor-Standing

## CITY MULTI® CONTROLS NETWORK (CMCN)

The flexibility of CITY MULTI controls allows you to select the level of control and integration that fits the needs of your application.

#### **ZONED CONTROLLERS**



PAR-FL32MA
Wireless MA
Wireless Remote
Controller



PAC-YT53CRAU Simple MA Remote Controller



PAR-40MAAU Deluxe MA Remote Controller



PAR-U01MEDU SmartME Controller\*



**PZ-61DR-E** Lossnay\* Remote Controller



PZ-43SMF Lossnay Remote Controller



PAR-CT01MAU-SB Touch MA Remote Controller



**kumo cloud**\* App-based Controller

#### **CENTRALIZED CONTROLLERS**



AE-200A/AE-50A
Touch Screen
Centralized Controllers
(Browser Capable)



**EW-50A**Centralized Controller
(Browser Capable)



TC-24B
Touch Screen
Centralized Controller



ICCW Integrated Centralized Control Web

## **CUSTOM CONTROL SOLUTIONS**



PACY-YG60MCA (PI) PAC-YG63MCA (AI) PAC-YG66DCA (DIDO) I/O Control Boards



**LMAPO4U** LonWorks\* Interface



**DC-8000**Diamond Controls™
Building Management
System



PAC-US444CN Thermostat Interface

## **PRODUCT ADVANTAGES**

# CITY MULTI® HIGH-PERFORMANCE, MODULAR VRF SYSTEMS

CITY MULTI outdoor units feature a lightweight modular design with a minimal footprint, lower sound level, easy piping, maintenance and much more.

## 1 INVERTER-DRIVEN COMPRESSOR TECHNOLOGY

The compressor varies its speed to match the indoor cooling or heating demand to consume only the energy required. No other compressor design can match the efficient performance.

## **2** EASY MAINTENANCE

In many cases, our systems allow an indoor unit to be serviced while other indoor units within the same piping system are still in operation. Indoor units only require periodic filter changes and cleaning. Protective coating comes standard on air-source outdoor units to lengthen coil life while additional Bermuda Special treatment, designated -BS within the model number, provides enhanced protection for the rest of the outdoor unit in sea-coast environments.

## **3** LONG LINE LENGTHS

The R2- and Y-Series outdoor units allow for long line lengths to the connected indoor units. Maximum total length of refrigerant piping is up to 2,624 feet for R2-Series and up to 3,280 feet for Y-Series.

## 4 ADJUSTABLE STATIC PRESSURE

R2-, Y- and H2i R2- and Y-Series outdoor fan features adjustable static pressure up to 0.32" W.G., enabling the use of louvers or ductwork in its installation. The static pressure setting is adjustable by changing a dip switch. The default setting is 0" W.G., with options for 0.12", 0.24" and 0.32" W.G.

## G QUIET OPERATION

CITY MULTI air-source outdoor units operate at sound levels as low as 55 dB(A)— the level of a common office environment, restaurant conversation or background music. Water-source units operate as low as 47 dB(A). Contributing features include our INVERTER-driven compressor compartment sealed by insulation-lined metal panels, vibration-absorbing compressor mounts, inverter-driven fan and Low Noise operating mode.

#### LOW AMBIENT OPERATION

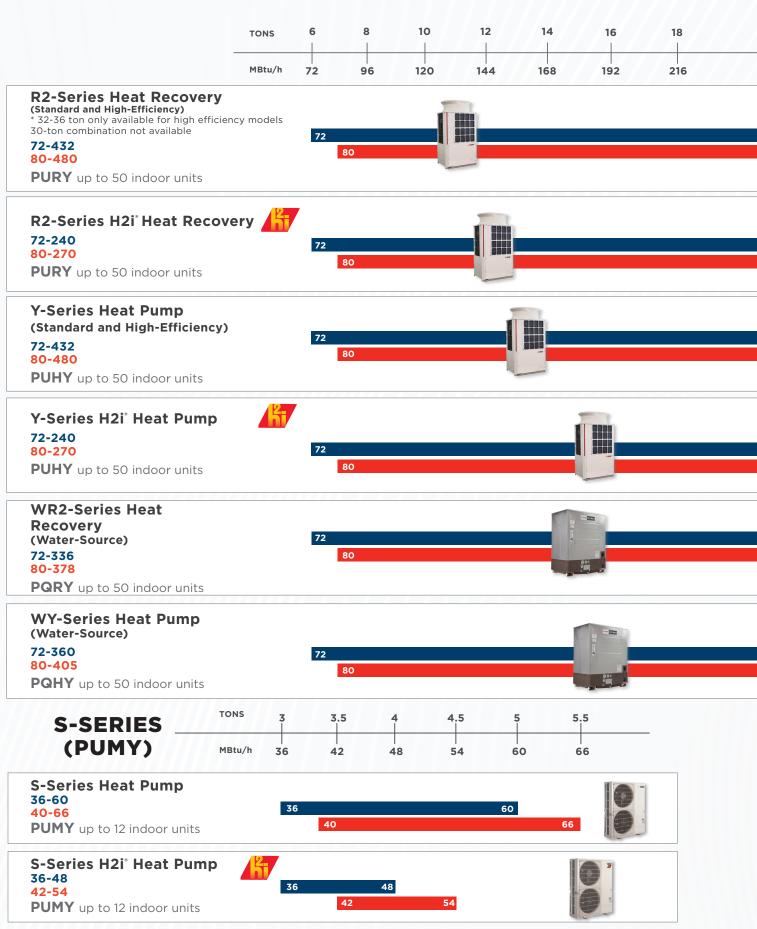
CITY MULTI systems provide 100% cooling capacity down to -10° F with the optional low ambient kit. Systems provide guaranteed heating capacity down to -22° F, with operation possible to -31° F (N-Generation H21 $^{\circ}$  Units).

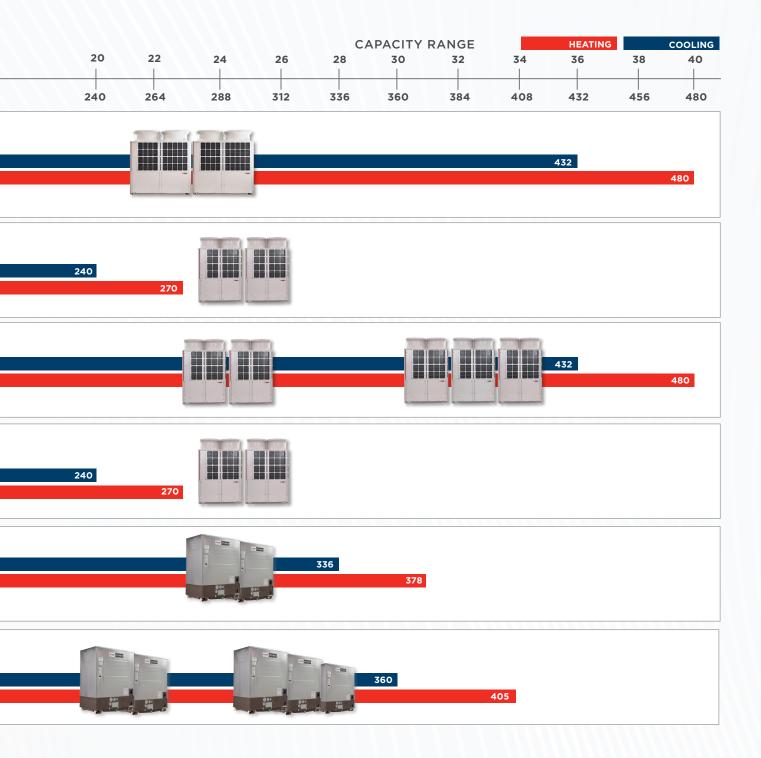




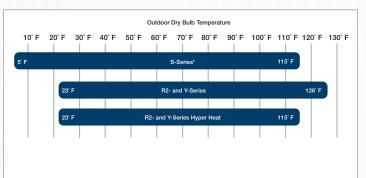


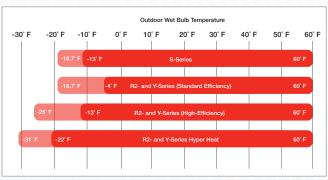
## **OUTDOOR UNIT SHOWCASE**





#### CITY MULTI' OUTDOOR UNIT OPERATING RANGES







## N-GENERATION

#### The industry's first two-pipe heat recovery system that simultaneously cools and heats.

The R2-Series simultaneously cools and heats different zones within a building to provide energy-saving heat recovery operation through the use of the Branch Circuit (BC) Controller.



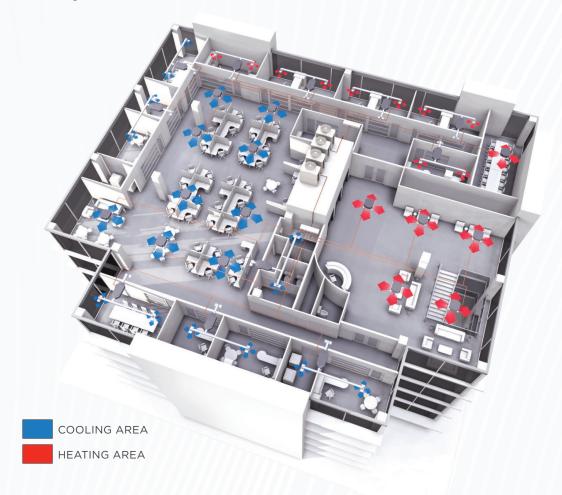
- ▶ Up to a 30% smaller footprint than previous outdoor unit models
- Expanded vertical piping limits increase by over 130 feet
- Redesigned main BC Controller features a 14% reduction in height compared to previous models along with a removable drain pan
- ▶ Connect up to 11 sub-BC controllers to one main BC
- ▶ Requires approximately 13% less refrigerant charge than L-Generation
- ▶ Broader range of capacities, with units from 6 to 36 tons
  - New 16-, 18- and 20-ton high-efficiency single modules
  - 16-20 tons units are high-efficiency only
- ▶ Increased energy efficiency with an up to 27% improvement than prior generation units
- New 4-sided heat exchanger, compressor and fan blade design improve both nominal and seasonal efficiency levels
- ► Five air flow settings
- Unique flat tube aluminum heat exchanger ensures maximum heat transfer, particularly at part-load conditions
- ► Improved heating performance, with H2i® liquid injection technology standard on high-efficiency models, provides comfort in any climate
- Built-in USB port allows for download and storage for up to five days of operational data directly into Maintenance Tool, resulting in simplified troubleshooting and maintenance
- ▶ Ultra-quiet noise levels. Improved compressor and fan design reduces noise output with decibel levels as low as 55 dB(A)

Refrigerant Piping Lengths (Maximum Feet)	
Total Length <sup>1</sup>	1,761-3,073
Farthest indoor from outdoor	541 (623 equivalent)
Maximum length between outdoor and single/main BC Controller	360
Maximum length between single/main BC controller & indoor	131-197
Indoor/Outdoor (Outdoor Higher) <sup>3</sup>	164
Indoor/Outdoor (Outdoor Lower) <sup>4</sup>	131
Indoor/BC Controller (Single/Main) <sup>2</sup>	49
Indoor/Indoor	98
Main Controller/Sub BC Controller	49

- 1. Maximum Total Length is dependent on the outdoor unit model and distance between BC Controller.
- 2. Maximum length between single/main BC Controller and indoor is dependent upon the vertical differential between the single/main BC Controller and the indoor unit.
- 3. 295' is available depending on model and installation conditions. For more detailed information, contact your local distributor.
- 4. 197' is available depending on model and installation conditions. For more detailed information, contact your local distributor.

#### SIMULTANEOUS OPERATION

CITY MULTI VRF systems provide simultaneous cooling and heating any time of year. This innovation transfers heat from one zone, normally ejected outside the building, to be used in another zone within the building.





#### **Branch Circuit Controller**

The BC Controller is the technological heart of the CITY MULTI R2-Series. It works in unison with the outdoor unit to provide simultaneous cooling and heating, something no other two-pipe system can do.

#### Single BC Controller:

For systems with up to 120,000 Btu/h nominal cooling capacity that require only one BC Controller.

#### Main BC Controller:

For larger systems that require the use of Sub BC Controllers.

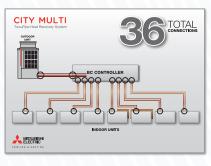
#### **Sub BC Controller:**

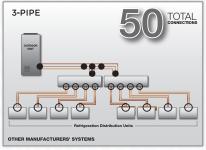
Used with a Main BC Controller to connect additional indoor units. A maximum of 11 Sub BC Controllers can be connected to one Main BC Controller per system.

#### THE TWO-PIPE ADVANTAGE

CITY MULTI\* heat recovery systems provide simultaneous cooling and heating with just two refrigerant pipes. As the number of indoor units grow, so do the two-pipe installations savings, in terms of connections (refrigerant and electrical) as well as maintenance access.

#### FEWER CONNECTIONS REQUIRED FOR SIMULTANEOUS OPERATION







= 2 CONNECTIONS = 3 CONNECTIONS

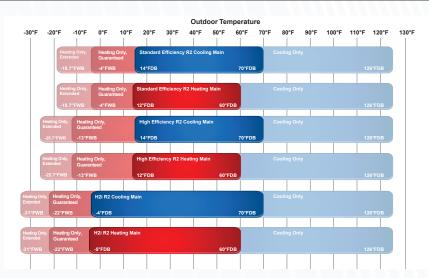
#### **EFFECTIVE ENERGY USAGE**

The total applied capacity of the R2-Series system's indoor units can be up to 150% of the capacity of the outdoor units. This is made possible by taking advantage of load diversity and simultaneous cooling and heating operation. CITY MULTI VRF systems can satisfy a significantly higher building load by efficiently distributing the capacity to the outdoor units and indoor units while using much less energy. CITY MULTI systems, in combination with Mitsubishi Electric's Integrated Centralized Control Web (ICCW) configured with optional Energy Allocation software, appropriately allocates the cooling and heating usage among the tenants. The allocation is based on each tenant's usage of comfort control based on the temperature setting on their system controller. ICCW can control up to 2,000 indoor units from a single PC.

#### **MODULAR SCALABILITY**

With the Twinning Kit accessory, the modular units easily combine in the field to create a larger capacity system. Only two refrigerant pipes need to be twinned, saving time and materials. Oil and pressure equalization lines aren't needed when combining modules. This also helps to reduce installation cost.

#### SIMULTANEOUS OPERATING RANGE



## H2i® R2-SERIES

## Bringing year-round comfort to extreme climates with energy recovery

The Hyper-Heating INVERTER\* (H2i) R2-Series simultaneously cools and heats different zones within a building to provide energy saving heat recovery operation. Our 2-pipe H2i R2-Series gives you the flexibility to fit the specific needs of any building and provides reliable cold-climate heating performance.



- ▶ 2-pipe, simultaneous operation for up to 50 zones
- Available capacities (6, 8, 10, 12, 16, 20 ton)
- ▶ 50%-150% connectible capacity
- > 70% heating capacity at -22° F, up to 85% heating capacity at -13° F and 100% heating capacity at -4° F (6 ton and 8 ton)
- Improved Hyper-Heating INVERTER® (H2i) technology delivers superior heating performance in extreme climates
- Introduction of 10 ton single module
- Optional Provides continuous heating during defrost, improves occupant comfort
- Uses BC Controllers and headers to provide piping design flexibility and simultaneous operation
- INVERTER-driven compressor for outstanding performance and optimized energy usage
- ▶ Industry leading performance with lower power requirements
- ► Connects to CITY MULTI® indoor units; controlled via CITY MULTI Controls Network (CMCN)

Maximum Refrigerant Piping Lengths (Feet)					
Total length (maximum total length is dependent on the outdoor unit model and distance between BC Controller)	1,804-2,624				
Farthest indoor from outdoor	541 (623 equivalent)				
Maximum length between outdoor & single/main BC Controller	360				
Maximum length between single/main BC Controller and indoor					
Vertical Differentials Between Components (Maximum Feet)					
Indoor/Outdoor (Outdoor Higher)	164				
Indoor/Outdoor (Outdoor Lower)	131				
Indoor/BC Controller (Single/Main) (Maximum length between single/main BC Controller and indoor is dependent upon the vertical differential between the single/main BC Controller and the indoor unit)	49				
Indoor/Indoor	98				
Controller/Sub BC Controller	49				

## **N-GENERATION**

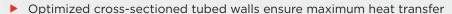
#### Two-Pipe Zoned Heat Pump System

Y-Series outdoor units are flexible enough to cool or heat up to 50 individual zones, maximizing building design options. The modular unit design features a small footprint and low operating sound.



- ► Improved heating performance providing up to 28% improvement compared to previous L generation
- ► Flash injection technology built-in as standard (High-Efficiency models)
- Up to 28% IEER improvement compared to L-Generation models
- ► HexiCoil™ aluminum flat tube heat exchanger technology, eliminating copper tubing from the coil (High-Efficiency tier)
- ▶ Significantly less refrigerant charge required vs. prior models
- Supports up to 50 indoor units per outdoor unit
- ▶ Broader range of capacities, with units from 6 to 36 tons
  - New 18- and 20-ton high-efficiency single modules
- Optimized refrigerant circuit and component design for improved flow distribution, allowing maximum energy transfer with minimal power input
- ► Superior high-ambient cooling performance with guaranteed operation to 126° F
- Extended 10-year parts and compressor warranty available





- ▶ Zinc-coated for long-term corrosion resistance
- Unique fin shape and coating provide water shedding capability
- ▶ Capillary tube system provides even fluid distribution



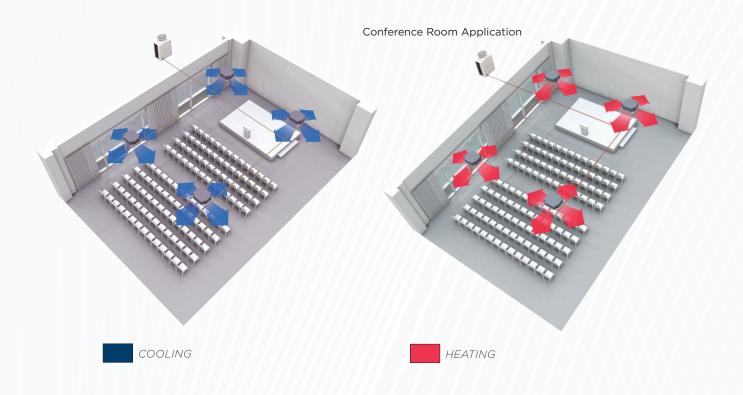
Maximum Refrigerant Piping Lengths (Feet)	
Total Length	3,280
Indoor to Outdoor	541
Indoor to First Branch	295
Vertical Differentials Between Units (Maximum Feet)	
Indoor/Outdoor (Outdoor Higher) 1	164
Indoor/Outdoor (Outdoor Lower) <sup>2</sup>	131
Indoor/Indoor	98

<sup>1. 295&#</sup>x27; is available depending on model and installation conditions. For more detailed information, contact your local distributor.

<sup>2. 197&#</sup>x27; is available depending on model and installation conditions. For more detailed information, contact your local distributor.

#### **ULTIMATE IN ZONING**

The CITY MULTI Y-Series uses a two-pipe system with a wide variety of indoor units and individual zone controllers to provide the ultimate zoning system. Headers and T-branches simplify the piping design and provide design freedom for placement of both piping and indoor units. Individual zones are managed by remote controllers placed in each zone or by the centralized controller.



#### **INTELLIGENT ENERGY USAGE**

The highly responsive INVERTER technology and customized zone control of the CITY MULTI Y-Series provides year-round savings. In warm summer months, the Y-Series provides exceptional zoned cooling, and in cold winter months, the INVERTER-driven compressor provides outstanding heating performance. CITY MULTI systems, in combination with Mitsubishi Electric's Integrated Centralized Control Web configured with optional ICCW software, appropriately allocates the cooling and heating usage among the tenants. The allocation is based on each tenant's actual usage. Integrated Centralized Control Web can control up to 2,000 indoor units from a single PC.

#### **DESIGN FLEXIBILITY**

Flexibility is the key with the CITY MULTI Y-Series. The Y-Series, just like the R2-Series, can condition up to 50 zones. By using T-branches and headers, the Y-Series provides the ultimate in piping design flexibility that is truly simple in application.

## Bringing year-round comfort to extreme climates with energy recovery

Hyper-Heating INVERTER\* (H2i) technology enhances the Y-Series by providing full heating capacity to -4° F outdoor ambient temperature. H2i technology is exclusive to Mitsubishi Electric and is available in select CITY MULTI\* VRF units.





- ► Heat pump that provides either all-cool or all-heat operation in up to 50 zones
- Available capacities (6, 8, 10, 12, 16, 20 ton)
- ▶ 50%-130% connectible capacity
- ► Extreme performance provides up to 100% heating capacity at 4° F, up to 85% heating capacity at -13° F, and up to 70% heating capacity at -22° F
- ▶ Uses T-branches and headers to provide piping design flexibility
- ► INVERTER-driven compressor for outstanding performance and optimized energy usage
- ▶ Industry leading performance with lower power requirements
- Connects to CITY MULTI indoor units; controlled via CITY MULTI Controls Network (CMCN)

Maximum Refrigerant Piping Lengths (Feet)	
Total Length	3280
Indoor to Outdoor	541
Indoor to First Branch	295
Vertical Differentials Between Units (Maximum Feet)	
Indoor/Outdoor (Outdoor Higher)	164
Indoor/Outdoor (Outdoor Lower)	131
Indoor/Indoor	98

<sup>1. 295&#</sup>x27; is available depending on model and installation conditions. For more detailed information, contact your local distributor.

<sup>2. 197&#</sup>x27; is available depending on model and installation conditions. For more detailed information, contact your local distributor.

#### **EXTREME HEATING PERFORMANCE**

With its expanded heating capabilities, the CITY MULTI\* H2i\* R2- and Y-Series provides year-round comfort, even in extreme climates.

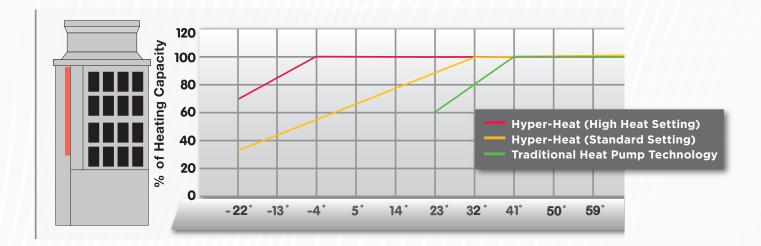
- ▶ At -4° F outdoor temperature, the H2i system can provide 100% of rated heating capacity
- ▶ At -13° F outdoor temperature, the system can provide up to 85% heating capacity
- ▶ At -22° F, the system can provide up to 70% heating capacity

#### **UNEQUALED COMFORT**

The patented flash injection process cools the compressor, allowing higher speeds at a lower outdoor temperature without overheating. This also allows the system to maintain indoor coil temperatures providing phenomenal heating performance at low temperatures. The Hyper-Heating INVERTER\* combines the ultimate in application flexibility and powerful conditioning capabilities to deliver personalized comfort control to multiple zones of a commercial or institutional building. The outdoor units deliver full-sized performance from a compact, space-saving design for ease of transportation and installation. The INVERTER-driven scroll compressor delivers the precise amount of comfort to the zones as required.

#### HYPER-HEATING INVERTER VS. OTHERS

(72,000 Btu/h, 70° F W.B. entering Indoor Unit)



## S-SERIES (PUMY)

#### Solutions for light commercial and large residential applications

The CITY MULTI\* S-Series (PUMY) is a single-phase heat pump system ideal for light commercial or large residential applications. Featuring best-in-class efficiency ratings and ENERGY STAR\* qualification, PUMY systems are designed to deliver operational cost savings and long-time performance to a homeowner or building owner. It uses the CITY MULTI Controls Network (CMCN) to cool or heat up to 12 individual zones with a choice of indoor unit styles.



- ► Single-phase 208/230V operation allows use in residential and light commercial applications
- Systems available from 36,000-60,000 Btu/h
- ► All models are Energy Star® qualified
- ► SEER rating improvement of 8% (average vs. prior models)
- ► HSPF rating improvement of 3% (average vs. prior models)
- ▶ Blue-fin condenser coating standard on all models
- ► Extended heating operating range down to -18° F
- Extended cooling operating range down to 5° F
- Connects up to 12 indoor units

Maximum Refrigerant Piping Lengths (Feet)	
Total Length	984'
Indoor to Outdoor	4922
Indoor to First Branch	98
Vertical Differentials Between Units (Maximum Feet)	
Indoor/Outdoor (Outdoor Higher)	164
Indoor/Outdoor (Outdoor Lower)	131
Indoor/Indoor	49

- 1. Applies to P36 and P48 models only. P60 is 492'.
- 2. Applies to P36 and P48 models only. P60 is 262'.

# H2i<sup>®</sup> S-SERIES (PUMY)

Introducing the expansion of the S-Series (PUMY) outdoor unit lineup to include Hyper-Heating INVERTER® (H2i®) technology.

Part of the CITY MULTI\* family, the H2i\* PUMY is a single-phase heat pump ideal for light commercial applications including banks, churches, schools, server rooms, retail centers and more.





- Available in 36,000 and 48,000 Btu/h capacities
- ▶ 100% heating capacity at 1° F
- ▶ 78% heating capacity down to -13°F, utilizing flash injection technology
- ► Models are Energy Star® qualified
- Base Pan Heater standard





# Modular heat pump systems that combine the convenience of water source with VRF technology

W-Series units are easily installed indoors, which means that system performance efficiency is independent of outdoor ambient temperatures. W-Series includes WR2 models for simultaneous cooling and heating, and WY models for independent cooling and heating operation.



- ▶ Single modules up to 20 tons with the ability to combine single modules for systems up to 30 tons
- ▶ 208/230V, 3-Phase, 60 Hz and 460V, 3-Phase, 60 Hz options
- ▶ 0-10V output signal to modulate water flow for compliance with energy codes
- ► Enhanced water-side heat exchanger design for improved efficiency and reduced risk of clogging
- Designed for closed water loops
- Connects to CITY MULTI indoor units and controlled via CITY MULTI Controls Network (CMCN)
- Stack multiple units on a field-supplied rack to take advantage of vertical space when available
- Extended 10-year parts and compressor warranty available
- ▶ Unlike previous versions, water flow can be stopped while the unit is in a thermo-off state, saving on pump energy consumption. For twinned systems, both modules must be thermo-off to stop water flow
- ▶ A1 water-source units feature the Variable Evaporating Temperature (VET) technology enables the W-Series unit to raise the target evaporation temperature based on the difference between set point and return air temperature, saving energy

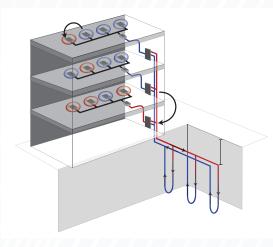
#### **Benefits**

#### CITY MULTI SYSTEMS AND GEOTHERMAL APPLICATIONS

CITY MULTI water-source systems, used in geothermal and other types of applications, work by taking heat or rejecting heat from/to the ground. Closed loop systems accomplish this by circulating water through a series of wells or loops that are installed in the ground, turning the ground into a large heat exchanger. Because the ground remains relatively unaffected by outdoor ambient temperatures, the loop runs at temperatures lower than ambient temperatures throughout the cooling season and higher than ambient temperatures throughout the heating season.

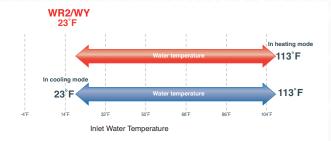
#### **DOUBLE-HEAT RECOVERY**

The double-heat recovery feature of the WR2-Series helps recover energy that would normally be rejected to the condensing water loop. First, within the system, energy is absorbed in units providing cooling. The energy is redirected by refrigerant to units that are in heating mode. Secondarily, energy can be recovered between systems through the water loop.



#### **EXTENDED TEMPERATURE RANGE**

WR2- and WY-Series CITY MULTI\* water-source units can handle entering water temperatures down to 23° F (with the addition of glycol to the condenser water loop) in both heating and cooling mode allowing more possibilities for geothermal applications. Coupling the water-source units with a geothermal loop will not only provide the benefit of higher efficiencies by using a lower entering water temperature but will also provide all the benefit of an INVERTER-driven CITY MULTI system.



#### **VARIABLE EVAPORATING TEMPERATURE (VET)**

Variable Evaporating Temperature (VET) technology enables the outdoor unit to raise the target evaporation temperature based on the difference between set point and return air temperature.

- ▶ Once all indoor units are within 1.8° F of set point, the target evaporating temperature will rise in a linear fashion the closer the indoor unit gets to set point.
- ► Four levels of VET are available (32° F, 37° F, 41° F and 43° F), offering energy efficiency improvements of 25%-45%.



#### **ELECTRONIC PRESSURE INDEPENDENT VALVE (ePIV)**

- ► The ePIV receives a 0-10V input signal from the outdoor unit. This allows water flow to vary from nominal down to minimum, as demand is reduced
- ► The valve eliminates power input penalties and capacity loss due to lower design flow at full load operation, while saving on pump energy at reduced load conditions
- ► The valve contains a built-in ultrasonic flow meter with direct feedback into the valve actuator. This eliminates the balancing valve, along with labor to install it, for minimum and maximum flow and provides an integral flow switch function

## LOW AMBIENT COOLING KIT

#### **FULL COOLING PERFORMANCE IN EXTREME CONDITIONS**

The specially designed wind deflectors will block unwanted wind that could impede operation and will allow full airflow when required at higher ambient temperatures or in heating mode. The assembly also provides a more efficient defrost cycle when the unit is operating in heating mode. Complete Low Ambient Kit requires hood with control damper assembly and wind deflectors.



#### PATENTED TECHNOLOGY

Low ambient hood (LAHN-1, LAHN-2, LAHN-3, and LAHN-4), Side Deflector (SWDN-1), and Rear Deflector (WDN-1, and WDN-2). Allows system to operate at 100% cooling capacity at reduced outdoor temperatures:

- ► Y-Series Outdoor Units (down to -10° FDB Outdoor Temp.)
- ▶ R2-Series (includes H2i\* R2-Series) Outdoor Units (down to -10° FDB Outdoor Temp.)

#### **ADDITIONAL FEATURES**

- ► Hood and wind deflectors constructed of 20 gauge hot-dipped galvanized G-90 steel
- ▶ Heavy-duty polyester-based powder paint finish
- ▶ Designed to work with both 208/230 and 460V 3-phase units
- ▶ NEMA 4X control box protects electrical components from the elements
- ▶ Kit easily connects to outdoor unit with plug-in electrical connections
- ▶ Wind deflectors easily install in place of existing wire guard

#### **APPLYING TO MULTIPLE OUTDOOR UNITS**

For outdoor units with multiple modules, a minimum 1-3/16" separation between the modules is recommended. If modules are placed more than 15" apart, more than one set of side wind deflectors may be needed. For multiple units or module sets placed in a row, only one side wind deflector is needed for each of the outside module coil surfaces.

#### **COLD WEATHER SOLUTIONS**





#### **LOW AMBIENT COOLING (LAHN SERIES)**

The specially designed wind deflectors block unwanted wind that could impede operation and allow full airflow when required at higher ambient temperatures or in heating mode. The wind deflectors also provide a more efficient defrost cycle when the unit is operating in heating mode. The complete Low Ambient Kit requires a hood with a control damper assembly and wind deflectors. With the addition of wind deflectors, CITY MULTI\* Y-Series and R2-Series outdoor units feature 100% cooling capacity at outdoor temperatures down to -10° F. The wind deflector kit easily installs in the place of the existing wire guard, and the hood connects to the outdoor unit with plug-in electrical connections.

#### **HAIL/SNOW GUARDS (SGN SERIES)**

Designed to protect the outdoor unit coil surfaces from hail damage or snow buildup in severe climates. Made of 20-gauge, hot-dipped galvanized G-90 steel, the hail/snow guards feature a heavy-duty polyester-based powder paint finish to match the outdoor units. Using existing wire guard fasteners, the hail/snow guards are easily installed to the sides and rear of the unit in just minutes.

SGK-Series is compatible with N-Generation.



#### HAIL/SNOW HOODS (SHN AND SHK SERIES)

Hail/snow hoods are made to the same specifications as the hail/snow guards, and protect the outdoor unit fan guard from hail damage and snow buildup in severe climates. Using existing wire guard fasteners, the hail/snow hoods are easily installed to the sides and rear of the unit in just minutes. Hail/snow hoods are sold separately.

#### **N-GENERATION PANEL HEATERS**

Mitsubishi Electric panels heaters feature a heating coil controlled by the CITY MULTI\* outdoor unit which prevents ice buildup. The panel heater is ideal for low temperature, high humidity environments where the outdoor unit will be operating in heating mode for an extended period of time. Panel heaters connect to the wiring connector located in the side channel of all CITY MULTI® N-Generation Y-Series and R2-Series modules. Pre-installed panel heaters are included on all N-Generation Hyper-heating models.

Note: Snow hoods and side/rear snow guards are also recommended for installations with panel heaters.



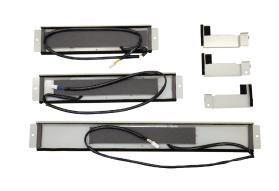
Mitsubishi Electric features multiple configurations of stands and supports for S-Series, and CITY MULTI outdoor units. The sturdy stands and supports are designed to keep the outdoor unit above or off the ground and away from snow drifts in cold weather climates.

#### **SUPERSTANDS**

SuperStands provide secure mounting support and height above ground to keep CITY MULTI outdoor units out of normal snow accumulations. Available in 12", 18", and 24" leg heights for varying mounting options. The stands lock together to make one continuous interlocked stand for almost any number of outdoor units.

- Rubber roof friendly
- ▶ Adjustable height in ¼" and ½" increments.
- ▶ U-Bars made from 11 gauge steel square tubing
- Available leg heights: 12", 18", and 24"

Outdoor unit must be mounted at least 12" off the ground or 12" above the highest average snow depth, whichever is greater. The outdoor unit may require additional mounting restraints depending on the mounting location.



N-GENERATION PANEL HEATERS





## LINEAR EXPANSION VALVE (LEV) KIT



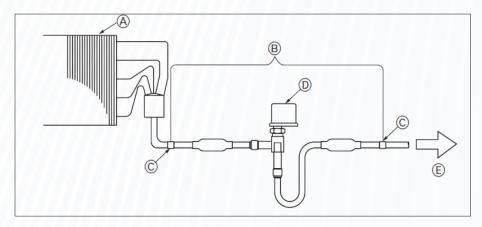
- ► The LEV kit is an interface to connect CITY MULTI\* outdoor units to air handlers produced by other manufacturers. These air handlers can be used with or without CITY MULTI indoor units
- ► The LEV kit is used to control room temperature or with a Dedicated Outdoor Air System (DOAS) for discharge temperature control
- ▶ The kit can be used for 0-10 VDC set point control from other devices
- ► The kit can be used with all CITY MULTI control options, including CN105 connections (return air temperature control only)



CONTROL BOX

LEV Assembly Model*	Capacity Code Setting [Ton]	Design Capacity Range [Btu/h]
LEV PAC-LV24AC-1	0.5, 0.7, 1, 1.25, 1.5, 2	4,800-24,000
LEV PAC-LV48AC-1	2.25, 2.5, 3, 4	24,000-48,000
LEV PAC-LV60AC-1	4.5, 5	48,000-60,000
LEV PAC-LV96AC-1	6, 8	60,000-96,000
LEV PAC-LV120AC-1	10	96,000-120,000
LEV PAC-LV96AC-1 (x2)	12, 14, 16	120,000-192,000
LEV PAC-LV120AC-1 (x2)	18, 20	192,000-240,000

\*Control box assembly required (PAC-AH001-1)



- AHU Heat Exchanger (field supplied)
- **B** LEV Assembly
- © Brazing
- ① LEV
- **(E)** To Outdoor Unit

## S-SERIES ACCESSORIES

S-Series accessories feature the latest in high quality, durable products designed to complement outdoor units and to maintain peak performance and with limited maintenance.

#### **ADV-1 AIR DEFLECTOR VERTICAL**

The S-Series air deflector changes the direction of the discharged air. This permits multiple outdoor units to be positioned closer together in applications with limited space.



The specifically designed S-Series front wind baffles block unwanted wind that could impede operation by preventing the fan from counter-rotating in windy conditions. The addition of a front wind baffle to the cabinet of the outdoor unit also extends the cooling capacity. This component is constructed to be durable and low maintenance.

#### **BASE PAN HEATER**

S-Series base pan heaters feature a heating coil controlled by the outdoor unit which prevents ice buildup. The base pan heater is ideal for low temperature, high humidity environments where the outdoor unit will be operating in heating mode for an extended period of time.

#### **AIR OUTLET GUIDE**

The air outlet guide is used to force air out of the outdoor unit, either upward, downward or sideways (to the left or to the right). It can be used to prevent the outdoor unit from short cycling the exhaust air. It also enables the outdoor unit to be mounted closer to a wall or other outdoor units. Used on the S-Series only.













# **INDOOR UNIT SHOWCASE**

## Complete Building Comfort Solutions

All models feature quiet operation, easy maintenance, and the ultimate in personalized comfort control. The chart below gives the capacity size for each model.

	Nominal Btu/h														
Capacity Code	4,000	5,000	6,000	8,000	12,000	15,000	18,000	24,000	27,000	30,000	36,000	48,000	54,000	72,000	96,000
Wall-Mounted PKFY-P-NLMU-E	•		•	•	•	•	•								
Wall-mounted PKFY-P-N-MU-E								•		•					
Ceiling Cassette (4-way) PLFY-EP-NEMU			•	•	•	•	•	•		•	•	•			
Ceiling Cassette (4-way) PLFY-P-NFMU		•		•	•	•	•								
Ceiling Cassette (1-way) PMFY-P-NBMU			•	•	•	•									
Ceiling-Suspended PCFY-P-NKMU						•		•		•	•				
Ceiling-Concealed (Ducted Low-Profile) PEFY-P-NMSU			•	•	•	•	•	•							
Ceiling-Concealed (Ducted Medium-Static) PEFY-P-NMAU			•	•	•	•	•	•	•	•	•	•	•		
Ceiling-Concealed (Ducted High-Static) PEFY-P-NMHU/NMHSU						•	•	•	•	•	•	•	•	•	•
Floor-Standing (Exposed/ Concealed) PFFY-P-NEMU/NRMU			•	•	•	•	•	•							
Multi-Position PVFY-P-NAMU					•		•	•		•	•	•	•		
PWFY-P-NMU-E2-AU PWFY-P-NMU-E-BU											•			•	

## Elegant design and compact dimensions

Whatever the size or shape of your room, there's a PKFY wall-mounted unit that is just right for you. PKFY units mount high on the wall and blend beautifully into any space. Perfect for hotels, assisted living facilities, offices, residences and other applications where wall space is available.





- Ranges from 4,000 to 30,000 Btu/h
- ► Compact, lightweight and features a built-in wireless sensor for use with an optional wireless remote controller
- Extremely quiet: as low as 22 dB(A)
- Multiple fan speed settings.
- Multiple vane settings and swing setting adjust airflow in vertical directions
- Front panel opens easily—no tools are needed to gain access to the filter
- ▶ Refrigerant and drain piping can be connected from the rear, right, base, or left of the unit
- Condensate pump systems are available when gravity drainage is not available

Benefits

#### **EASY FILTER CLEANING**

The front grille hinges open easily—no tools are needed to gain quick access to the filter. The filter can be removed and cleaned as needed.

#### **QUIET OPERATION**

The unit incorporates a random-pitch fan to assure quiet operation. The optimal design of the airflow passage features a small fan diameter to allow for a compact installation. Thanks to practical casing configuration, airflow generated by the fan is uniformly distributed.

#### SUPERIOR AIR DISTRIBUTION

A user-selectable vane swing setting with the Smart ME and Simple MA remote controllers enhances air distribution in the conditioned space.

## **FLEXIBLE INSTALLATION**

Refrigerant and drain piping can be connected from the rear, right, base, or left of the unit, providing much greater flexibility for piping and selecting an installation site.

## **PLFY** (Four-Way Ceiling Cassette)

## Bringing Adjustable airflow to meet your every need

The PLFY-Series four-way ceiling cassette provides exceptional performance and air coverage. Two styles are available: the PLFY-EP-NEMU and the PLFY-P-NFMU. Both models can be accessorized with installation trim panels (PLFY-ITP1 and PLFY-ITP2) to ensure a seamless integration into suspended ceilings.

## **PLFY-EP-NEMU**



- > 33" x 33" cabinet size
- Capacity range of 6,000 to 48,000 Btu/h
- ► Sound levels as low as 27 dB(A)
- Ventilation air connection (Second connection found in multifunction casement)
- ► High-efficiency filter option (MERV-10 requires multifunction casement)
- ▶ Branch ducting capability
- ► Four-speed fan settings
- ► Integrated condensate lift mechanism to provide up to 33-7/16" of lift

## **PLFY-P-NFMU**



- ▶ 22" x 22" cabinet size to fit in standard T-grid ceiling
- Capacity range of 5,000 to 18,000 Btu/h
- ► Sound levels as low as 29 dB(A)
- Ventilation air connection
- Three-speed fan settings
- Integrated condensate lift mechanism to provide up to 19-11/16" of lift

#### HIGH PERFORMANCE AND VERSATILITY

The four-way ceiling cassette is compact and recesses easily into a ceiling space, so all you see is an attractive flush-mounted grille. The PLFY-EP-NEMU has a unit height of only 10-3/16" or 11-3/4", depending on the model. At 8-3/16" in height and 22-7/16" x 22-7/16" width, the PLFY-NFMU makes satisfying even the tightest

of ceiling installations a possibility.

#### **QUIET OPERATION**

This powerful indoor unit is whisper-quiet, down to 27 dB(A) for the PLFY-PNEMU and 29 dB(A) for the PLFY-NFMU.

## **CUSTOMIZE THE AIRFLOW PATTERN TO MEET YOUR NEEDS**

The different airflow options provide the best solution for a variety of room layouts and air-conditioning requirements. For extra versatility, you can select up to 72 airflow patterns with two-, three-, or four-way airflow.

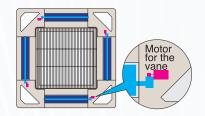
1 1 1

4-, 3-, OR 2-WAY AIRFLOW

FIXED AIRFLOW DIRECTION PER VANE

#### **BUILT-IN CONDENSATE LIFT MECHANISM**

The drain piping of the PLFY-EP-NEMU can be positioned anywhere up to 33-7/16" from the ceiling's surface, allowing for long piping and versatility. The PLFY-NFMU model has a built-in pump that lifts condensate 20" from the ceiling's surface. The unit recognizes if there is a pump failure and safeguards against leaks.



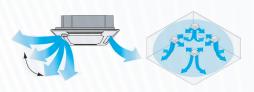
# CORNER-POCKET DESIGN SIMPLIFIES MAINTENANCE AND INSTALLATION

PLFY-EP-NEMU allows access through the pockets equipped on each of four corners of the grille to complete installation, maintenance work, and height adjustment.

## **EASY MAINTENANCE, LONG-LIFE FILTER**

The washable filter provides about 2,500 hours of use in a normal office environment before cleaning is needed.

## INDEPENDENT VANE MOTOR CONTROL



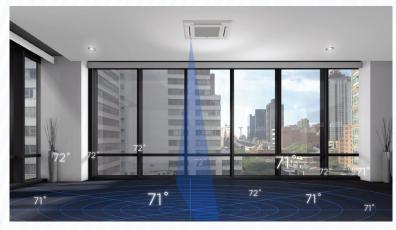


# i.see Sensor



The 3D i-see Sensor™ detects the number of occupants in a room and adjusts the temperature accordingly, making automatic energy-saving operation possible in places where the number of occupants frequently changes. Additionally, when the area is continuously unoccupied, the system switches to an enhanced power-saving mode.

- Detects occupant location
- ▶ Detects size, temperature, and movement of occupants (heat source). Once an occupant is detected, the angle of the indoor unit's vane(s) is automatically adjusted. Each vane can be independently set to "Direct Airflow" or "Indirect Airflow" according to user preference
- ► Highly accurate temperature detection
- ▶ The sensor can detect 1,856 points of surface temperature, rotating a full 360° in 3-minute intervals
  - This is a significant improvement over the previous version of the i-see Sensor, which had a single element and did not detect room occupants
- ► Room occupancy energy-saving mode
  - When the occupancy rate is approximately 30%, energy consumption is reduced by offsetting the temperature by  $\pm 2^{\circ}$  F
- ▶ No occupancy energy-saving mode
  - When the 3D i-see Sensor detects that no one is in the room, and 60 minutes have elapsed, the room temperature is offset by  $\pm 4^{\circ}$  F
- No occupancy Auto-OFF mode
  - When the room remains unoccupied for a user specified period of time, the indoor unit turns off automatically, providing even greater energy savings. The time period can be set, in 10-minute intervals, from 60 to 180 minutes





## Compact and lightweight, perfect for office spaces with windows

The PMFY model is a ductless, one-way, ceiling cassette that moves air in one direction, and has the capability of introducing ventilation air. The PMFY can be accessorized with an installation trim panel (PMFY-ITP1) to ensure a seamless integration into suspended ceilings.



- ▶ The PMFY is available in 6,000, 8,000, 12,000 and 15,000 Btu/h
- ▶ Standardized cabinet size for all models: 31-31/32"
- Airflow control technology operates as low as 27 dB(A) for industry-leading quiet performance
- ► Integrated condensate lift mechanism to provide up to 23-5/8" of lift
- ► Full unit access through front cover panel

**DRAIN MECHANISM** 

max.

23-5/8"/

## Benefits

## **QUIET OPERATION**

Specialized airflow control technology operates as low as 27 dB(A) for industry-leading sound performance.

# BUILT-IN CONDENSATE LIFT MECHANISM

The drain pipe can be extended anywhere up to 23-5/8" above the ceiling's surface.

# EASY INSTALLATION AND MAINTENANCE

PMFY body size has been standardized for all models at 31-31/32" for easier installation. With a height of only 9-1/16", the profile is one of the smallest of all CITY MULTI ceiling models. This unit is one of the lightest available with a weight of only 31 pounds for the main unit and seven pounds for the panel.

# Drain pipe

Ceiling

9-1/16"

max.

15-13/16"

7-25/32"

## **PCFY** (Ceiling-Suspended)

## Compact design ideal for classrooms, restaurants and stores

The PCFY model features powerful air throw to cover entire spaces quietly and efficiently.



- Available in 15,000, 24,000, 30,000, and 36,000 Btu/h capacities
- Auto-vane and wide-range outlet provides uniformly distributed conditioned air to all corners of the room
- ► Four-speed fan settings
- Accessory filters are available to increase filtration effectiveness
- ▶ Optional pump kit is available for condensate removal

## Benefits

## **POWERFUL PERFORMANCE**

The easy-to-install, ceiling-suspended unit delivers enough cold or hot air to make any space more comfortable. Manually adjusted, oversized swing louvers direct the airflow left or right, covering the entire space quietly and efficiently.

## THE I-SEE T ACCESSORY

This amazing technology constantly monitors and adjusts temperatures for maximum comfort and efficiency.

- Measures infrared rays generated from surrounding walls and surface angles
- Rotates 90 degrees in five-second intervals
- Efficiently adjusts temperatures to ideal comfort levels for occupants

## **QUIET, EFFICIENT AIRFLOW**

Appropriate airflow can be selected to enhance space conditioning efficiency and comfort while operating at a low sound level. PCFY's auto-vane and wide-range outlet swings the conditioned air and distributes it uniformly to all corners of the room.

#### **EASY INSTALL**

The PCFY's direct suspension allows installation on most ceiling surfaces quickly and securely using only suspension bolts and the durable attachment fixture. An optional pump kit is available to dispose of condensate.

## PEFY (Ceiling-Concealed Ducted)

## Flexible design allows elegant interior layout

The PEFY models are high-performance, ceiling-concealed, ducted indoor units. An excellent choice for office buildings, schools, hotels, assisted-living facilities and other applications where ceiling space is available.



## LOW PROFILE (NMSU)

- ▶ Provides up to 0.2" external static pressure
- Extremely quiet, with sound ratings as low as 26 dB(A)
- Capacities range from 6,000 to 24,000 Btu/h
- ▶ Integrated condensate lift mechanism to provide up to 21-11/16" of lift



## **MEDIUM STATIC (NMAU)**

- ▶ Provides up to 0.6" external static pressure
- Extremely quiet, with sound ratings as low as 26 dB(A)
- Capacities range from 6,000 to 54,000 Btu/h
- ▶ Integrated condensate lift mechanism to provide up to 27-9/16" of lift



## HIGH STATIC (NMHU-E2/NMHSU)

- ▶ Provides up to 1.00" external static pressure
- Extremely quiet, with sound ratings as low as 36 dB(A)
- Capacities range from 15,000 to 96,000 Btu/h
- ► Integrated condensate lift mechanism to provide up to 27-9/16" of lift (Note: Not applicable to P72 and P96 models)

## **KEY FEATURES**

- External static pressure settings are adjustable to meet varying application conditions
- Choice of fan speed settings
- ► Side access to control panel
- Integrated condensate lift mechanism (low-static, mid-static and NMHU-E2 models)

#### **CHOICE OF EXTERNAL STATIC PRESSURE**

Additional external static pressure capacity provides flexibility for duct extension, branching, and air outlet configuration. The factory setting can be field-adjusted to match the installed ductwork for PEFY indoor units. The PEFY indoor unit is available in a low-profile option with up to 0.20" W.G., medium static indoor unit up to 0.6 W.G. and a high-static option for up to 1.00" W.G.

#### **QUIET OPERATION**

The specially designed centrifugal fan provides exceptionally quiet operation, even at high operating speeds.

#### OPERATING SOUND RANGE

	PEFY-P-NMAU	P06	P08	P12	P15	P18	P24	P27	P30	P36	P48	P54
Sound Level dB(A)	Fan Speed Low-High	26	-29	28	-34	28-35	29-36	30-	-38	32-41	35-44	36-45
	PEFY-P-NMSU	P06	P08	P12	P15	5 P18	3 P	24				
Sound Level dB(A)	Fan Speed Low-High	22-28	23-30	23-35	28-3	3 30-3	30	-40				
	PEFY-P-NMH(S)	J P15	P18	P24	P27	P30	P36	P48	P54	P72	P96	
Sound Level dB(A)	Fan Speed Low-High	34	-39	36-41	35-41	38-43		38-44	1	36-43	39-46	

#### **BUILT-IN CONDENSATE LIFT MECHANISM**

The drain piping can be positioned anywhere up to 21-11/16" for NMSU or 27-9/16" for NMAU and NMH(S)U. from the ceiling's surface, allowing for long piping and versatility. A built-in safety switch halts operation if the pump experiences a problem or the drain becomes clogged, ensuring no water leaks occur.

#### **COMPACT OPTIONS (PEFY-P-NMSU)**

The PEFY-P-NMSU-E model is very compact, with a height of 7-7/8". Standard features include brazed refrigerant connections, rear air return, and auto fan mode. The unit operates as low as 22 dB(A), and the control panel is located on the opposite side from other ducted models. This unit is an ideal choice for guest rooms in hotels, dormitories, assisted living centers or any application with tight vertical clearances and minimal duct work.

## FILTER BOXES (M, L, H)

## Designed for CITY MULTI® Ceiling-concealed Ducted Indoor Units

Low-Profile FBL1 boxes include 1"-thick pleated MERV 13 filter(s).

Medium-Static FBM2 boxes include 2"-thick pleated MERV 13 filter(s).

High-Static FBH4 boxes include 4"-thick pleated MERV 13 filter(s).



- ▶ Rated Class 2 under UL Standard 900
- ► Cabinet is constructed of non-insulated 20 gauge G-60 galvanized steel
- Foam gasket provides airtight connection to indoor unit and access door
- ▶ Return connection in rear easily field converted to bottom

Part Number	Used on CITY MULTI Models	Filters Included	Net Weight (lbs.)
FBL1-1	PEFY-P06, P08, P12-NMSU	(1) — 13" x 25" x 1"	12
FBL1-2	PEFY-P15, P18-NMSU	(1) — 12" x 20" x 1" (1) — 12" x 14" x 1"	15
FBL1-3	PEFY-P24-NMSU	(3)—12" x 20" x 1"	18

Part Number	Used on CITY MULTI Models	Filters Included	Net Weight (lbs.)
FBM2-1-A	PEFY-P06, P08, P12-NMAU	(1) — 14" x 25" x 2"	20
FBM2-2-A	PEFY-P15, P18-NMAU	(1) — 14" x 20" x 2" (1) — 14" x 14" x 2"	26
FBM2-3-A	PEFY-P24, P27, P30-NMAU	(2)—14" x 20" x 2"	32
FBM2-4-A	PEFY-P36, P48-NMAU	(2) — 14" x 20" x 2" (1) — 14" x 14" x 2"	41
FBM2-5-A	PEFY-P54-NMAU	(3)—14" x 20" x 2"	46

Part Number	Used on CITY MULTI Models	Filters Included	Net Weight (lbs.)
FBH2-1	PEFY-P15, P18, P24-NMHU	(1) — 20" x 24" x 2"	14
FBH2-2	PEFY-P27, P30-NMHU	(1) - 20" x 16" x 2", (1) - 20" x 20" x 2"	24
FBH2-3	PEFY-P36, P48 P54-NMHU	(2) – 20" x 20" x 2"	27
FBH4-4	PEFY-P72, P96NMHSU	(2) – 24" x 24" x 4"	40

## **PFFY** (Floor-Standing)

## Effectively use perimeter areas for space conditioning

PFFY floor-standing models are available as exposed or concealed indoor units. At less than nine inches deep, these units are easy to install in peripheral spaces, yet offer highly efficient cooling and heating performance. Their low operating sound and compact size make them ideal for hotel rooms, schools and office buildings.



- ▶ PFFY-NRMU—designed for applications requiring a built-in, concealed, floor-standing unit
- ▶ The PFFY-P-NRMU unit can be field converted from top discharge to front discharge



- **Exposed Type**
- ▶ PFFY-NEMU—exposed-type model, perfect for most applications and requires no finish work
- Available in 6,000, 8,000, 12,000, 15,000, 18,000 and 24,000 Btu/h
- Two-speed fan settings

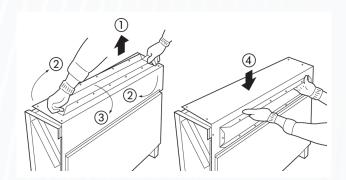
## **Benefits**

## **OPTIONAL MOUNTING FOR REMOTE** CONTROLLER

PFFY units can house a remote controller in the top corner (under a cover panel). The remote controller can be mounted on the wall or in the PFFY unit.

## **INSTALLATION FLEXIBILITY**

The PFFY-P-NRMU-E unit can be field converted from top discharge to front discharge to increase installation flexibility.



## **PVFY** (Multi-Position Air Handler)

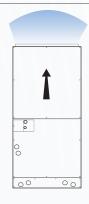
## Ideal for closet, attic, or equipment room installations

PVFY multi-position air handlers can be connected to a system with other CITY MULTI\* indoor units for complete system design flexibility. The multi-position design is suitable for any application, making it ideal for installation in a closet, attic, or an equipment room.



- Selectable external static pressure up to 0.80
- ▶ Reusable standard-size 1" filter
- ► Side return available (P12-P24 only)
- Unique cabinet insulation design allows for no thermal penetration into the coil section
- ► Cabinet can be disassembled to install in very tight spaces
- ► Heavy gauge, high-gloss powder coat finish steel cabinets with 1" fiberglass-free foam insulation (R-4.2 insulation value)
- Accessories available for various custom applications, including two-stage auxiliary heat, fan speed indication, humidifier control, and more
- Cabinet sections are embossed with fan, coil, and other components for easy identification and maintenance

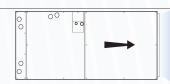
## **VERTICAL AIRFLOW**



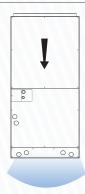
## HORIZONTAL LEFT AIRFLOW



#### HORIZONTAL RIGHT AIRFLOW



## **DOWNFLOW**



For downflow configurations, the CMA-1 is recommended for proper management of condensate to prevent water blowoff in certain conditions.



## ELECTRIC HEATER KIT

An optional supplemental electric heat kit is available if an additional source of heat is required. Mounts directly to the air outlet connection of the multiposition air handler.

## **PWFY** (Hydronic Heat Exchanger)

## Heat and cool water, quickly and efficiently

The PWFY Hydronic Heat Exchanger is available in two configurations, the HEX (-AU) and the Booster (-BU). Each provides unique solutions to incorporate into an existing VRF system for an efficient means to heat and cool non potable water. The PWFY is a closed-circuit water heater that works with the Y-Series or R2-Series outdoor units.



Available Sizes: 36,000 and 72,000 Btu/h

## PWFY-P36/72NMU-E2-AU

- ► Heats water to 113° F
- ▶ Hydronic heat exchanger transfers energy from refrigerant to water
- ► Can be used to recover waste heat from cooling operation to water when combined with any R2-Series, resulting in large energy savings
- ► Cools water to 41° F to be used for cooling outside air, cooling pool water, misting stations and more
- ▶ Applications include radiant heating, snow melting, reheating air, pre-heating hot water and more



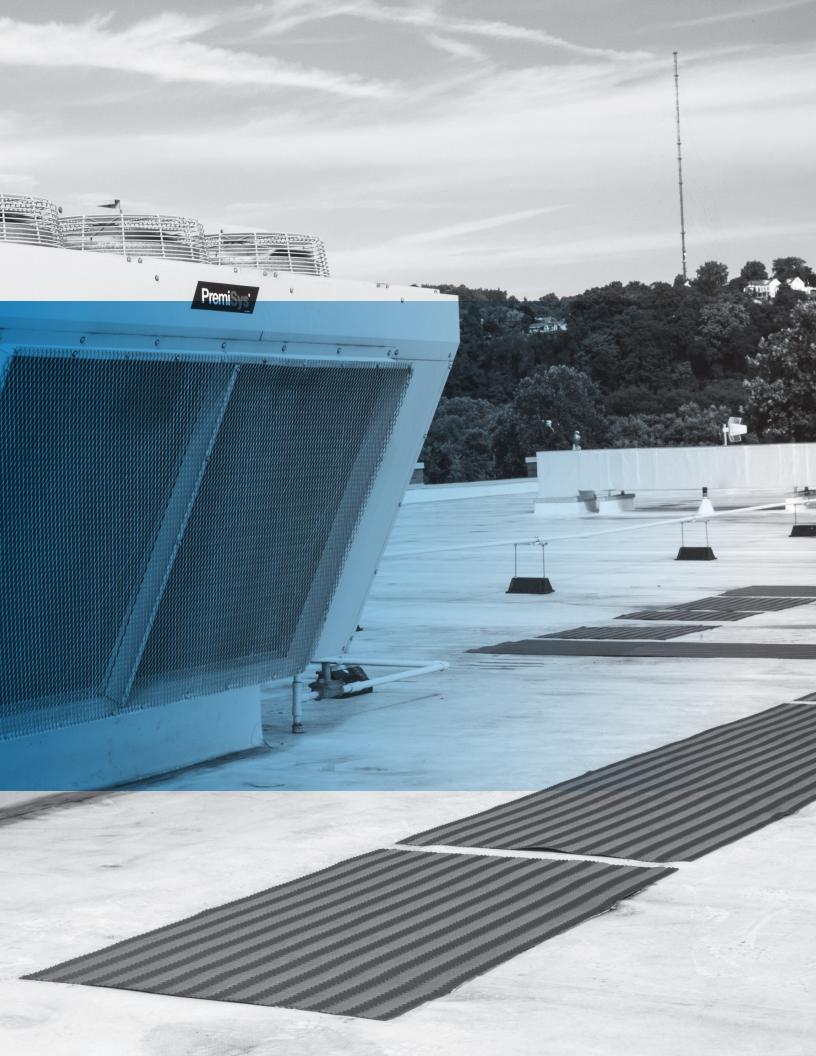
Available Sizes: 36,000 Btu/h

## PWFY-P36NMU-E-BU

- ► Heats water to 160° F
- Hydronic heat exchanger transfers energy from refrigerant to water
- ► Compatible with R2- and WR2-Series
- Can be used to recover waste heat from cooling operation to water, resulting in large energy savings
- ▶ Includes R134A compressor circuit for boosting water temperature
- Applications include radiant heating, hot water preheating, snow melting, reheating air, warming pools, and more







## PREMISYS® DEDICATED OUTDOOR AIR SYSTEM

The PremiSys series of rooftop ventilation products is a premier solution for conditioning outdoor air for commercial buildings. Designed to handle 100% outdoor air with optional energy recovery, PremiSys products offer premium features ideal for handling ventilation air in variable refrigerant flow (VRF) applications.

The PremiSys models MP and MPE (with energy recovery), are pre-engineered to provide semi-custom flexibility while maintaining the quality, consistency, and value of a standardized product.





- New Inverter Compressor option available:
   MP-1 and MPE-1: 5-15 tons
   MP-2 and MPE-2: 15-30 tons
  - Available at 208, 230 and 460V
  - Improves part load efficiency
  - Specifiable feature for precise temperature and humidity control
- New controls platform and web user interface for all MP, MPE and MPF models
- ► Carel Controller Platform Upgrades
  - Expanded points list
  - · Web interface

Unit Size	Nominal Tonnage (tons)	Height	Width	Length	Intake	Condensing Section	Nominal Weight (lbs)	Outdoor Intake	Supply Discharge	Exhaust Discharge
MP-1	5 - 15	59	53	99	22	30	2,700			
MP-2	15 - 30	73	68	109	27	30	4,500		N/ Bottom	N/A
MP-4	20-43	90	68	156	22/27	30	6,400			
MP-5	30-70	99.5	96	185	52.5	NAª	7,950			
MPE-1	5 - 15	59	53	150	22	30	3,400	End	or	C: de
MPE-2	15 - 30	73	68	163	27	30	5,100		Side	Side
MPE-4	20-43	90	68	224	22/27	30	8,300			
MPE-5	30-70	99.5	96	263 <sup>b</sup> 307 <sup>c</sup>	47	NAª	10,450			

#### Notes:

<sup>\*</sup>a Condensing section mounted on top of unit

<sup>\*</sup>b Length with bottom return

<sup>\*</sup>c Length with side return



The PremiSys series of rooftop ventilation products is a premier solution for conditioning outdoor air for commercial buildings. Designed to handle 100% outdoor air with energy recovery models, PremiSys products offer premium features ideal for handling ventilation air in VRF applications.

The PremiSys Fusion is the latest addition to the family of dedicated outdoor air systems. The MPF-1 and MPF-2 (split system with energy recovery) models are pre-engineered to provide semi-custom flexibility while maintaining the quality, consistency, and value of a standardized product. Take advantage of the split-system design to further enhance the flexibility of applying Mitsubishi Electric products to any building.

Unit Size	Nominal Tonnage (tons)	Height	Width	Length	Intake	Condensing Section	Nominal Weight (Ibs)	Outdoor Intake	Supply Discharge	Exhaust Discharge
MPF-1	5-12	59	53	150	22	Remote	3,400	End	Bottom or	C: do
MPF-2	10-20	73	68	163	27	Remote	5,100	Ena	Side	Side

## LOSSNAY® ENERGY RECOVERY VENTILATORS (ERVs)

## Outdoor air solutions for improved indoor environmental quality



- Lossnay core
- Over 50% enthalpy exchange efficiency
- Four fan speeds offering a wide range of airflow variations, from small to large volume
- Independent control of supply and exhaust fans
- M-NET connectivity for use with CITY MULTI central controllers and BMS interfaces
- ► Sound pressure level: maximum sound level 40.5 dB(A)
- ▶ Three ventilation modes: Auto, Bypass, Heat Recovery
- DC motor requiring less than 1W/CFM for all fan speeds

## **Benefits**

#### **INTERLOCK**

Networking systems with Mitsubishi Electric air conditioners has never been easier. The M-NET adapter comes standard, and there is no need to purchase additional parts. Systems can be assembled simply and logically, reducing construction time and keeping initial costs low.

## SYSTEM COMPATIBILITY

The LGH-F-RVX series is fully compatible with our controls network, further increasing the scope of total system management.

# MULTI-FUNCTION LCD REMOTE CONTROLLER

The compact and attractive remote controller with a liquid crystal display is designed for easy visibility.

- ▶ ON/OFF, Run mode, and Ventilation mode
- Filter Maintenance Display
- Controls up to 15 Lossnay units in a single group
- Night Purge
- Timer Operations

## **BYPASS VENTILATION STANDARD**

Lossnay models offer three ventilation modes:

- ► Energy Recovery—Heat Exchange
- Bypass—No Exchange
- Automatic—Heat Exchange/Bypass

With conventional ERVs, bypass ventilation was impossible without attaching additional dampers and adapters. With the LGH-F-RVX series, however, this mode is available without the use of other parts. An automatic mode allows the system to select recovery or bypass as required. Mode selection is easy when interlocked with M-NET systems using the PZ-61DR-E remote controller, which is sold separately.



PZ-43SMF



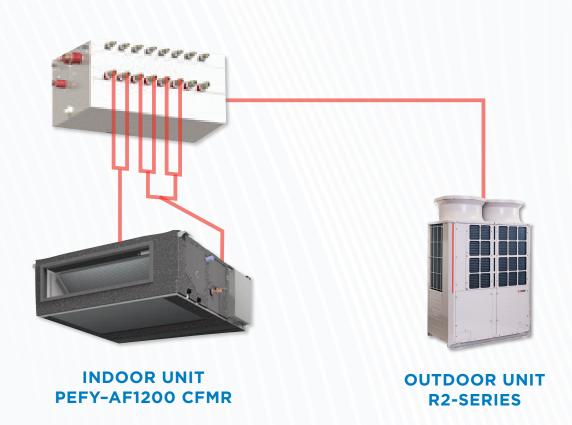
PZ-61DR-E

## **DEDICATED OUTDOOR AIR SYSTEM (DOAS)**

## Provides preconditioned outdoor air

The award-winning PEFY-AF Dedicated Outdoor Air System comes in two configurations, the CFM and the CFMR. Both configurations offer high capacity coils that will condition incoming air, making it suitable for distribution to downstream fan coil units.

## **CFMR**



## PEFY - OA (Ducted Outside Air Unit)

## Indoor air solutions for improved indoor environmental quality

The PEFY - OA is a high-performance indoor unit that improves comfort by bringing in fresh air that can be temperature controlled. Pre-treated air is then supplied to each zone, providing comfort to occupants.

The PEFY - OA is an ideal choice for office buildings, schools, hotels, assisted-living facilities and other applications where ceiling plenum space is available.



- ▶ Ideal for zoned ventilation applications
- Can be used in conjunction with standard indoor units
- ▶ Three modes of operation: cooling, heating, and fan only
- Available in 36,000, 48,000, 72,000, and 96,000 Btu/h capacities
- ▶ Supply air temperature control ranges from 50° FDB to 80° FDB in cooling mode and 63° FDB to 95° FDB in heating mode
- Operating temperature range from 63° FDB to 118° FDB in cooling mode and 14° FDB to 59° FDB in heating mode
- ▶ Multiple external static pressure set points from 0.602 to 1.00 in. W.G.
- ▶ Lineup ranges in airflow volume from 350 to 1,200 CFM
- ▶ High efficiency DC fan motor with three fan speed options
- ▶ Integrated condensate lift mechanism provides up to 27-9/16" of lift
- ► Compatible with CITY MULTI outdoor units excluding S-Series (PUMY)
- Optional filter box available with MERV 13 filters

## **CONTROLLER FOR PEFY-OA DUCTED OUTSIDE AIR UNIT**

- Easy-to-use MA remote controller
- ▶ Back-lit LCD screen
- Basic operations
  - On/Off
  - Preset temperature setting: Cool, Dry, Heat, and Auto
  - Fan speed setting
  - Vane setting
  - Automatic cooling/ heating operation
  - Timer: On/Off timer and

Auto-off timer

- Weekly timer
- Energy saving: Automatic return to the preset temperature, setting the energy-saving operation schedule
- Ventilation operation



PAR-30MAOA

## INDOOR AIR QUALITY

The PEFY-OA indoor units provide conditioned outside air to a space, helping building owners, engineers and architects meet requirements for ventilation and increase indoor air quality.

## **QUIET OPERATION**

The specially designed centrifugal fan provides exceptionally quiet operation, even at high operating speeds, down to 35 dB(A).

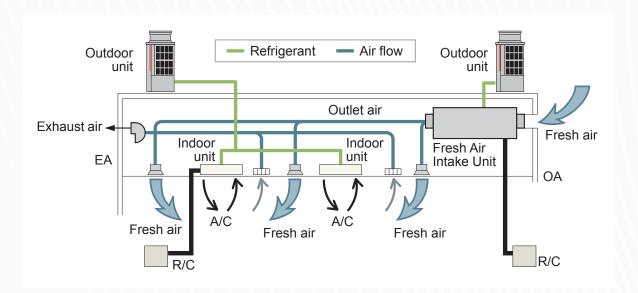
# BUILT-IN CONDENSATE LIFT MECHANISM

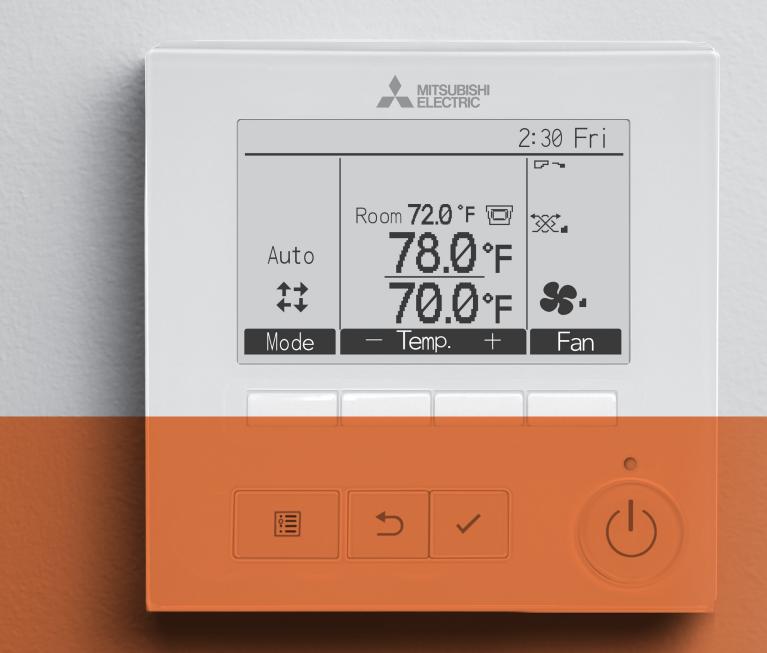
The drain pipe can be positioned anywhere up to 27-9/16" from the bottom of the unit allowing for long piping and versatility. A built in safety switch halts operation if the pump experiences a problem or if the drain becomes clogged, ensuring no water leaks occur.



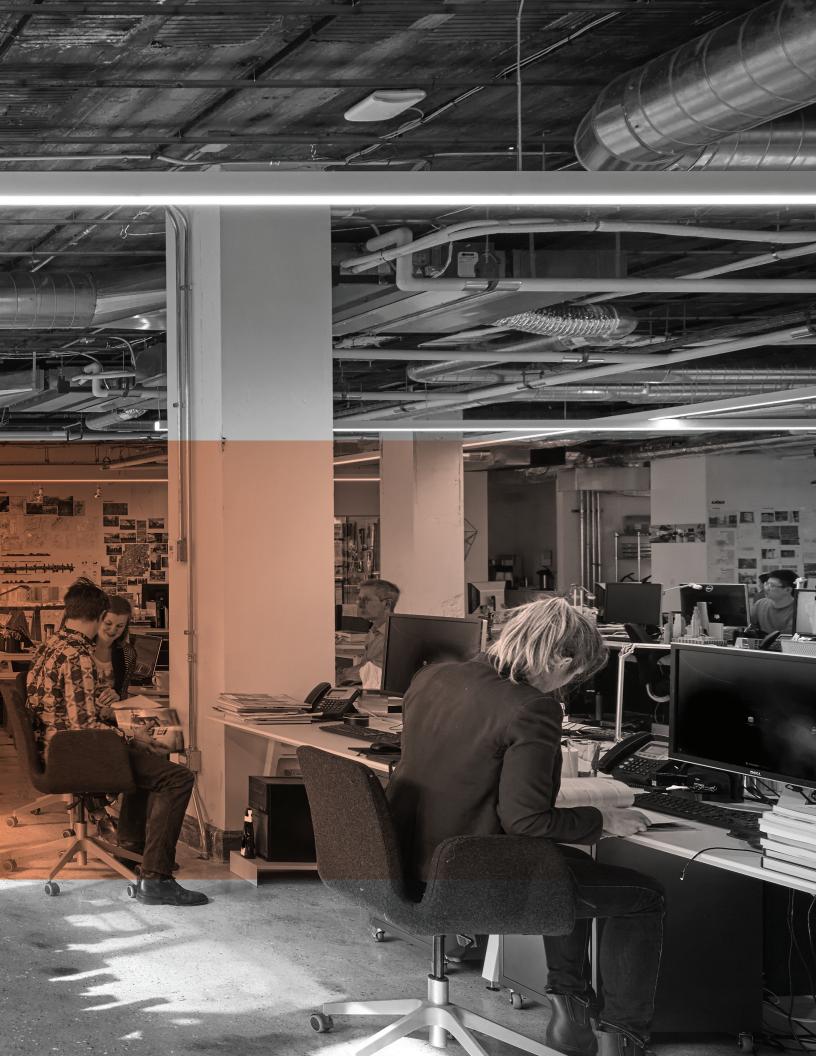
#### **CHOICE OF EXTERNAL STATIC PRESSURE**

Additional external static pressure capacity provides flexibility for duct extension, branching, and air outlet configurations. The factory setting can be field-adjusted to match installed ductwork for PEFY-OA indoor units. The PEFY-OA indoor units are available with up to 1.00" W.G. external static pressure.





**CONTROLS AND SOFTWARE SOLUTIONS** 



## CONTROLS NETWORK

# Our CITY MULTI® Controls Network (CMCN) makes it easy to manage your building.

The Integrated Centralized Control Web (ICCW) manages up to 2,000 indoor units from a single networked PC or tablet. The ICCW puts individual, personalized comfort in the hands of the tenants and the building manager.



**Benefits** 

## FLEXIBLE DESIGN FOR CUSTOMIZED, INDIVIDUAL ZONE CONTROL

Building owners and engineers can select from a wide variety of remote controllers and other devices to satisfy the exact level of tenant control on a zone-by-zone basis, while providing the ultimate in personal comfort control. The versatility of the CMCN enables each building's controls network to address the specific design and tenant requirements, while providing unparalleled occupant comfort.

## OPTIONAL EASY-TO-USE CONTROL VIA PC WEB BROWSER

From a web browser on a PC or tablet, the building manager can now monitor, operate and schedule the HVAC system through the central controller. Plus, the building manager can enable tenants to control their own individual zones via a personal web browser on their networked PC, tablet, or smartphone.

## **EASY INSTALLATION**

The CMCN uses simple, non-polar, two-wire control connections. All components are daisy chained and added onto the M-NET communication bus. It all adds up to less labor and materials with quicker installation.

## SINGLE-SOURCE CONTROL FOR UP TO 2,000 INDOOR UNITS

You can control up to 2,000 units with central controllers, empowering the building manager to control the HVAC system for multiple buildings in a business park, educational campus or retirement facility.

#### **ENERGY ALLOCATION**

A centralized controller network configured with the energy allocation option and watt-hour meter(s) can calculate the HVAC energy consumption relative to each indoor unit on a per-tenant basis and generate a CITY MULTI energy allocation per tenant. The Energy Allocation feature is available through the AE-200A/AE-50A/EW-50A centralized controllers.

## SYSTEM INTEGRATION

Not only can our CMCN act as a standalone building management system, it can also integrate with existing systems via LonWorks\* or BACnet\*.

## INTEGRATED CENTRALIZED CONTROL WEB

The Integrated Centralized Control Web (ICCW) enables the user to control multiple AE-200A/AE-50A /EW-50A centralized controllers and provide enhanced functions from any networked PC, tablet or smart phone. ICCW is capable of controlling up to 2,000 indoor units in conjunction with our centralized controllers.



## **ENERGY ALLOCATION**

- Allocates the energy cost of the outdoor unit(s) power consumption to building tenants based on the capacity used by their indoor units
- Great for condos and multiple tenant spaces
- Requires a software license ( LIC-CHARGE)

## **TABLET**

## FLOOR PLAN:



## SCHEDULE:



**ALL GROUPS:** 



**HOME SCREEN (TABLET):** 

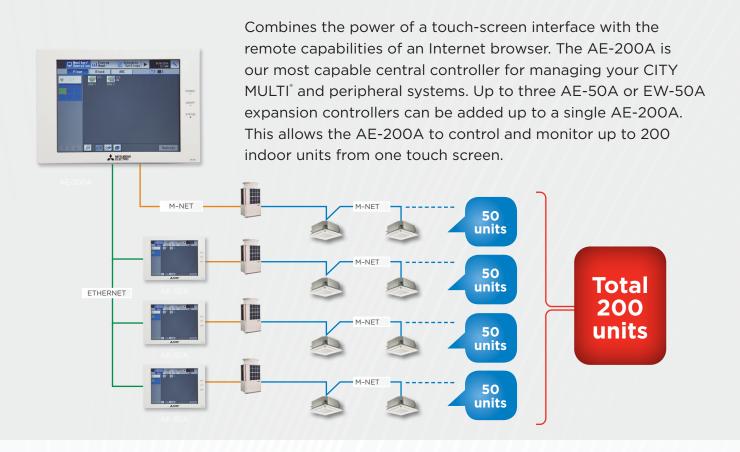


## **SMARTPHONE**



Note: requires a license (LIC-PWEB)

## AE-200A/AE-50A CENTRALIZED CONTROLLER



# PROVIDE ASSISTANCE IN IDENTIFYING ENERGY SAVINGS BY COMPREHENSIVELY SHOWING THE ENERGY CONSUMPTION OF HVAC EQUIPMENT

Energy consumption of HVAC equipment by individual area is displayed graphically on the controller's interface. This enables comparisons with the previous year's power consumption as well as provides a view to performance against electric usage targets. Floor layout is displayed on the 10.4" LCD touch panel which facilitates easier operation of HVAC equipment.

# ESTABLISH THE OPTIMAL SYSTEM BASED ON THE SCALE OF YOUR FACILITY

The AE-200A allows a user to control up to 50 indoor units. The AE-200A can increase its control capabilities to a maximum of 200 indoor units with the addition of three AE-50A expansion controllers. A PC or tablet connection enables the control of more than 200 indoor units via the ICCW browser.

## **DUAL SET POINT**

When the operation mode is set to Auto (dual set point), two preset temperatures can be set.

Depending on the room temperature, the indoor unit will automatically operate in either the Cool or Heat mode to keep the room temperature within the preset range.

## MONITOR AND OPERATE THE HOT WATER HEAT PUMP THROUGH THE ADDITION OF A PWFY

Centralized batch control with the PWFY is made possible through the use of an AE-200A/AE-50A.



The AE-50A centralized controller can only expand an AE-200A controller, it cannot be used by itself. Three AE-50A controllers can expand an AE-200A to monitor 200 indoor units. It features advanced functionality with expanded monitoring, control, dual set point and trending abilities.



## **CONTROL SCREEN FOR POWER CONSUMPTION**

Energy consumption of an applicable area can be displayed by the month, day, and/or hour. Energy consumption of two different units, groups and block, can be compared within the software. The energy consumption of the fan(s) can be displayed as well.

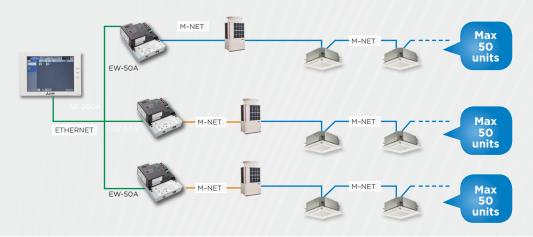
Energy consumption of the HVAC equipment is ranked and displayed by each unique area, thus visualizing high-load components within the system. In addition, a comparison of energy consumption alongside target electric energy usage is possible.

Function	Description
Touch Screen	10.4" high resolution color touch screen
Max No. of Indoor Units	Up to 200 indoor units can be controlled and monitored when three expansion controllers (AE-50A and/or EvW-50A) are networked together.
ON/OFF	On/Off operation for a single group and batch operation
Operation Mode	Setback/Cool/Dry/Auto (R2- and WR2-Series)/Fan/Heat
Temperature Setting	Supports single and dual set point operation with extended set temperature range
Fan Speed Setting	Hi/Mid-2/Mid-1/Low/Auto (Available fan speed settings depending on indoor unit)
Airflow Direction Setting	Swing/Horizontal/Mid-0/Mid-1/Mid-2/Mid-3/Auto (settings vary depending on indoor unit model)
Permit/Prohibit Function	Individual prohibit operations for each remote controller function (ON/OFF, Set Temperature, Operation Mode and Filter Reset)
Indoor Return Air Temperature	Displays the measured return air temperature from each group
Error Indication	Displays a four-digit code and the affected unit address
Test Run Function	Allows indoor units to operate in test mode
Ventilation Interlock	Allows the group to be interlocked with Lossnay unit
Schedule Operation	Annual, Weekly, and Today schedules
External Input/Output	Inputs: Level Signal—Batch Start/Stop, Batch Emergency Stop Outputs: Start/Stop Status, Error/ Normal Status
Power Supply	Built-in
Dimensions — (H x W x D)	7-27/32" x 11-5/32" x 2-17/32"

## **AEW-50A** CENTRALIZED CONTROLLER



The EW-50A centralized controller is a web browser-only centralized controller for managing CITY MULTI\* and peripheral systems. The EW-50A can also connect to an AE-200A over Ethernet to expand it's monitoring capability to up to 200 indoor units when three EW-50A units are used. The EW-50A features advanced functionality with expanded monitoring, control, dual set point and trending abilities.



FUNCTION	DESCRIPTION
Max No. of Indoor Units	Up to 50 indoor units can be controlled and monitored
ON/OFF	On/Off operation for a single group and batch operation
Operation Mode	Setback /Cool/Dry/Auto (R2- and WR2-Series)/Fan/Heat
Function	Hold (temporarily disables schedules)/Initial setting/Operation data back-up
Displays	CITY MULTI compressor speed and hi/low pressure/AdvancedHVAC Controller (DC-AIO) input/output status/ Space temperature and humidity (from SmartME or AI controller)/Error code (four-digit code and the affect- ed unit address)/Unoccupied setback temperature range/Occupancy and brightness status from the SmartME remote controller
Temperature Setting	Supports single and dual set point operation with extended set temperature range
Fan Speed Setting	Hi/Mid-2/Mid-1/Low/Auto (Available fan speed settings depending on indoor unit)
Airflow Direction Setting	Swing/Horizontal/Mid-0/Mid-1/Mid-2/Mid-3/Auto (settings vary depending on indoor unit model)
Permit/Prohibit Function	Individual prohibit operations for each remote controller function include ON/OFF/Set Temperature/Fan speed and direction/Operation Mode/Filter Reset
Ventilation Interlock	Allows the group to be interlocked with Lossnay unit
Schedule Operation	Annual, Today, and Weekly schedules
External Input/Output	Inputs: Level Signal-Batch Start/Stop, Batch Emergency Stop Outputs: Start/Stop Status, Error/Normal Status (requires PAC-YG10HA)
Trending Data	Fan operation time/Thermo-on time/Set temperature/Room temperature/AI controller temperature and humidity
Power Supply	Built-in
Dimensions – (H x W x D)	8-4/16" x 6-13/16" x 3-10/16"

## TC-24B CENTRALIZED CONTROLLER



Customized individual zone control via a bright and easy-to-use touchscreen interface. The TC-24B is perfect for light commercial and residential applications.



Function	Description
Max No. of Indoor Units	Up to 24 indoor units can be connected
ON/OFF	On/Off operation for a single group and batch operation
Operation Mode	Setback /Cool/Dry/Auto (R2- and WR2-Series)/Fan/Heat
Temperature Setting	Supports single and dual set point modes/Set temperature from $57^{\circ}$ F - $87^{\circ}$ F depending on operation mode and indoor unit
Fan Speed Setting	Hi/Mid-2/Mid-1/Low/Auto (Available fan speed settings depending on indoor unit)
Airflow Direction Setting	Airflow angles: $100^{\circ} - 80^{\circ} - 60^{\circ} - 40^{\circ}$ and swing/Airflow direction settings vary depending on indoor unit model
Permit/Prohibit Function	Individual prohibit operations for each remote controller function (ON/OFF, Set Temperature, Operation Mode and Filter Reset)
Indoor Return Air Temperature	Displays the measured return air temperature from each group
Error Indication	Displays a four-digit code and the affected unit address
Ventilation Interlock	Allows the group to be interlocked with Lossnay unit
Schedule Operation	Weekly schedule can be set by groups based on operation pattern
External Input/Output	Inputs: Level Signal-Batch Start/Stop, Batch Emergency Stop Outputs: Start/Stop Status, Error/Normal Status
Power Supply	PAC-SC51KUA
Dimensions - (H x W x D)	4-3/4" x 7-1/8" x 1-3/16"

## LICENSE OPTIONS FOR CENTRALIZED CONTROLLERS

Centralized controllers support operations that supersede simple control of the HVAC system and include system configuration, scheduling, batch operation, and malfunction monitoring through license options. These license options further expand the functionality of our centralized controller offerings.

## **OPTIONAL LICENSES**

## PERSONAL WEB BROWSER (LIC-PWEB)

Allows facility managers individual users to control their zone conditioning via personal networked PC, tablet or smart phone with or without remote controllers. Personal web browser is only supported on AE-200A, AE-50A, and EW-50A centralized controllers.

## **BACnet TCP/IP COMMUNICATION (LIC-BACNET)**

Allows for BACnet\* TCP/IP communication from a centralized controller to third-party building management software via an Ethernet connection. The BACnet license is only supported on the AE-200A, AE-50A, and EW-50A centralized controllers.

## **ENERGY ALLOCATION (LIC-CHARGE)**

Provides the ability for the AE-200A to allocate the outdoor unit(s) power consumption to building tenants based on the capacity used by their indoor units. Note that there are additional components required to complete a full Energy Allocation installation.

	Part Number	Description	AE-200A	AE-50A	EW-50A
	LIC-CHARGE	Energy Allocation	•	•	•
OPTIONAL LICENSES	LIC-PWEB	Personal Web Browser	•	•	•
	LIC-BACNET	BACnet® TCP/IP communication	•	•	•
OPTIONAL ACCESSORIES	PAC-YG84UTB-J	Electric Box	•	•	
	PAC-YG86TK-J	Mounting Kit (for control panel)	•	•	
	PAC-YG82TB-J	Mounting Attachment (for wall surface)	•	•	
	PAC-YG72CWL-J	Surface cover with USB port	•	•	







PAC-YG84UTB-J



PAC-YG86TK-J



PAC-YG72CWL-J

## PAC-YG6OMCA INPUT/OUTPUT CONTROLLER



The PAC-YG60MCA Pulse Input (PI) Controller makes it possible to perform energy saving and energy allocation initiatives. A maximum of four (4) measurement meters (WHM, gas meter, water meter, and calorie meter) can be connected to the PI Controller and trended within the Centralized Controller. (Note: 24VDC power needs to be provided on-site.)

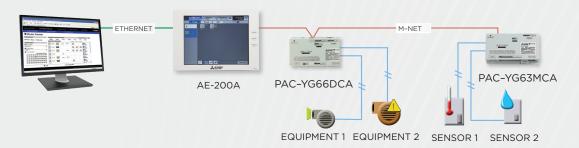


FUNCTION	DESCRIPTION
Display	Displays measurement data via AE-200A, AE-50A, and EW-50A web browser
Monitor	Watt-hour meter, water meter, gas meter, calorimeter
Input	Quantity of 4 non-voltage pulse inputs
Fail-safe device	An internal capacitor will continue to track time for one week in the event of a power failure
Power Supply	24 VDC, 5 W, 0.2 A
Communication	M-NET
Dimensions — (H x W x D)	1-13/16" x 7-7/8" x 4-3/4"

# PAC-YG66DCA & PAC-YG63MCA INPUT/OUTPUT CONTROLLER



The PAC-YG66DCA Digital Input Digital Output (DIDO) controller makes it possible to control general-purpose equipment with an AE-200A, AE-50A, EW-50A, or TC-24B centralized controller. Connect up to six (6) pieces of equipment to the DIDO controller. The equipment can either be scheduled or interlocked with indoor units through the use of a centralized controller. (Note: 24 VDC power is required on-site.)



## STANDARD FEATURES

FUNCTION	DESCRIPTION				
Inputs	Qty two Digital Status Inputs and 2 Digital Error Inputs (Non-Voltage Contacts)				
Outputs	Qty two Digital Outputs (Non-Voltage Relay Contact   Use only VDC with outputs				
Monitor	Status, Fault   Requires AE-200A, AE-50A, EW-50A, or TC-24B Centralized Controller				
Control	On/Off, Start/Stop, Enable/Disable   Requires AE-200A, AE-50A, EW-50A, or TC-24B Centralized Controller				
Schedule Operation	Weekly schedule can be set by groups based on operation pattern Requires AE-200A, AE-50A, EW-50A, or TC-24B Centralized Controller				
Interlock Function	Interlock M-NET devices and output contacts according to status of input contacts				
Power Supply	24 VDC (5W plus loads)				
Communication	M-NET				
Dimensions — (H x W x D)	4-3/4" x 7-7/8" x 1-13/16"				



The AI Controller makes it possible to monitor values measured by the temperature and humidity sensors connected to the AI Controller. The AI Controller has two input and two output channels and is required to be connected with an AE-200A, AE-50A, or EW-50A centralized controller. The user can trend measured data on a Web browser and set alarms to output via e-mail when data exceeds a preset upper or lower limit. (Note: 24 VDC power is required on-site.)

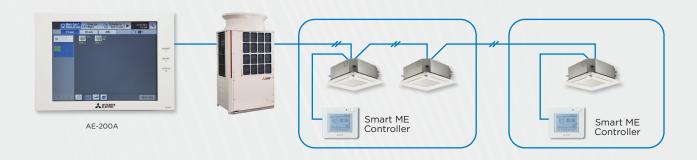
FUNCTION	DESCRIPTION
Inputs	Qty two Analog Inputs (0/10 VDC, 4/20 mA, 1-5 VDC)
Outputs	Upper/lower limit alarm output (non-voltage contact)
Monitor	Temperature and/or Humidity Requires AE-200A, AE-50A or EW-50A centralized controller and field supplied sensor
Interlock Function	Interlock M-NET devices and output contacts according to measured values on inputs
Alarms	Generate alarm based on user defined high and low limits
Power Supply	24 VDC (5W)
Communication	M-NET
Dimensions — (H x W x D)	4-3/4" x 7-7/8" x 1-13/16"



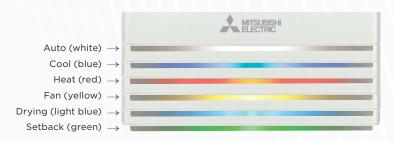
PAR-U01MEDU

## **SMART ME CONTROLLER®**

- Intuitive backlit touch screen
- ▶ Group control up to 16 indoor units in a single zone
- Onboard temperature, humidity, occupancy, and brightness sensors
- ▶ Monitors third-party equipment through AdvancedHVAC controller
- Supports dual set point and setback functions
- Improved scheduling
- ▶ Color glow status indicator LED bar
- Dimensions (H x W x D): 4-3/4" x 5-9/16" x 1"



#### **COLOR GLOW STATUS INDICATOR**



The LED bar indicates the operation status by lighting and blinking with different colors and brightness (High/Low), or by turning off. Multiple operation status indicators include blue (Cooling), light blue (Drying), yellow (Fan), white (Auto), green (Setback), red (Heating) and lime (Energy Save). Advanced settings are available for selecting desired color per mode, LED brightness (in conjunction with room brightness sensor), and temperature range indicator.

#### **ENERGY SAVE FUNCTION**

The Energy Save function reduces energy consumption during vacancy. The user can select a mode for the Energy Save function which is activated based on vacancy detection in a room, including the following:

- ▶ Thermo-off: Puts the unit into the Thermo-off state
- Set temperature offset: Offsets the set temperature
- Fan speed down: Sets the fan speed to Low
- ► ON/OFF: Turns off the unit
- Operation mode: Sets the operation mode to Setback

#### **OCCUPANCY SENSOR**

The built-in Occupancy Sensor is used to detect movement in a room. If the sensor detects no movement (or "vacancy") it will activate the selected Energy saving function mode. The Occupancy Sensor returns the system to original operating status after detecting movement. The user can adjust the away time and detection sensitivity threshold level for the Occupancy Sensor. Brightness can also be used in conjunction with motion to determine occupancy.

## **TOUCH MA & kumo cloud® ZONED CONTROLLERS**

## Full color touch panel customizable display



PAR-CT01MAU-SB

## **TOUCH MA**

- ► Controls up to 16 indoor units
- ▶ Backlit LCD: full color, touch screen display includes 180 color patterns
- ▶ ON/OFF timer: turns on and off daily at a set time
- ► Fan speed settings
- Large icons for easy readability
- ► Bluetooth® app for users & installer
- Dimensions: 2-9/16" x 4-23/32" x 9/16"
- Customize display with customer logo or background colors



## kumo cloud®

- Compatible with CITY MULTI® and M- and P-Series systems without a central controller
- ► Requires the Mitsubishi Electric Wireless Interface (PAC-USWHS002-WF-2)
- Easy to connect the device to your router using the kumo cloud app
- ► App compatible software platforms:

Apple iOS 8.0 or later

Android 4.1 or later

Fire OS 4.1 or later

- Intuitive settings for simplified use:
  - 1. Group units together
  - 2. Organize groups into sites
  - 3. Batch command units
- ► Error and filter status pop-up
- Advanced functions settings for Mand P-Series equipment















## **DELUXE MA & SIMPLE MA** ZONED CONTROLLERS

## Wired remote controller ideal for easy operation, convenience, and energy savings



PAR-40MAAU

## **DELUXE MA**

- Controls up to 16 zones
- Large easy-to-see backlit LCD with two display modes: Full or Basic
- ► Interlock and control Lossnay units
- Operation modes: Auto, Cool, Heat, Dry, Fan
- Fan speed settings
- ► Controls air direction (vane direction and ventilation)
- Dimensions: 4-3/4" x 3/4" x 4-3/4"
- Dual set point functionality
- Automatically adjust for Day Light Savings time
- ► Control i-see Sensor<sup>™</sup> equipped cassettes indoor units

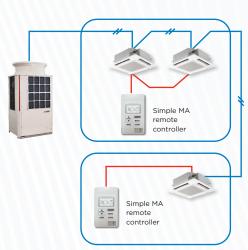
## Easy-to-use remote for temperature and operation mode control



PAC-YT53CRAU

## SIMPLE MA

- ► Controls up to 16 zones
- Backlit LCD
- Operation modes of Cool, Heat,
   Dry, Fan, Auto, Ventilation, Setback
   (depending on connected equipment)
- ► Fan speed settings
- Controls air direction (vane direction and ventilation)
- Dimensions: 2-3/4" x 1-5/8" x 4-3/4"
- Dual set point functionality



## WIRELESS MA ZONED CONTROLLERS

Easy-to-use hand-held remote for temperature and operation mode control for CITY MULTI® and P-Series systems



## WIRELESS MA REMOTE CONTROLLER AND MA RECEIVER



PAR-FL32MA

- ▶ Hand-held wireless remote control of up to 16 indoor units
- ▶ Operation modes of Cool, Heat, Dry, Fan, Auto, Ventilation
- Fan speed, airflow direction settings
- ▶ Compatible with P-Series and CITY MULTI systems
- Requires PAR-FA32MA Wireless Receiver. (Built-in as standard on PKFY models)
- ▶ Dimensions Remote: 2-5/16" x 3/4" x 5-1/4" Receiver: 2-3/4" x 7/8" x 4-12/16"

## SYSTEM INTEGRATION



The Mitsubishi Electric LonWorks interface, LMAPO4U, supports up to 50 indoor units with a variety of network variables on a per indoor unit basis. Input variables include, but are not limited to: On/Off, Operation Mode, Fan Speed, Prohibit Remote Controller, and Filter Sign Reset. Output variables include but are not limited to: Model Size, Alarm State, Error Code, and Error Address.

### **LonWorks**



- ▶ Up to 50 units (CITY MULTI\*, M-Series, P-Series and/or Lossnay) can be connected with one LonWorks interface
- Operation/Setting: Request On/Off, Set Point, Request Lossnay Mode, Request Fan Speed, Request Local Prohibit On/Off and Set Point, Request Forced Thermostat Off, Filter Sign Reset, Time Stamp, Request Limit Temperature Setting Range, Request Simplified Locking
- ► Features a built-in power supply (208/230 VAC)
- Dimensions: 13-7/16" x 14-3/16" x 2-3/8"

The AE-200A/AE-50A/EW-50A centralized controllers are BTL (BACnet Testing Laboratories) listed, demonstrating their compliance with ASHRAE standards and their compatibility with building management systems supporting the BACnet TCP/IP communication protocol.

### **BACnet® LICENSE**

- Connect up to 50 indoor units per licensed centralized controller
- Supports the monitoring and operation of CITY MULTI indoor units, M- and P-Series indoor units (requires additional adapter), and Lossnay\* ERV units
- ▶ BACnet TCP/IP Ethernet connection only

See page 64 for licensing centralized controllers

## **BUILDING CONNECT<sup>+</sup>**

A cloud-based integration solution that seamlessly connects CITY MULTI® VRF and third-party equipment under one simple-to-use interface

Building Connect+ is a cloud based ready to use platform to monitor and control your CITY MULTI and third party equipment. Seamlessly connect up to 50 VRF indoor units, 5 BACnet devices and 8 other pieces of equipment using digital I/O. Remote connectivity allows you to view any number of Building Connect+ installations without the need for additional licenses or equipment.

This Contractor focused integration package reduces initial costs and commissioning time through the use of a pre-programmed local broker and web based portal. Standard user friendly features include user management, alarming, scheduling, trend builder and a cloud based data hub. Pre-programmed applications like auto-changeover make this turnkey solution the simple and easy way to monitor a complete HVAC system.





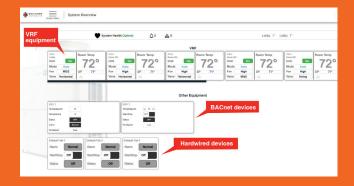


## **BUILDING CONNECT<sup>+</sup>**

### **FEATURES AND BENEFITS**

- Connect up to 50 indoor units per licensed centralized controller
- Out-of-the-box cloud-based intergration solution for controlling and monitoring CITY MULTI® equipment and third-party devices
- Connect multiple installations and users across varied geographic locations
- Easy installation and commissioning because it does not require any special software or tools
- Full set of Mitsubishi Electric CITY MULTI maintenance tool data for monitoring, troubleshooting, and analytics.
- Multilevel user accounts to allow for different feature permissions and equipment access
- Weekly and Holiday scheduling of individual indoor units or the entire system for personal comfort and increased energy savings
- ▶ Data trending and downloading capabilities for system performance review and evaluation.
- Email notifications and display for all connected equipment.





The configuration wizard auto-discovers the connected CITY MULTI® and BACnet® equipment. No programming is required. Configuration is through a simple built-in web portal for ease of use and expedited commissioning. No special software or licenses required

### FEATURES AND BENEFITS (CONTINUED)

- Auto import functionality identifies and adds new units during startup and commissioning
- Auto Changeover application allows for users to enable and manage the settings.
- Local and remote user connectivity using computer, tablets, or mobile devices
- ▶ Global batch commands for streamlining operations
- Secure access with two-factor user authentication powered by Google Authenticator
- Intuitive graphical user interface for easy web connectivity and system configuration

## DIAMOND CONTROLS™

# A branded, bundled, and seamless building controls solution designed to extend the capabilities of your CITY MULTI® equipment.

Mitsubishi Electric's Diamond Controls is powered by the industry-leading Niagara Framework\*, the industry's first software technology designed to integrate diverse building systems and devices into one seamless system. Niagara supports a wide range of protocols, including LonWorks®, BACnet®, Modbus®, oBIX and Internet standards. The Niagara Framework also includes integrated network management tools to support the design, configuration, installation and maintenance of interoperable networks.



### DC-8000

The Mitsubishi Electric DC-8000 is an embedded controller/

server platform that combines integrated control, supervision, data logging, alarming, scheduling and network management functions into a small, compact platform with network connectivity and web serving capabilities. The DC-8000 makes it possible to control and manage external devices over the network, presenting real-time information to users in web-based graphical views.



#### **DCPro**

The Mitsubishi Electric
DCPro is a flexible network
server for all connected
DC-8000 stations. The

DCPro provides efficient integration of standard open protocols. The DCPro creates a powerful network environment with comprehensive database management functionality, alarm management, and messaging services. DCPro can manage global control functions, support data passing over multiple networks, connect to enterprise-level software applications, and host multiple, simultaneous client workstations connected over a local network or the Internet.

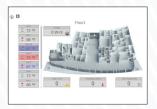
### **CONTROLS SOLUTIONS**

Controls Solutions is a group of industry experts located across the country who are ready to assist with every aspect of Mitsubishi Electric Cooling & Heating systems. By utilizing Controls Solutions, a building owner has peace of mind that the project will seamlessly move forward with minimal hiccups. With one company providing the equipment and the controls, project execution is much more efficient.

#### **Controls Solutions offerings include:**

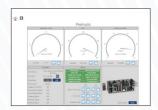
- Project Supervision
- Owner Training
- System Start-up
- Project Training
- System Commissioning
- Design Support
- Retro-commissioning
- System Evaluation

## DIAMOND CONTROLS™ APPLICATIONS



#### **HIGH-RESOLUTION 3D GRAPHICS**

Diamond Controls enables a new graphical user experience for variable refrigerant flow (VRF) zoning systems with the inclusion of high resolution three-dimensional floor plan graphics of your building.



### **DEMAND RESPONSE COMPLIANCE**

Demand Response programs help utilities maintain grid reliability and enable customers to realize significant value. Diamond Controls provides Demand Response compliance to a building owner through OpenADR.



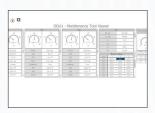
### LIGHTING CONTROL

Diamond Controls can manage a building's lighting system through integration with third-party equipment. Lighting control provides a building manager the ability to set lighting schedules, which can be overridden by local switches if necessary.



### **CENTRAL PLANT CONTROL**

Diamond Controls can monitor, control, and schedule a central plant to provide chilled or hot water for the building's needs without requiring additional third-party controls.



### **ADVANCED ALARMING**

Diamond Controls advanced logic enables superior alarming capabilities for building awareness, as well as VRF zoning systems. The building owner can set up multiple alarm conditions ranging from simple out-of-range alarms to advanced condition alarms.



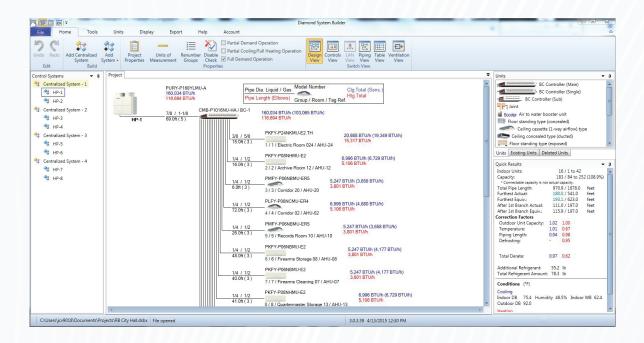
### **HVAC EQUIPMENT INTEGRATION**

Diamond Controls can schedule, monitor, control, and integrate advanced logic within various HVAC manufacturers' equipment. Diamond Controls can also easily integrate into an existing building management system (BMS).

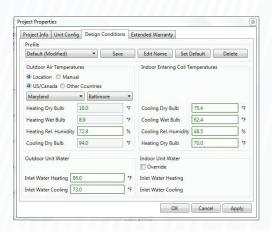
## DIAMOND SYSTEM BUILDER™

# Diamond System Builder is an interactive system layout tool providing a simple and efficient means of system design.

Diamond System Builder (DSB) helps users determine the cooling and heating output of selected equipment for project-specific conditions. The program has error indicators and built-in safeguards against exceeding limitations, assuring line lengths, maximum connected capacities, component selections, control schemes, etc. are within the system requirements.

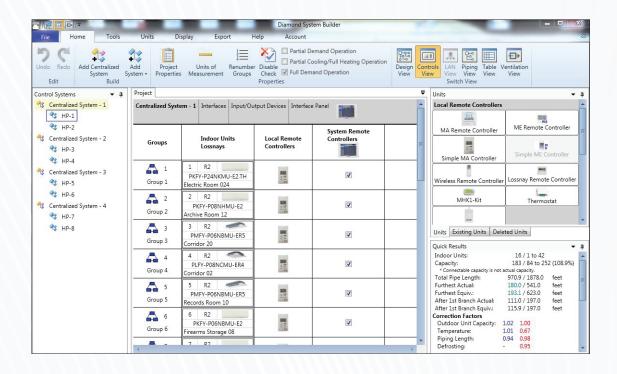


### **PROJECT PROPERTIES**



System design conditions, such as indoor and outdoor design conditions, are easily entered for both cooling and heating. Customer and project names can be entered to identify the job on the outputs.

### **DSB INTERFACE**



Optional functions to customize the system layout to your project are available, such as labeling groups with a room name, adding equipment tags to pieces of equipment, and giving each system a project-specific name. Other features, like a custom equipment schedule, submittal packages, and AutoCAD drawings are available once the system layout has been finalized.

### **REVIT AND AUTOCAD OUTPUTS**



## UNIVERSAL MAINTENANCE TOOL

### Easy-to-use, Windows®-based Maintenance Tool software

The new Universal Maintenance Tool software is the fast and easy way to monitor operation of CITY MULTI\*, M-Series and P-Series systems.\* Upgrades to hardware and software allow for efficient access to system data, reducing time needed to determine operational status and troubleshoot system errors. Monitor temperature, pressure, Linear Expansion Valve (LEV) position, electrical data and much more. Information is updated every minute. View status of connected indoor units among many other capabilities.

Maintenance Tool also allows a user to record and save system data for trending and future error code analysis as well as extended warranty and troubleshooting purposes.

<sup>\*</sup> separate cables required to access M- Series and P-Series data.

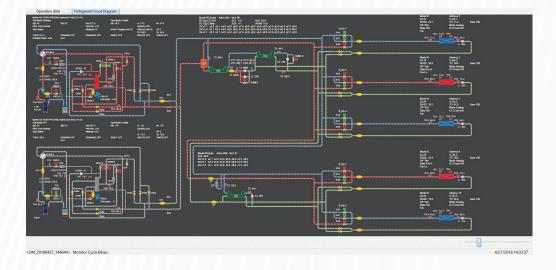


PAC-USCMS-MN-1

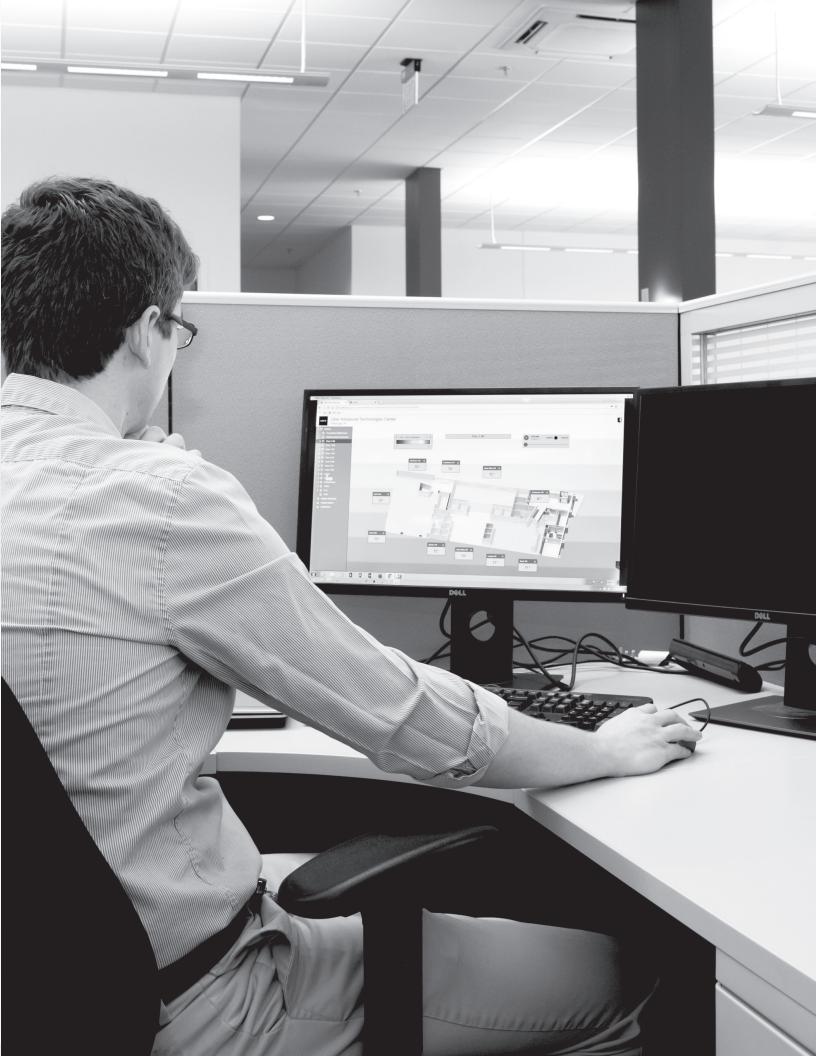
### MN CONVERTER

- MN-Converter features a sleek design that fits in the palm of your hand
- ▶ Efficiently pinpoint and troubleshoot system errors
- ▶ Easily access more system data in multiple ways
- Animated graphics-based system view enables easier on-site diagnosis and troubleshooting
- Directly connectable to a PC via USB cable
- Includes built-in SD CARD for capturing system operational data after connecting to M-NET

Maintenance Tool data is automatically stored on the SD card, eliminating the need for a PC, until you want to review the data on the SD card.



The Operation Status view displays the operational data for the connected system, including system pressures, temperatures, LEV position, compressor frequency, current operation mode, and more.









## PURY-P\*\* (T/Y) NU-A

# SPECIFICATIONS: ▼ R2-SERIES (STANDARD EFFICIENCY)

	SPECIFICATION		MODEL NAMES						
VOLTAGES		208V /230V	PURY-P72TNU-A (-BS)	PURY-P96TNU-A (-BS)	PURY-P120TNU-A (-BS)	PURY-P144TNU-A (-BS)	PURY-P168TNU-A (-BS)		
762823		460V	PURY-P72YNU-A (-BS)	PURY-P96YNU-A (-BS)	PURY-P120YNU-A (-BS)	PURY-P144YNU-A (-BS)	PURY-P168YNU-A (-BS)		
Power Source				3-phas	e 3-wire 208-230 V ±10%	6 60 Hz			
- ower course				3-ph	ase 3-wire 460 V ±10% 6	60 Hz			
Capacity	Cooling	Btu/h	72,000	96,000	120,000	144,000	168,000		
(Nominal)	Heating	Btu/h	80,000	108,000	135,000	160,000	188,000		
	MCA	А	24-22 11	33-30 15	43-40 18	52-48 20	61-57 28		
			40-35	50-45	70-60	80-70	100-90		
Electrical	MOP	A	15	20	25	30	40		
Supply	SCCR	А			5				
	Recommended Fuse Size	A	30	40	50	60	70		
			15	20	25	30	40		
	Type X Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2		
Fan	Airflow Rate	CFM	6,000	7,400	8,300	9,550	14,850		
	External Static Pressure			Selectable; 0, 0.1	2, 0.24, 0.32 in.WG; facto	ory set to 0 in.WG			
	Type X Quantity			Inverte	r scroll hermetic compre	essor x 1			
Compressor	Operating Range		15% to 100%	15% to 100%	15% to 100%	15% to 100%	15% to 100%		
	Lubricant				MEL32				
Refrigerant	Туре				R410A				
External Finish			Pre-co	pated galvanized steel sh	eet (+nowder coating fo	r -RS type) <miinsell< td=""><td>5V 8/1&gt;</td></miinsell<>	5V 8/1>		
ZXCOTTIGIT TITLOTT	I la la la la					. 20 () po) 11 (01 (0222 )			
	Height	In.			71-5/8				
Dimensions	Width		36-1/4	48-7/8	48-7/8	48-7/8	68-29/32		
	Depth		29-5/32						
			483	576	598	646	739		
Net Weight		lbs.	516	611	633	682	774		
Sound Pressure Lev (Measured in Anech		dB(A)	56.5/58.0	58.5/60.0	60.0/62.0	65.0/65.5	62.5/66.5		
Sound Pressure Lev (Measured in Anech	rel	dB(A)	75.5/77.0	77.5/79.0	80.0/80.5	85.5/85.5	81.0/85.5		
	High Pressure			High pressure sense	or, High pressure switch a	at 4.15 MPa (601 psi)	l		
Protection Devices	Inverter Circuit		Over-heat protection, Over-current protection						
	(Compressor/Fan)  Liquid (High Pressure) Brazed)		5/8 Brazed	3/4 Brazed	3/4 Brazed	7/8 Brazed	7/8 Brazed		
Refrigerant Pipe Dimensions	Gas (Low Pressure) (Brazed)	In.	3/4 Brazed	7/8 Brazed	1-1/8 Brazed	1-1/8 Brazed	1-1/8 Brazed		
Indoor Unit	Total capacity		50-150% of outdoor unit capacity						
Connectable	Model / Quantity		P05~P96/1~18	P05~P96/1~24	P05~P96/1~30	P05~P96/1~36	P05~P96/1~42		
Guaranteed	Cooling (Outdoor) *2				23~126°F (-5~52°C)		l		
Operating Range *1					-4-60°F (-20~15.5°C)				
Extended Operat- ing Range *4	Heating (Outdoor)				-18~60°F (-28~15.5°C)				
<u> </u>	EER (Ducted/Non-Ducted)		13.1 / 14.7	12.8 / 14.5	12.1 / 13.2	11.0 / 12.2	10.6 / 11.0		
Efficiency	IEER (Ducted/Non-Ducted)		23.8 / 29.2	25.5 / 31.9	23.3 / 28.8	23.1 / 28.7	21.3 / 25.8		
Ratings *5	COP (Ducted/Non-Ducted)		3.76 / 4.09	3.88 / 4.14	3.61 / 4.01	3.43 / 3.84	3.30 / 3.80		
	SCHE (Ducted/Non-Ducted)		25.9 / 25.5	23.5 / 28.3	25.3 / 29.1	24.8 / 27.7	24.7 / 28.3		

#### NOTES

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor:  $80^{\circ}\text{FD.B./67}^{\circ}\text{FW.B.}$  (26.7°CD.B./19.4°CW.B.), Outdoor:  $95^{\circ}\text{FD.B.}$  (35°CD.B.)

- 1. Harsh weather environments may demand performance enhancing equipment. Ask your Mitsubishi Electric representative for more details about your region.
- 2. For details on extended cooling operation range down to -10  $^{\circ}$  F DB, see Low Ambient Kit Submittal.
- 3. When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
- 4. Unit will continue to operate in extended operating range, but capacity is not guaranteed.
- 5. Efficiency ratings are based on AHRI 1230 test method



## PURY-P\*\* (T/Y) NU-A

VOLTAGES   With 2 PURY-P96TNU-A (-BS)   With 1 PURY-P120TNU-A (-BS)   With 2 PURY-P120TNU-A (-BS)   And 1 PURY-P96TNU-A (-BS)   PURY-P120TNU-A (-BS)   PURY-P120TNU-A (-BS)   PURY-P264   PURY-P96YNU-A (-BS)   PURY-P120YNU-A (-BS)   PURY-P120YNU-A (-BS)   PURY-P120YNU-A (-BS)   PURY-P120YNU-A (-BS)   PURY-P120YNU-A (-BS)   With 2 PURY-P120YNU-A (-BS)   with 1 PURY-P120YNU-A (-BS)   with 2 PURY-P120YNU-A (-BS)   And 1 PURY-P120YNU-A (-BS)   With 2 PURY-P120YNU-A (-BS)   PURY-P12	P144TNU-A (-BS) P144TNU-A (-BS) P120TNU-A (-BS) P144YNU-A (-BS) P144YNU-A (-BS) P144YNU-A (-BS) P144YNU-A (-BS) P150YNU-A (-BS)						
VOLTAGES  VOLTAGES  VOLTAGES  VOLTAGES  VOLTAGES  (-BS)  With 2 PURY-P961NU-A (-BS) and 1 PURY-P961NU-A (-BS) and 1 PURY-P961NU-A (-BS) (-BS)  PURY-P961NU-A (-BS) PURY-P261NU-A (-BS) With 2 PURY-P264YSNU-A (-BS) PURY-P264YSNU-A (-BS) With 2 PURY-P120YNU-A (-BS) PURY-P120YNU-A (-BS) With 2 PURY-P120YNU-A (-BS) PURY-P120YNU-A (-BS) With 2 PURY-P120YNU-A (-BS)	P120TNU-A (-BS) P144YNU-A (-BS) P144YNU-A (-BS) P120YNU-A (-BS)						
Pury-P192YSNU-A (-BS)	P144YNU-A (-BS) 120YNU-A (-BS) 4,000						
With 2 PURY-P96YNU-A (-BS)   With 1 PURY-P120YNU-A (-BS)   with 2 PURY-P120YNU-A with 1 PURY-P and 1 PURY-P	4,000						
Power Source   3-phase 3-wire 460 V ±10% 60 Hz	-						
Capacity (Nominal)         Cooling         Btu/h         192,000         216,000         240,000         260           Heating         Btu/h         215,000         243,000         270,000         295           MCA         A         Refer to: Refer to: PURY-P96TNU-A (-BS)         Refer to: PURY-P120TNU-A (-BS)	-						
Heating   Btu/h   215,000   243,000   270,000   295	-						
MCA         A         Refer to: PURY-P96TNU-A (-BS)         Refer to: PURY-P96TNU-A (-BS)         Refer to: PURY-P120TNU-A (-BS)         Refer to: PURY-P120TNU-A (-BS)         PURY-P120TNU-A (-BS)         PURY-P1	5,000						
MCA         A         PURY-P96TNU-A (-BS)         PURY-P120TNU-A (-BS)         PURY-P12							
Electrical Supply  SCCR A PURY-P96YNU-A (-BS) PURY-P120YNU-A (-BS) PURY-P120YNU-A (-BS) PURY-P120YNU-A (-BS) PURY-P144	4TNU-A (-BS)						
	OTNU-A (-BS)						
	4YNU-A (-BS)						
Recommended Fuse Size PURY-P96YNU-A (-BS) PURY-P12C	OYNU-A (-BS)						
Type X Quantity							
Fan Airflow Rate CFM							
External Static Pressure							
Type X Quantity							
	to 100%						
Lubricant Refer to: Refer to: Refer to: Refer to: Refer to: Refer to:	4T.U. 4 ( DO)						
	4TNU-A (-BS) DTNU-A (-BS)						
Height PORT-P36TNO-A (-BS)	)TNU-A (-B3)						
Dimensions Width In. PURY-P96YNU-A (-BS) PURY-P120YNU-A (-BS) PURY-P120YNU-A (-BS) PURY-P144	4YNU-A (-BS) DYNU-A (-BS)						
Net Weight Ibs.							
Sound Pressure Level (Measured in Anechoic Room)         dB(A)         61.5/63.0         62.5/64.5         63.0/65.0         66.	5/67.5						
Sound Pressure Level (Measured in Anechoic Room)         dB(A)         80.5/82.0         82.0/83.0         83.0/83.5         87.0	0/87.0						
High Pressure High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)						
Protection Devices Inverter Circuit (Compressor/Fan) Over-heat protection, Over-current protection							
Refrigerant Pipe Dimensions  Liquid (High Pressure) (Brazed) In.  7/8 Brazed (1-1/8 Brazed for the part that exceeds 65 m)  1-1/8  In.	Brazed						
Gas (Low Pressure)	B Brazed						
Indoor Unit Total capacity 50-150% of outdoor unit capacity							
Connectable Model / Quantity P05-P96/1-48							
Guaranteed Cooling (Outdoor) *2 23-126°F (-5-52°C) Operating							
Range *1 Heating (Outdoor) *3 -4-60°F (-20-15.5°C)	-4-60°F (-20-15.5°C)						
Extended Operating Range *4  Heating (Outdoor)  -18-60°F (-28-15.5°C)							
EER (Ducted/Non-Ducted) 11.9 / 13.5 11.6 / 13.0 11.2 / 11.7 10.7	7 / 11.3						
Efficiency	2 / 26.4						
Patings *5	3 / 3.50						
SCHE (Ducted/Non-Ducted) 23.0 / 28.0 22.7 / 26.9 22.9 / 26.8 22.3	22.3 / 25.7						

#### NOTES:

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

- Harsh weather environments may demand performance enhancing equipment.
   Ask your Mitsubishi Electric representative for more details about your region.
- 2. For details on extended cooling operation range down to -10° F DB, see Low Ambient Kit Submittal.
- 3. When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
- 4. Unit will continue to operate in extended operating range, but capacity is not guaranteed.
- 5. Efficiency ratings are based on AHRI 1230 test method





SF	PECIFICATIONS		MODEL NAMES					
	208V		PURY-P288TSNU-A (-BS)	PURY-P312TSNU-A (-BS)	PURY-P336TSNU-A (-BS)			
VOLTAGES		/230V	With 2 PURY-P144TNU-A (-BS)	With 1 PURY-P168TNU-A (-BS) and 1 PURY-P1 44TNU-A (-BS)	With 2 PURY-P168TNU-A (-BS)			
4600			PURY-P288YSNU-A (-BS)	PURY-P312YSNU-A (-BS)	PURY-P336YSNU-A (-BS)			
		460V	With 2 PURY-P144YNU-A (-BS)	With 1 PURY-P168YNU-A (-BS) and 1 PURY-P144YNU-A (-BS)	With 2 PURY-P168YNU-A (-BS)			
Parama Carrier			3-phase 3-wire 208-230 V ±10% 60 Hz					
Power Source			3-phase 3-wire 460 V ±10% 60 Hz					
Capacity (Nom-	Cooling	Btu/h	288,000	312,000	336,000			
inal)	Heating	Btu/h	323,000	350,000	378,000			
	МСА	А	Refer to: PURY-P144TNU-A (-BS)	Refer to: PURY-P168TNU-A (-BS)	Refer to: PURY-P168TNU-A (-BS)			
Electrical Supply	MOP	А		PURY-P144TNU-A (-BS)				
	SCCR	А	PURY-P144YNU-A (-BS)	PURY-P168YNU-A (-BS)	PURY-P168YNU-A (-BS)			
	Recommended Fuse Size	А		PURY-P144YNU-A (-BS)				
	Type X Quantity							
Fan	Airflow Rate	CFM						
	External Static Press	ure						
	Type X Quantity							
Compressor Operating Range			7.5% to 100%	7.5% to 100%	7.5% to 100%			
	Lubricant		Refer to:	Refer to:	Refer to:			
Refrigerant Type		PURY-P144TNU-A (-BS)	PURY-P168TNU-A (-BS)	PURY-P168TNU-A (-BS)				
External Finish		PURY-P144TNU-A (-BS)						
	Height							
Dimensions	Width	ln.	PURY-P144YNU-A (-BS)	PURY-P168YNU-A (-BS)	PURY-P168YNU-A (-BS)			
	Depth			PURY-P144YNU-A (-BS)				
Net Weight		lbs.						
Sound Pressure Lev (Measured in Anech	hoic Room)	dB(A)	68.0/68.5 67.0/69.0		65.5/69.5			
Sound Pressure Lev (Measured in Anech		dB(A)	88.5/88.5W 87.0/88.5		84.0/88.5			
	High Pressure		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)					
Protection Devices	Inverter Circuit (Compressor/Fan)		Over-heat protection, Over-current protection					
Refrigerant Pipe	Liquid (High Pressure) (Brazed)	ln.		1-1/8 Brazed				
Dimensions	Gas (Low Pressure) (Brazed)	ln.	1-3/8 Brazed	1-5/8 Brazed	1-5/8 Brazed			
Indoor Unit	Total capacity			50~150% of outdoor unit capacity				
Connectable	Model / Quantity			P05-P96/2-50				
Guaranteed	Cooling (Outdoor) *2	2		23-126°F (-5-52°C)				
Operating Range *1 Heating (Outdoor) *3		3		-4-60°F (-20-15.5°C)				
Extended Operating Range *4	Heating (Outdoor)			-18-60°F (-28-15.5°C)				
	EER (Ducted/Non-D	ucted)	10.2 / 10.9	10.1 / 10.2	9.9 / 9.5			
Efficiency	IEER (Ducted/Non-D	ucted)	22.1 / 26.4	21.4 / 24.6	20.5 / 23			
Ratings *5	COP (Ducted/Non-D	ucted)	3.20 / 3.44	3.20 / 3.36	3.2 / 3.29			
	SCHE (Ducted/Non-		21.7 / 24.5	20.6 / 23.8	20.4 / 23.4			
	COTTE (Ducted) NOTE	Jackeu)	21.7 / 24.3	20.0 / 25.0	20.4 / 20.4			

#### NOTES:

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor:  $80^{\circ}\text{FD.B./67}^{\circ}\text{FW.B.}$  (26.7°CD.B./19.4°CW.B.), Outdoor:  $95^{\circ}\text{FD.B.}$  (35°CD.B.)

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

- Harsh weather environments may demand performance enhancing equipment.
   Ask your Mitsubishi Electric representative for more details about your region.
- 2. For details on extended cooling operation range down to -10  $^{\circ}$  F DB, see Low Ambient Kit Submittal.
- 3. When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
- 4. Unit will continue to operate in extended operating range, but capacity is not guaranteed.
- 5. Efficiency ratings are based on AHRI 1230 test method



## PURY-EP\*\* (T/Y) NU-A

SF	PECIFICATIONS				MODEL NAMES							
VOLTAGES		208V /230V	PURY-EP72TNU-A (-BS)	PURY-EP96TNU-A (-BS)	PURY-EP120TNU-A (-BS)	PURY-EP144TNU-A (-BS)	PURY-EP168TNU-A (-BS)					
VOLIAGES		460V	PURY-EP72YNU-A (-BS)	PURY-EP96YNU-A (-BS)	PURY-EP120YNU-A (-BS)	PURY-EP144YNU-A (-BS)	PURY-EP168YNU-A (-BS)					
			3-phase 3-wire 208-230 V ±10% 60 Hz									
	Power Source			3-phase 3-wire 460 V ±10% 60 Hz								
Capacity	Cooling	Btu/h	72,000	·								
(Nominal)	Heating	Btu/h	80,000	108,000	135,000	160,000	188,000					
	MCA		23-21	31-29	41-38	49-45	57-53					
	MCA	Α	10	14	19	22	26					
Flootwinel	MOP	А	35-30	45-45	60-60	80-70	90-80					
Electrical Supply	MOF	_ ^	15	20	30	35	40					
	SCCR	Α	5	5	5	5	5					
	Recommended	Α	30	40	50	60	70					
	Fuse Size	1.	15	20	25	30	40					
	Type X Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2					
Fan	Airflow Rate	CFM	6,000	7,400	8,300	9,550	14,850					
	External Static Press	sure		Selectable; 0, 0.	12, 0.24, 0.32 in.WG; facto	ry set to 0 in.WG						
	Type X Quantity			Inverte	er scroll hermetic compre	ssor x 1						
Compressor	Operating Range		15% to 100%	15% to 100%	15% to 100%	15% to 100%	15% to 100%					
	Lubricant	MEL32										
Refrigerant	Туре		R410A									
External Finish			Pre-c	coated galvanized steel sh	neet (+powder coating for	r-BS type) <munsell 5y<="" td=""><td>′ 8/1&gt;</td></munsell>	′ 8/1>					
	Height	pht 71-5/8										
Dimensions	Width	ln.	36-1/4	48-7/8	48-7/8	48-7/8	68-29/32					
Dimensions		- "".	36-1/4	40-7/0		40-7/0	00-29/32					
	Depth		519	613	29-5/32 622	680	777					
Net Weight		lbs.	552	649	657	715	807					
Sound Pressure (Measured in A	e Level Anechoic Room)	dB(A)	56.5/58.0	58.5/60.0	60.0/62.0	65.0/65.5	62.5/66.5					
Sound Pressure (Measured in A	e Level Anechoic Room)	dB(A)	75.5/77.0	77.5/79.0 80.0/80.5		85.5/85.5	81.0/85.5					
5	High Pressure		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)									
Protection Devices	Inverter Circuit (Compressor/Fan)		Over-heat protection, Over-current protection									
Refrigerant Pipe	Liquid (High Pressure) (Brazed)	- In.	5/8 Brazed	3/4 Brazed	3/4 Brazed	7/8 Brazed	7/8 Brazed					
Dimensions	Gas (Low Pressure) (Brazed)		3/4 Brazed	7/8 Brazed	1-1/8 Brazed	1-1/8 Brazed	1-1/8 Brazed					
Indoor Unit	Total capacity			50~	150% of outdoor unit capa	acity						
Connectable	Model / Quantity		P05~P96/1~18	P05~P96/1~24	P05~P96/1~30	P05~P96/1~36	P05~P96/1~42					
Guaranteed	Cooling (Outdoor) *	2			23~126°F (-5~52°C)							
Operating Range *1	Heating (Outdoor) *	<b>'</b> 3			-13F~60°F (-25~15.5°C)							
Extended Operating Range *4	Heating (Outdoor)				-25~60°F (-31.5~15.5°C)							
·	EER (Ducted/ Non-Ducted)		13.4 / 15.4	13.7 / 15.1	12.6 / 13.8	11.7 / 12.9	11.2 / 11.9					
Efficiency	IEER (Ducted/ Non-Ducted)		24.5 / 31.2	26.5 / 33.1	25.0 / 30.1	24.1 / 29.7	23.4 / 28.0					
Ratings *5	COP (Ducted/ Non-Ducted)		3.81 / 4.37	3.94 / 4.26	3.71 / 4.04	3.49 / 3.86	3.30 / 3.80					
	SCHE (Ducted/ Non-Ducted)		25.9 / 25.5	23.5 / 28.3	25.3 / 29.1	24.8 / 27.7	24.7 / 28.3					

#### NOTES:

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)

- 1. Harsh weather environments may demand performance enhancing equipment. Ask your Mitsubishi Electric representative for more details about your region.
- 2. For details on extended cooling operation range down to -10° F DB, see Low Ambient Kit Submittal.
- 3. When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
- 4. Unit will continue to operate in extended operating range, but capacity is not guaranteed.
- 5. Efficiency ratings are based on AHRI 1230 test method





SPE	CIFICATIONS		MODEL NAMES						
		208V /230V	PURY-EP192TNU-A (-BS)	PURY-EP216TNU-A (-BS)	PURY-EP240TNU-A (-BS)				
VOLTAGES		460V	PURY-EP192YNU-A (-BS)	PURY-EP216YNU-A (-BS)	PURY-EP240YNU-A (-BS)				
Power Source			3-phase 3-wire 208-230 V ±10% 60 Hz						
rower source			3-phase 3-wire 460 V ±10% 60 Hz						
	Cooling	Btu/h	192,000	216,000	240,000				
Capacity (Nominal)	Heating	Btu/h	215,000	243,000	250,000				
	MCA	_	66/60	73/67	82/75				
	MCA	A	30	33	37				
	MOP	А	110/100	125/110	125/125				
Electrical Supply	MOF		52	50	60				
	SCCR	А		5					
	Recommended	A	80/80	100/90	100/90				
	Fuse Size	1	40 50 50						
	Type X Quantity			Propeller fan x 2Propeller fan x 2					
Fan	n Airflow Rate CFM		13,050	14,500					
	External Static Pres	sure	Selectable; 0, 0.12, 0.24, 0.32 in.WG; factory set to 0 in.WG						
	Type X Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor				
Compressor Operating Range				15% to 100%					
	Lubricant			MEL32					
Refrigerant	Туре		R410A						
External Finish			Pre-coated galvanized steel sheet (+powder coating for -BS type)						
	Height		71-5/8						
Dimensions	Width	In.	68-15/16						
	Depth	7	29-3/16						
			887 (402)						
Net Weight		lbs.	918 (416)						
Sound Pressure Lev (Measured in Anech		dB(A)	64.5/66.0	66.5/67.5	67.5/68.0				
Sound Pressure Lev (Measured in Anech		dB(A)	83.5/85.0	86.5/87.0					
	High Pressure		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)						
Protection Devices	Inverter Circuit (Compressor/Fan)		Over-heat protection, Over-current protection						
Refrigerant Pipe	Liquid (High Pressure) (Brazed)	In.	7/8 (22.2) Brazed	7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)	7/8 (22.2) Brazed (1-1/8 (28.58) Braze for the part that exceeds 65 m)				
Dimensions	Gas (Low Pressure) (Brazed)	111.	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-3/8 (34.93) Brazed				
Indoor Unit	Total capacity			50-150% of outdoor unit capacity					
Connectable	Model / Quantity		P05-P96/2-50						
Guaranteed	Cooling (Outdoor) *	2	23-126°F (-5-52°C)						
Operating Range *1 Heating (Outdoor) *3			-4-60°F (-20-15.5°C)						
Extended Operating Range *4	Heating (Outdoor)			-25-60°F (-31.5-15.5°C)					
Efficiency Ratings *5	EER (Ducted/Non-D IEER (Ducted/Non-I COP (Ducted/Non-I SCHE (Ducted/Non-I	Ducted) Ducted)	11.3 / 12.2 20.0 / 26.5 3.34 / 3.76 24.7 / 28.3	10.9 / 11.4 19.7 / 24.9 3.23 / 3.62 23.8 / 27.8	10.5 / 10.5 19.6 / 22.8 3.2 / 3.42 23.6 / 26.3				

#### NOTES:

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

- Harsh weather environments may demand performance enhancing equipment.
   Ask your Mitsubishi Electric representative for more details about your region.
- 2. For details on extended cooling operation range down to -10  $^{\circ}$  F DB, see Low Ambient Kit Submittal.
- 3. When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
- 4. Unit will continue to operate in extended operating range, but capacity is not guaranteed.
- 5. Efficiency ratings are based on AHRI 1230 test method



# SPECIFICATIONS: ▼ R2-SERIES (HIGH EFFICIENCY)

## PURY-EP\*\* (T/Y) NU-A

S	PECIFICATIONS		MODEL NAMES							
			PURY-EP192TSNU-A (-BS)	PURY-EP216TSNU-A (-BS)	PURY-EP240TSNU-A (-BS)	PURY-EP264TSNU-A (-B				
VOLTAGES		208V /230V	With 2 PURY-EP96TNU-A (-BS)	With 1 PURY-EP120TNU-A (-BS) and 1 PURY-EP96TNU-A (-BS)	With 2 PURY-EP120TNU-A (-BS)	With 1 PURY-EP144TNU-A (-BS and 1 PURY-EP120TNU-4 (-BS)				
			PURY-EP192YSNU-A (-BS)	PURY-EP216YSNU-A (-BS)	PURY-EP240YSNU-A (-BS)	PURY-EP264YSNU-A (-B				
460			With 2 PURY-EP96YNU-A (-BS)	With 1 PURY-EP120YNU-A (-BS) and 1 PURY-EP96YNU-A (-BS)	With 2 PURY-EP120YNU-A (-BS)	With 1 PURY-EP144YNU-A (-BS) and 1 PURY-EP120YNU-A (-BS)				
Davisa Carras				3-phase 3-wire 208-230 V ±10% 60 Hz						
Power Source				3-phase 3-wire 4	60 V ±10% 60 Hz					
Capacity	Cooling	Btu/h	192,000	216,000	240,000	264,000				
(Nominal)	Heating	Btu/h	215,000	243,000	270,000	295,000				
	MCA	А	Refer to: PURY-EP96TNU-A (-BS)	Refer to: PURY-EP120TNU-A (-BS)	Refer to: PURY-EP120TNU-A (-BS)	Refer to: PURY-EP144TNU-A (-BS				
Electrical	MOP	А		PURY-EP96TNU-A (-BS)		PURY-EP120TNU-A (-BS				
Supply	SCCR	А		PURY-EP120YNU-A (-BS)		PURY-EP144YNU-A (-BS				
	Recommended Fuse Size	A	PURY-EP96YNU-A (-BS)	PURY-EP96YNU-A (-BS)	PURY-EP120YNU-A (-BS)	PURY-EP120YNU-A (-BS)				
	Type X Quantity									
Fan	Airflow Rate	CFM								
	External Static Pressu	re								
Type X Quantity  Compressor Operating Range										
		_	15% to 100%	15% to 100%	15% to 100%	15% to 100%				
5.61	Lubricant		Refer to:	Refer to:	Refer to:	Refer to:				
Refrigerant External Finish	Type		PURY-EP96TNU-A (-BS)	PURY-EP120TNU-A (-BS)	PURY-EP120TNU-A (-BS)	PURY-EP144TNU-A (-BS				
External Fillish	Height			PURY-EP96TNU-A (-BS)		PURY-EP120TNU-A (-BS				
Dimensions	Width	ln.		PURY-EP120YNU-A (-BS)		PURY-EP144YNU-A (-BS				
511110110110110	Depth	1	PURY-EP96YNU-A (-BS)	PURY-EP96YNU-A (-BS)	PURY-EP120YNU-A (-BS)	PURY-EP120YNU-A (-BS)				
Net Weight		lbs.								
Sound Pressure (Measured in A		dB(A)	61.5/63.0	62.5/64.5	63.0/65.0	66.5/67.5				
Sound Pressure (Measured in A		dB(A)	80.5/82.0	82.0/83.0 83.0/83.5		87.0/87.0				
Protection	High Pressure		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)							
Devices	Inverter Circuit (Comp Fan)	ressor/		Over-heat protection, (	Over-current protection	ver-current protection				
Refrigerant Pipe	Liquid (High Pressure) (Brazed)	ln.	7/8 Brazed	7/8 Brazed (1-1/8 Brazed for the part that exceeds 65 m)	7/8 Brazed (1-1/8 Brazed for the part that exceeds 65 m)	1-1/8 Brazed				
Dimensions	Gas (Low Pressure) (Brazed)		1-1/8 Brazed	1-1/8 Brazed	1-3/8 Brazed	1-3/8 Brazed				
Indoor Unit	Total capacity			50~150% of outd	oor unit capacity					
Connectable	Model / Quantity		P05~P96/1~48	P05~P96/2~50	P05-P96/2-50	P05~P96/2~50				
Guaranteed Operating	Cooling (Outdoor) *2			23~126°F						
Range *1	Heating (Outdoor) *3			-13F~60°F (	-25~15.5°C)					
Extended Operating Range *4	Heating (Outdoor)			-25-60°F (-	31.5~15.5°C)					
90 4	EER (Ducted/Non-Du	cted)	12.7 / 14.1	12.2 / 13.5	11.7 / 12.2	11.3 / 11.9				
Efficiency	IEER (Ducted/Non-Du		25.3 / 31.8	24.6 / 30.4	23.9 / 27.4	23.5 / 27.4				
Ratings *5	COP (Ducted/Non-Du	cted)	3.66 / 3.99	3.56 / 3.89	3.46 / 3.58	3.36 / 3.53				
	SCHE (Ducted/Non-D	ucted)	23.0 / 28.0	22.7 / 26.9	22.9 / 26.8	22.3 / 25.7				

#### NOTES:

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor:  $80^{\circ}\text{FD.B./67}^{\circ}\text{FW.B.}$  (26.7°CD.B./19.4°CW.B.), Outdoor:  $95^{\circ}\text{FD.B.}$  (35°CD.B.)

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

- Harsh weather environments may demand performance enhancing equipment.
   Ask your Mitsubishi Electric representative for more details about your region.
- 2. For details on extended cooling operation range down to -10° F DB, see Low Ambient Kit Submittal.
- When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
- 4. Unit will continue to operate in extended operating range, but capacity is not guaranteed.
- 5. Efficiency ratings are based on AHRI 1230 test method





# SPECIFICATIONS: TR2-SERIES (HIGH EFFICIENCY)

	SPECIFICATIONS		MODEL NAMES				
		208V	PURY-EP288TSNU-A (-BS)	PURY-EP312TSNU-A (-BS)	PURY-EP336TSNU-A (-BS)		
VOLTAGES		/230V	With 2 PURY-EP144TNU-A (-BS)	With 1 PURY-EP168TNU-A (-BS) and 1 PURY-EP144TNU-A (-BS)	With 2 PURY-EP168TNU-A (-BS)		
VOLTAGES			PURY-EP288YSNU-A (-BS)	PURY-EP312YSNU-A (-BS)	PURY-EP336YSNU-A (-BS)		
460		460V	With 2 PURY-EP144YNU-A (-BS)	With 1 PURY-EP168YNU-A (-BS) and 1 PURY-EP144YNU-A (-BS)	With 2 PURY-EP168YNU-A (-BS)		
D 0			3-phase 3-wire 208-230 V ±10% 60 Hz				
Power Source				3-phase 3-wire 460 V ±10% 60 Hz			
Capacity Cooling		Btu/h	288,000	312,000	336,000		
(Nominal)	Heating	Btu/h	323,000	350,000	378,000		
	MCA	А	Refer to:	Refer to:	Refer to:		
	MOP		PURY-EP144TNU-A (-BS)	PURY-EP168TNU-A (-BS)	PURY-EP168TNU-A (-BS)		
Electrical		A		PURY-EP144TNU-A (-BS)			
Supply	SCCR	A	PURY-EP144YNU-A (-BS)	PURY-EP168YNU-A (-BS) PURY-EP144YNU-A (-BS)	PURY-EP168YNU-A (-BS)		
	Recommended Fuse Size	А		1 01(1 21 144 1110 71 ( 25)			
	Type X Quantity						
Fan	Airflow Rate	CFM					
	External Static Pressure	External Static Pressure					
	Type X Quantity						
Compressor Operating Range  Lubricant			15% to 100%	15% to 100%	15% to 100%		
		Refer to:	Refer to:	Refer to:			
Refrigerant Type							
External Finish			PURY-EP144TNU-A (-BS)	PURY-EP168TNU-A (-BS) PURY-EP144TNU-A (-BS)	PURY-EP168TNU-A (-BS)		
	Height			PORT-EP144TNO-A (-B3)			
Dimensions	Width	ln.	DUDY ED14 (VAILLA / DC)	PURY-EP168YNU-A (-BS)	DUDY EDICOVALLA ( DC)		
	Depth		PURY-EP144YNU-A (-BS)	PURY-EP144YNU-A (-BS)	PURY-EP168YNU-A (-BS)		
Net Weight		lbs.					
Sound Pressure Leve	l (Measured in Anechoic Room)	dB(A)	68.0/68.5	67.0/69.0	65.5/69.5		
Sound Pressure Leve	l (Measured in Anechoic Room)	dB(A)	88.5/88.5	87.0/88.5	84.0/88.5		
Protection	High Pressure		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				
Devices	Inverter Circuit (Compressor/	Fan)	Over-heat protection, Over-current protection				
Defuisement Dine	Liquid (High Pressure) (Brazed)			1-1/8 Brazed			
Refrigerant Pipe Dimensions	Gas (Low Pressure) (Brazed)	In.	1-3/8 Brazed	1-5/8 Brazed	1-5/8 Brazed		
Indoor Unit	Total capacity			50~150% of outdoor unit capacity			
Connectable	Model / Quantity			P05~P96/2~50	<del>.</del>		
Guaranteed Cooling (Outdoor) *2				23~126°F (-5~52°C)			
Operating Range *1 Heating (Outdoor) *3			-13F-60°F (-25-15.5°C)				
Extended Operating Range *4	Heating (Outdoor)			-25-60°F (-31.5-15.5°C)			
-	EER (Ducted/Non-Ducted)		10.9 / 11.5	10.7 / 10.9	10.5 / 10.3		
Efficiency	IEER (Ducted/Non-Ducted)		23.1 / 27.4	22.8 / 26.1	22.5 / 24.9		
Ratings *5	COP (Ducted/Non-Ducted)		3.26 / 3.46	3.24 / 3.37	3.22 / 3.29		
	SCHE (Ducted/Non-Ducted)		21.7 / 24.5	20.6 / 23.8	20.4 / 23.4		

#### NOTES

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

- 1. Harsh weather environments may demand performance enhancing equipment. Ask your Mitsubishi Electric representative for more details about your region.
- 2. For details on extended cooling operation range down to -10  $^{\circ}$  F DB, see Low Ambient Kit Submittal.
- When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
- 4. Unit will continue to operate in extended operating range, but capacity is not guaranteed.
- 5. Efficiency ratings are based on AHRI 1230 test method





# SPECIFICATIONS: TR2-SERIES (HIGH EFFICIENCY)

SPECIFICATION			MODEL NAMES				
			PURY-EP384TSNU-A (-BS)	PURY-EP432TSNU-A (-BS)			
		208V /230V	With 1 PURY-EP384TSNU-A (-BS) and 1 PURY-EP192TNU-A (-BS)	With 1 PURY-EP432TSNU-A (-BS) and 1 PURY-EP216TNU-A (-BS)			
VOLTAGES	VOLIAGES		PURY-EP384YSNU-A (-BS)	PURY-EP432YSNU-A (-BS)			
460V		With 1 PURY-EP384YSNU-A (-BS) and 1 PURY-EP192YNU-A (-BS)	With 1 PURY-EP432YSNU-A (-BS) and 1 PURY-EP216YNU-A (-BS)				
Power Source			3-phase 3-wire 208-230 V ±10% 60 Hz				
Power Source			3-phase 3-wire 460 V ±10% 60 Hz				
Capacity (Nominal)	Cooling		384,000	432,000			
Capacity (Nominal)	Heating	Btu/h	430,000	480,000			
	MCA	А	Refer to: PURY-EP384TSNU-A (-BS)	Refer to: PURY-EP432TSNU-A (-BS)			
Electrical Supply	MOP	А	PURY-EP192TNU-A (-BS)	PURY-EP216TNU-A (-BS)			
	SCCR	А	PURY-EP384YSNU-A (-BS)	PURY-EP432YSNU-A (-BS)			
	Recommended Fuse Size	А	PURY-EP192YNU-A (-BS)	PURY-EP216YNU-A (-BS)			
	Type X Quantity						
Fan	Airflow Rate	CFM					
	External Static Pressure						
	Type X Quantity						
Compressor	Operating Range		7.5% to 100%	7.5% to 100%			
	Lubricant		Refer to:	Refer to:			
Refrigerant Type		PURY-EP384TSNU-A (-BS)	PURY-EP432TSNU-A (-BS)				
External Finish			PURY-EP192TNU-A (-BS)	PURY-EP216TNU-A (-BS)			
	Height	In.					
Dimensions	Width	In.	PURY-EP384YSNU-A (-BS)	PURY-EP432YSNU-A (-BS)			
	Depth	In.	PURY-EP192YNU-A (-BS)	PURY-EP216YNU-A (-BS)			
Net Weight		lbs.					
Sound Pressure Level (Me Room)	easured in Anechoic	dB(A)	67.5/69.0	69.5/70.0			
Sound Pressure Level (Me Room)	easured in Anechoic	dB(A)	86.5/89.0	88.5/89.0			
	High Pressure		High pressure sensor, High pre	essure switch at 4.15 MPa (601 psi)			
Protection Devices	Inverter Circuit (Com Fan)	pressor/	Over-heat protection	, Over-current protection			
Refrigerant Pipe Dimen-	Liquid (High Pressure	e) (Brazed)	1-1/8 (28	3.58) Brazed			
sions	Gas (Low Pressure) (	Brazed)	1-5/8 (41	1.28) Brazed			
In also a li Init Connoctable	Total capacity		50-150% of out	tdoor unit capacity			
Indoor Unit Connectable	Model / Quantity		P05-F	P96/2-50			
Guaranteed Operating	Cooling (Outdoor) *2	2	23-126°	F (-5-52°C)			
Range *1	Heating (Outdoor) *3	3	-4-60°F	(-20~15.5°C)			
Extended Operating Range *4	Heating (Outdoor)		-25-60°F	(-31.5-15.5°C)			
	EER (Ducted/Non-D	ucted)	10.9 / 12.2	11.9 / 13.5			
Efficiency Batings *F	IEER (Ducted/Non-D	ucted)	19.7 / 24.5	18.9 / 25.6			
Efficiency Ratings *5	COP (Ducted/Non-D	ucted)	3.45 / 3.82	3.6 / 3.88			
	SCHE (Ducted/Non-	Ducted)	24.8 / 27.7	23 / 28			

#### NOTES:

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

- Harsh weather environments may demand performance enhancing equipment.
   Ask your Mitsubishi Electric representative for more details about your region.
- 2. For details on extended cooling operation range down to -10  $^{\circ}$  F DB, see Low Ambient Kit Submittal.
- When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
- 4. Unit will continue to operate in extended operating range, but capacity is not guaranteed.
- 5. Efficiency ratings are based on AHRI 1230 test method







VOLTAGES         PURY-HP96TNU-A         PURY-HP96TNU-A         PURY-HP96TNU-A         PURY-HP96TNU-A         PURY-HP96YNU-A         PURY-HP96YNU-A <th colsp<="" th=""><th colspan="5">MODEL NAMES</th></th>	<th colspan="5">MODEL NAMES</th>	MODEL NAMES				
Power Source   3-phase 3-wire 208-230 V ±10% 60 Hz	J-A					
Power Source 3-phase 3-wire 460 V ±10% 60 Hz  Capacity (Nominal) Cooling Btu/h 72,000 96,000 120,000  Heating Btu/h 80,000 108,000 135,000  MCA A 17 20 21  MOP A 60-50 70-60 70-60	J-A					
Capacity (Nominal)  Reating  Btu/h  Bt	3-phase 3-wire 208-230 V ±10% 60 Hz					
Capacity (Nominal)         Heating         Btu/h         80,000         108,000         135,000           MCA         A         38-35         44-40         47-44           17         20         21           MOP         A         60-50         70-60         70-60						
Heating Btu/h 80,000 108,000 135,000  MCA  A  38-35 44-40 47-44  17 20 21  MOP  A  60-50 70-60 70-60						
MCA A 17 20 21  MOP A 60-50 70-60 70-60						
17 20 21 MOP A 60-50 70-60 70-60						
MOP A						
SCCR A 5 5 5						
Recommended Fuse A						
Size TBD						
Type X Quantity Propeller fan x 2 Propeller fan x 2 Propeller fan x 2	2					
Fan         Airflow Rate         CFM         7,400         8,300         9,550						
External Static Pressure Selectable; 0, 0.12, 0.24, 0.32 in.WG; factory set to 0 in.WG	Selectable; 0, 0.12, 0.24, 0.32 in.WG; factory set to 0 in.WG					
Type X Quantity Inverter scroll hermetic compressor x 1						
Compressor         Operating Range         15% to 100%         15% to 100%         15% to 100%						
Lubricant MEL46						
Refrigerant Type R410A	R410A					
External Finish Pre-coated galvanized steel sheet <munsell 1="" 5y="" 8=""></munsell>	Pre-coated galvanized steel sheet <munsell 1="" 5y="" 8=""></munsell>					
Height In. 71-5/8						
Dimensions Width In. 48-7/8	48-7/8					
Depth In. 29-3/16						
609 662 662						
Net Weight   Ibs.   644   697   697						
Sound Pressure Level (Measured in Anechoic Room)  dB(A)  56.5/58.0  58.5/60.0  64.0/65.0						
Sound Pressure Level (Measured in Anechoic Room)         dB(A)         75.5/77.0         77.5/79.0         84.0/85.0						
High Pressure Over-heat protection, Over-current protection						
Protection Devices Inverter Circuit (Compressor/ Fan) Over-current protection						
Refrigerant Pipe Liquid (High Pressure) (Brazed) 5/8 Brazed 3/4 Brazed 3/4 Brazed						
Dimensions Gas (Low Pressure) (Brazed) 3/4 Brazed 7/8 Brazed 1-1/8 Brazed						
Indoor Unit Connect- Total capacity 50-150% of outdoor unit capacity						
able Model / Quantity P05-P96/1-18 P05-P96/1-24 P05-P96/1-30						
Guaranteed Operating Cooling (Outdoor) *2 23-126°F (-5-52°C)						
Range *1 Heating (Outdoor) *3 -22-60°F (-30-15.5°C)						
Extended Operating Range *4 Heating (Outdoor) -31-60°F (-35-15.5°C)						
EER (Ducted/Non-Ducted) 11.9 / 13.1 12.8 / 14.5 12.1 / 13.2						
IEER (Ducted/Non-Ducted) 20.9 / 25.6 19.8 / 26.6 19.7 / 24.4						
Efficiency Ratings *5 COP (Ducted/Non-Ducted) 3.76 / 4.09 3.88 / 4.14 3.61 / 4.01						
SCHE (Ducted/Non-Ducted) 25.9 / 25.5 23.5 / 28.3 25.3 / 29.1						

#### NOTES

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

- Harsh weather environments may demand performance enhancing equipment.
   Ask your Mitsubishi Electric representative for more details about your region.
- 2. For details on extended cooling operation range down to -10  $^{\circ}$  F DB, see Low Ambient Kit Submittal.
- When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
- Unit will continue to operate in extended operating range, but capacity is not guaranteed.
- 5. Efficiency ratings are based on AHRI 1230 test method







SPECIFICATION				MODEL NAMES				
		208V	PURY-HP144TSNU-A	PURY-HP192TSNU-A	PURY-HP240TSNU-A			
		/230V	With 2 PURY-HP72TNU-A	With 2 PURY-HP96TNU-A	With 2 PURY-HP120TNU-A			
VOLTAGES			PURY-HP144YSNU-A	PURY-HP192YSNU-A	PURY-HP240YSNU-A			
460		460V	With 2 PURY-HP72YNU-A	With 2 PURY-HP96YNU-A	With 2 PURY-HP120YNU-A			
			3	3-phase 3-wire 208-230 V ±10% 60 Hz				
Power Source			3-phase 3-wire 460 V ±10% 60 Hz					
Cooling		Btu/h	144,000	192,000	240,000			
Capacity (Nominal)	Heating	Btu/h	160,000	215,000	270,000			
	MCA	А	Refer to: PURY-HP72TNU-A	Refer to: PURY-HP96TNU-A	Refer to: PURY-HP120TNU-A			
Electrical Supply	МОР	А						
	SCCR	А	PURY-HP72YNU-A	PURY-HP96YNU-A	PURY-HP120YNU-A			
	Recommended Fuse Size	А						
	Type X Quantity							
Fan	Airflow Rate	CFM						
	External Static Press	ure						
	Type X Quantity							
Compressor	Operating Range		7.5% to 100%	7.5% to 100%	7.5% to 100%			
	Lubricant		Refer to:	Refer to:	Refer to:			
Refrigerant	Туре		PURY-HP72TNU-A	PURY-HP96TNU-A	PURY-HP120TNU-A			
External Finish								
	Height	ln.						
Dimensions	Width	ln.	PURY-HP72YNU-A	PURY-HP96YNU-A	PURY-HP120YNU-A			
	Depth	ln.						
Net Weight		lbs.						
Sound Pressure Level (M Room)	easured in Anechoic	dB(A)	59.5/61.0	61.5/63.0	67.0/68.0			
Sound Pressure Level (M Room)	easured in Anechoic	dB(A)	78.5/80.0	80.5/82.0	87.0/88.0			
	High Pressure		Over	-heat protection, Over-current protect	ion			
Protection Devices	Inverter Circuit (Com Fan)	pressor/	Over-current protection					
Refrigerant Pipe Dimensions	Liquid (High Pressur	e) (Brazed)	7/8 Brazed	7/8 Brazed	7/8 Brazed (1-1/8 Brazed for the part that exceeds 65 m)			
	Gas (Low Pressure) (	(Brazed)	1-1/8 Brazed	1-1/8 Brazed	1-3/8 Brazed			
Indoor Unit Connectable				50-150% of outdoor unit capacity				
Model / Quantity			P05~P96/1~36	P05~P96/1~48	P05~P96/2~50			
Guaranteed Operating	Cooling (Outdoor) *2	2		23~126°F (-5~52°C)				
Range *1 Heating (Outdoor) *3		3		-22~60°F (-30~15.5°C)				
Extended Operating Range *4	Heating (Outdoor)			-31-60°F (-35~15.5°C)				
	EER (Ducted/Non-D	ucted)	10.9 / 12.2	11.9 / 13.5	11.2 / 11.7			
Efficiency Ratings *5	IEER (Ducted/Non-D	oucted)	19.7 / 24.5	18.9 / 25.6	18.8 / 22.2			
,	COP (Ducted/Non-D	ucted)	3.45 / 3.82	3.6 / 3.88	3.36 / 3.56			
	SCHE (Ducted/Non-	Ducted)	24.8 / 27.7	23 / 28	22.9 / 26.8			

#### NOTES

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor:  $80^{\circ}\text{FD.B.}/67^{\circ}\text{FW.B.}$  ( $26.7^{\circ}\text{CD.B.}/19.4^{\circ}\text{CW.B.}$ ), Outdoor:  $95^{\circ}\text{FD.B.}$  ( $35^{\circ}\text{CD.B.}$ )

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

- for PURY-EPT(Y)SNU combined systems.

  1. Harsh weather environments may demand performance enhancing equipment.

  Ask your Mitsubishi Electric representative for more details about your region.
- 2. For details on extended cooling operation range down to -10° F DB, see Low Ambient Kit Submittal.
- When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
- 4. Unit will continue to operate in extended operating range, but capacity is not guaranteed.
- 5. Efficiency ratings are based on AHRI 1230 test method

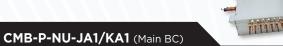


## SPECIFICATIONS: BC CONTROLLER

## CMB-P-NU-J1 (Single BC)

		MODEL NAMES						
	SPECIFICATI	ONS	CMB-P104NU-J1	CMB-P106NU-J1	CMB-P108NU-J1	CMB-P1012NU-J1	CMB-P1016NU-J1	
Number of Branches			4	6	8	12	16	
Power Source				208 / 230V, 1 phase, 60Hz				
Power Input	Cooling	kW	0.061 / 0.078	0.091 / 0.118	0.122 / 0.157	0.182 / 0.235	0.243 / 0.314	
(208/23ÖV)	Heating	kW	0.030 / 0.039	0.046 / 0.059	0.061 / 0.078	0.091 / 0.118	0.122 / 0.157	
Current	Cooling	А	0.30 / 0.35	0.44 / 0.52	0.59 / 0.69	0.88 / 1.03	1.17 / 1.37	
(208/230V)	Heating	А	0.15 / 0.18	0.22 / 0.26	0.30 / 0.35	0.44 / 0.52	0.59 / 0.69	
External Finish			Galvanized stee	el plate (Lower part d	rain pan: Pre-coated	galvanized sheets + p	powder coating)	
	Height			9-7/8				
Dimensions	Width	In.	23-1/2	23-1/2	23-1/2	35-7/8	44-11/16	
	Depth		15-11/16	15-11/16	15-11/16	21-1/2	21-1/2	
Net Weight		Lbs.	58	64	73	109	131	
Refrigerant	T- 1 11-24	Liquid Pipe (In.)	3/8					
Pipe Dimensions	To Indoor Unit	Gas Pipe (In.)	5/8					
Connectable O Heat Source Ur			72,000 to 120,000					
Indoor unit Cap Connectable to One Branch		Btu/h	54,000					
Drain Pipe			3/4 NPT					
Sound Power L	_evel (Measured in	Rated Operation dB(A)			59			
Anechoic Roor		Defrost dB(A)			71			
Sound Pressure	e Level (Measured	Rated Operation dB(A)			40			
in Anechoic Ro		Defrost dB(A)			53			

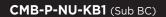
Total Downstream Capacity (Nominal cooling) (Btu/h)	Liquid (High Pressure)	Gas (Low Pressure)	Liquid Pipe
Less than 72,000	5/8 (Brazed)	3/4 (Brazed)	3/8 (Brazed)
Between 73,000 and 108,000	3/4 (Brazed)	7/8 (Brazed)	3/8 (Brazed)
Between 109,000 and 126,000	3/4 (Brazed)	1-1/8 (Brazed)	1/2 (Brazed)
Between 127,000 and 144,000	7/8 (Brazed)	1-1/8 (Brazed)	1/2 (Brazed)
Between 145,000 and 216,000	7/8 (Brazed)	1-1/8 (Brazed)	5/8 (Brazed)
Between 217,000 and 234,000	1-1/8 (Brazed)	1-1/8 (Brazed)	5/8 (Brazed)
Between 235,000 and 288,000	1-1/8 (Brazed)	1-3/8 (Brazed)	3/4 (Brazed)
Between 289,000 and 360,000	1-1/8 (Brazed)	1-5/8 (Brazed)	3/4 (Brazed)
Greater than 361,000	1-3/8 (Brazed)	1-5/8 (Brazed)	3/4 (Brazed)



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11111111	SPECIFICATIONS: BC CONTROLL
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		MODEL NAMES					
SPECIF	ICATIONS		CMB-P108NU-JA1	CMB-P1012NU-JA1	CMB-P1016NU-JA1	CMB-P1016NU-KA1	
Number of Branches			8	12	16	16	
Power Source				208 / 230V, 1	phase, 60Hz		
Power Input	Cooling	kW	0.137 / 0.176	0.198 / 0.255	0.258 / 0.333	0.258 / 0.333	
(208/230V)	Heating	kW	0.076 / 0.098	0.106 / 0.137	0.137 / 0.176	0.137 / 0.176	
Current	Cooling	А	0.66 / 0.77	0.95 / 0.11	1.25 / 1.45	1.25 / 1.45	
(208/230V)	Heating	А	0.37 / 0.43	0.52 / 0.60	0.66 / 0.77	0.66 / 0.77	
External Finish			Galvanized steel plate	(Lower part drain pan: in	Pre-coated galvanized g)	sheets + powder coat-	
	Height			9-	7/8		
Dimensions	Width	In.	35-7/8	44-11/16	44-11/16	44-11/16	
	Depth		21-1/2				
Net Weight		Lbs.	106	133	150	153	
Refrigerant Pipe Dimensions	To Indoor	Liquid Pipe (In.)	3/8				
Reingerant ripe Dimensions	Unit	Gas Pipe (In.)	5/8				
Connectable Outdoor / Heat Source	ce Unit Capacity	Btu/h	72,000 to 336,000 72,000 to 432,				
Max. Connected Capacity to Sub E	C Controllers	Direct/le	126,000				
Indoor unit Capacity Connectable	to One Branch	Btu/h	54,000				
Drain Pipe			3/4 NPT				
Sound Power Level (Measured in A	nechoic Room)	Rated Operation dB(A)		68		66	
·		Defrost dB(A)		74		73	
Sound Pressure Level (Measured in	Rated Operation dB(A)		50		48		
Room)		Defrost dB(A)		56		55	



	NIC .		MODEL NAMES			
SPECIFICATIO	)NS		CMB-P104NU-KB1	CMB-P108NU-KB1		
Number of Branches			4	8		
Power Source			208 / 230V, 1	phase, 60Hz		
Power Input	Cooling	kW	0.061 / 0.078	0.122 / 0.157		
(208/230V)	Heating	kW	0.030 / 0.039	0.061 / 0.078		
Current	Cooling	А	0.30 / 0.35	0.59 / 0.69		
(208/230V)	Heating	А	0.15 / 0.18	0.30 / 0.35		
External Finish			Galvanized steel plate (Lower part drain pa	an: Pre-coated galvanized sheets + powder ing)		
	Height	In.	9-:	7/8		
Dimensions	Width	In.	23-	1/2		
	Depth	In.	15-11/16			
Net Weight		Lbs.	51	69		
Refrigerant Pipe Dimensions	To Indoor	Liquid Pipe (In.)	3/8			
	Unit	Gas Pipe (In.)	5/8			
Maximum Connectable Sub BC Controllers			11			
Max. Connected Capacity for All Branches		Div./b	126,000			
Indoor unit Capacity Connectable to One B	ranch	Btu/h	54,	000		
Drain Pipe			3/4	NPT		
Sound Power Level (Measured in Anechoic	Room)	Rated Operation dB(A)	5	9		
		Defrost dB(A)	7	71		
Sound Pressure Level (Measured in Anecho	ic Room)	Rated Operation dB(A)	4	0		
		Defrost dB(A)	5	3		



## PUHY-P\*\* (T/Y) NU-A

SPECIFICATIONS			MODEL NAME								
		208V /230V	PUHY-P72TNU-A (-BS)	PUHY-P96TNU-A (-BS)	PUHY-P120TNU-A (-BS)	PUHY-P144TNU-A (-BS)	PUHY-P168TNU-A (-BS)				
VOLTAGES		460V	PUHY-P72YNU-A (-BS)	PUHY-P96YNU-A (-BS)	PUHY-P120YNU-A (-BS)	PUHY-P144YNU-A (-BS)	PUHY-P168YNU-A (-BS)				
Power Source				3-phase 3-wire 208-230 V ±10% 60 Hz							
1 ower source				3-ph	nase 3-wire 460 V ±10% 6	0 Hz					
Capacity (Nom-	Cooling	Btu/h	72,000	96,000	120,000	144,000	168,000				
inal)	Heating	Btu/h	80,000	108,000	135,000	160,000	188,000				
	MCA	Α	24-22 11	33-31 15	41-38 19	49-45 22	59-54 27				
			40-35	50-45	60-60	80-70	90-90				
Electrical Consolu	MOP	Α	15	20	30	35	45				
Electrical Supply	SCCR	А	5	5	5	5	5				
	Recommend-		30	40	50	60	70				
	ed Fuse Size	А	15	20	25	30	40				
	Type X Quanti	tv	Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2				
E	Airflow Rate	CFM	6,000	6,700	7,750	9,200	10,600				
Fan	External Statio	:			2, 0.24, 0.32 in.WG; factor	•					
	Pressure Type X Quantii	tv	Inverter scroll hermetic compressor x 1								
Compressor	Operating Ran		15% to 100%	15% to 100%	15% to 100%	15% to 100%	15% to 100%				
,	Lubricant	ge	1570 to 10070	1370 to 10070	MEL32	15% to 100%	1370 to 10070				
Refrigerant	Туре			R410A							
External Finish	31.		Pre-coated	galvanized steel sheet (+	powder coating for -BS ty	(ng) < MIINSELL 3V 78/1	1 or similar>				
LXterrial Fillish			Fie-coated	gaivanized steel sheet (1		ype) \1101\3LLL 31 7.0/1.	i or sirillar				
Dimensions	Height Width	ln.	36-4/16	48-14/16	71-10/16 48-14/16	48-14/16	68-15/16				
Dimensions	Depth	111.	29-3/1	29-3/16	29-3/16	29-3/16	29-3/16				
	Берит		479	569	594	640	713				
Net Weight		lbs.	512	605	629	675	748				
Sound Pressure Le		dB(A)	55.0/57.5	56.5/58.5	60.0/62.0	62.5/65.0	60.5/64.5				
Sound Pressure Le (Measured in Anec	vel	dB(A)	74.0/76.5	75.5/77.5	80.0/81.0	83.0/84.0	79.0/83.5				
(Medsured III Affec	High Pressure		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)								
Protection De- vices	Inverter Circuit		Over-current protection								
	(Compressor/F	-an)		7/0 0 1 /2 /0 0							
Refrigerant Pipe	Liquid (High Pressure) (Brazed)		3/8 Brazed	3/8 Brazed (1/2 Brazed, the farthest pipe length >= 90 m)	3/8 Brazed (1/2 Brazed, the farthest pipe length >= 40 m)	1/2 Brazed	5/8 Brazed				
Dimensions	Gas (Low Pressure) (Brazed)	In.	7/8 Brazed	7/8 Brazed	1-1/8 Brazed	1-1/8 Brazed	1-1/8 Brazed				
Indoor Unit	Total capacity			50~	I30% of outdoor unit capa	acity					
Connectable	Model / Quant	ity	P05~P72/1~15	P05~P96/1~20	P05~P96/1~26	P05~P96/1~31	P05~P96/1~36				
Guaranteed	Cooling (Outd	oor) *2			23~126°F (-5~52°C)						
Operating Range *1	Heating (Outd	oor) *3			-4~60°F (-20~15.5°C)						
Extended Operating Range *4	Heating (Outd	oor)			-18~60°F (-28~15.5°C)						
	EER (Ducted/ Non-Ducted)		13.1 / 13.5	13.4 / 14.6	12.3 / 13.3	12.2 / 12.6	11.2 / 11.7				
Efficiency Ratings *5	IEER (Ducted/ Non-Ducted)	′	24.8 / 31.5	26.2 / 32.6	23.6 / 28.8	23.2 / 29.6	23.4 / 29.8				
	COP (Ducted/ Non-Ducted)		3.97 / 4.34	3.98 / 4.34	3.70 / 4.05	3.57 / 3.90	3.59 / 4.02				

#### NOTES:

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)

- 1. Harsh weather environments may demand performance enhancing equipment. Ask your Mitsubishi Electric representative for more details about your region.
- 2. For details on extended cooling operation range down to -10  $^{\rm o}$  F DB, see Low Ambient Kit Submittal.
- When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
- 4. Unit will continue to operate in extended operating range, but capacity is not guaranteed.
- 5. Efficiency ratings are based on AHRI 1230 test method



## PUHY-P\*\* (T/Y) NU-A

SPE	CIFICATIONS				MODEL NAMES				
			PUHY-P192TSNU-A (-BS)	PUHY-P216TSNU-A (-BS)	PUHY-P240TSNU-A (-BS)	PUHY-P264TSNU-A (-BS)	PUHY-P288TSNU-A (-BS		
/:		208V /230V	With 2 PUHY-P96TNU-A (-BS)	With 1 PUHY-P120TNU-A (-BS) and 1 PUHY-P96TNU-A (-BS)	With 2 PUHY-P120TNU-A (-BS)	With 2 PUHY-P96TNU-A (-BS) and 1 PUHY-P72TNU-A (-BS)	With PUHY-P120TNU-A (-BS) and PUHY-P96TNU-A (-BS) and PUHY-P72TNU-A (-BS)		
VOLTAGES			PUHY-P192YSNU-A (-BS)	PUHY-P216YSNU-A (-BS)	PUHY-P240YSNU-A (-BS)	PUHY-P264YSNU-A (-BS)	PUHY-P288YSNU-A (-BS		
		460V	With 2 PUHY-P96YNU-A (-BS)	With 1 PUHY-P120YNU-A (-BS) and 1 PUHY-P96YNU-A (-BS)	With 2 PUHY-P120YNU-A (-BS)	With 2 PUHY-P96YNU-A (-BS) and 1 PUHY-P72YNU-A (-BS)	With PUHY-P120YNU-A (-BS) and PUHY-P96YNU-A (-BS) and PUHY-P72YNU-A (-BS)		
Power Source	۵.			3-phas	se 3-wire 208-230 V ±10% 60	) Hz	ı		
					nase 3-wire 460 V ±10% 60 H				
Capacity (Nominal)		Btu/h Btu/h	192,000 216,000	216,000 243,000	240,000 270,000	264,000 296,000	288,000 323,000		
(1011111111)			Refer to:	Refer to:	Refer to:		Refer to:		
Electrical	MCA MOP	A	PUHY-P96TNU-A (-BS)	PUHY-P120TNU-A (-BS) PUHY-P96TNU-A (-BS)	PUHY-P120TNU-A (-BS)	PUHY-P96TNU-A (-BS) PUHY-P72TNU-A (-BS)	PUHY-P120TNU-A (-BS) PUHY-P96TNU-A (-BS)		
Supply	SCCR	A					PUHY-P72TNU-A (-BS)		
	Recommended Fuse Size	А	PUHY-P96YNU-A (-BS)	PUHY-P120YNU-A (-BS) PUHY-P96YNU-A (-BS)	PUHY-P120YNU-A (-BS)	PUHY-P96YNU-A (-BS) PUHY-P72YNU-A (-BS)	PUHY-P120YNU-A (-BS) PUHY-P96YNU-A (-BS) PUHY-P72YNU-A (-BS)		
	Type X Quantity	,							
Fan	Airflow Rate	CFM							
	External Static Pressure								
Compressor	Type X Quantity Operating Rang		7.5% to 100%	7.5% to 100%	7.5% to 100%	5% to 100%	5% to 100%		
00111p100001	Lubricant		Refer to:	Refer to:	Refer to:	Refer to:	Refer to:		
Refrigerant External Finis	efrigerant Type xternal Finish Height		PUHY-P96TNU-A (-BS)	PUHY-P120TNU-A (-BS) PUHY-P96TNU-A (-BS)	PUHY-P120TNU-A (-BS)	PUHY-P96TNU-A (-BS) PUHY-P72TNU-A (-BS)	PUHY-P120TNU-A (-BS PUHY-P96TNU-A (-BS PUHY-P72TNU-A (-BS		
Dimensions  Net Weight	Width Depth	In.	PUHY-P96YNU-A (-BS)	PUHY-P120YNU-A (-BS) PUHY-P96YNU-A (-BS)	PUHY-P120YNU-A (-BS)	PUHY-P96YNU-A (-BS) PUHY-P72YNU-A (-BS)	PUHY-P120YNU-A (-BS PUHY-P96YNU-A (-BS PUHY-P72YNU-A (-BS		
Sound Pressu	ıre Level Anechoic Room)	dB(A)	60.0/62.0	62.0/64.0	63.5/65.5	61.0/63.0	62.5/65.0		
Sound Pressu (Measured in	ıre Level Anechoic Room)	dB(A)	79.0/81.0	81.5/83.0	83.5/84.5	80.0/82.0	82.5/84.0		
Protection	High Pressure			High pressure sens	or, High pressure switch at 4	.15 MPa (601 psi)			
Devices	Inverter Circuit (Compressor/Fa	ın)			Over-current protection				
Refrigerant Pipe	Liquid (High Pressure) (Brazed)	ln.	5/8 Brazed	5/8 Brazed	5/8 Brazed	3/4 Brazed	3/4 Brazed		
Dimensions	Gas (Low Pressure) (Brazed)		1-1/8 Brazed	1-1/8 Brazed	1-1/8 Brazed	1-3/8 Brazed	1-3/8 Brazed		
Indoor Unit Connectable	Total capacity Model / Quantit	У	P05-P96/1-41	50- <sup>-</sup> P05-P96/2-46	130% of outdoor unit capaci P05~P96/2~50	P05~P96/2~50	P05~P96/2~50		
Guaranteed Operating	Cooling (Outdoor) *2				23-126°F (-5~52°C)				
Range *1	Heating (Outdoor) *3		-4-60°F (-20-15.5°C)						
Extended Operating Range *4	Heating (Outdo	or)			-18~60°F (-28~15.5°C)				
Ü	EER (Ducted/ Non-Ducted)		12.4 / 13.6	11.9 / 13.0	11.4 / 11.8	12.2 / 12.6	11.9 / 12.2		
Efficiency Ratings *5	IEER (Ducted/ Non-Ducted)		25.0 / 31.3	23.8 / 29.5	22.6 / 26.3	24.3 / 29.3	23.5 / 28.3		
	COP (Ducted/ Non-Ducted)		3.70/ 4.06	3.57 / 3.93	3.45 / 3.59	3.66 / 3.84	3.58 / 3.78		

### NOTES:

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

- Harsh weather environments may demand performance enhancing equipment.
   Ask your Mitsubishi Electric representative for more details about your region.
- 2. For details on extended cooling operation range down to -10  $^{\rm o}$  F DB, see Low Ambient Kit Submittal.
- 3. When applying product below  $-4^{\circ}F$ , consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
- 4. Unit will continue to operate in extended operating range, but capacity is not guaranteed.
- 5. Efficiency ratings are based on AHRI 1230 test method





SPECIFIC.	ATIONS		MODEL NAMES				
		208V	PUHY-P312TSNU-A (-BS)	PUHY-P336TSNU-A (-BS)	PUHY-P360TSNU-A (-BS)		
		/230V	With 2 PUHY-P120TNU-A (-BS) and 1 PUHY-P72TNU-A (-BS)	With 2 PUHY-P120TNU-A (-BS) and 1 PUHY-P96TNU-A (-BS)	With 3 PUHY-P120TNU-A (-BS)		
VOLTAGES			PUHY-P312YSNU-A (-BS)	PUHY-P336YSNU-A (-BS)	PUHY-P360YSNU-A (-BS)		
		460V	With 2 PUHY-P120YNU-A (-BS) and 1 PUHY-P72YNU-A (-BS)	With 2 PUHY-P120YNU-A (-BS) and 1 PUHY-P96YNU-A (-BS)	With 3 PUHY-P120YNU-A (-BS)		
				3-phase 3-wire 208-230 V ±10% 60 F	łz		
Power Source				3-phase 3-wire 460 V ±10% 60 Hz			
Conscitu (Naminal)	Cooling	Btu/h	312,000	336,000	360,000		
Capacity (Nominal)	Heating	Btu/h	350,000	378,000	405,000		
	MCA	А	Refer to:	Refer to:	Refer to:		
	МОР	А	PUHY-P120TNU-A (-BS) PUHY-P72TNU-A (-BS)	PUHY-P120TNU-A (-BS) PUHY-P96TNU-A (-BS)	PUHY-P120TNU-A (-BS)		
Electrical Supply	SCCR	А					
	Recommended Fuse Size	А	PUHY-P120YNU-A (-BS) PUHY-P72YNU-A (-BS)	PUHY-P120YNU-A (-BS) PUHY-P96YNU-A (-BS)	PUHY-P120YNU-A (-BS)		
	Type X Quantity						
Fan	Airflow Rate	CFM					
	External Static Pressure						
	Type X Quantity Operating Range						
Compressor			5% to 100%	5% to 100%	5% to 100%		
	Lubricant						
Refrigerant	Туре		Refer to: PUHY-P120TNU-A (-BS)	Refer to: PUHY-P120TNU-A (-BS)	Refer to: PUHY-P120TNU-A (-BS)		
External Finish			PUHY-P72TNU-A (-BS)	PUHY-P96TNU-A (-BS)			
	Height			PUHY-P120YNU-A (-BS)			
Dimensions	Width	ln.	PUHY-P120YNU-A (-BS)		DULLY DIOCYALL A ( DO)		
	Depth		PUHY-P72YNU-A (-BS)	PUHY-P96YNU-A (-BS)	PUHY-P120YNU-A (-BS)		
Net Weight		lbs.					
Sound Pressure Level (Measure	d in Anechoic Room)	dB(A)	64.0/66.0	64.0/66.0	65.0/67.0		
Sound Pressure Level (Measure	d in Anechoic Room)	dB(A)	84.0/85.0	84.0/85.0	85.0/86.0		
	High Pressure		High pressure	e sensor, High pressure switch at 4.15	MPa (601 psi)		
Protection Devices	Inverter Circuit (Compressor/Fan)			Over-current protection			
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	ln.		3/4 Brazed			
Kerngerant ripe Dimensions	Gas (Low Pressure) (Brazed)	111.	1-3/8 Brazed	1-5/8 Brazed	1-5/8 Brazed		
	Total capacity			50~130% of outdoor unit capacity			
Indoor Unit Connectable	Model / Quantity			P05~P96/2~50			
Guaranteed Operating	Cooling (Outdoor)	*2		23~126°F (-5~52°C)			
Range *1	Heating (Outdoor)	*3		-4~60°F (-20~15.5°C)			
Extended Operating Range *4	Heating (Outdoor)			-18~60°F (-28~15.5°C)			
	EER (Ducted/Non-	Ducted)	11.6 / 11.7	11.7 / 11.8	11.3 / 11.5		
Efficiency Ratings *5	IEER (Ducted/ Non	-Ducted)	22.7 / 26.7	23.2 / 26.6	22.4 / 25.7		
	COP (Ducted/ Non	-Ductod)	3.50 / 3.63	3.50 / 3.57	3.42 / 3.51		

#### NOTES:

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor:  $80^{\circ}\text{FD.B./67}^{\circ}\text{FW.B.}$  (26.7°CD.B./19.4°CW.B.), Outdoor:  $95^{\circ}\text{FD.B.}$  (35°CD.B.)

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

- Harsh weather environments may demand performance enhancing equipment.
   Ask your Mitsubishi Electric representative for more details about your region.
- 2. For details on extended cooling operation range down to -10  $^{\circ}$  F DB, see Low Ambient Kit Submittal.
- 3. When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
- Unit will continue to operate in extended operating range, but capacity is not guaranteed.
- 5. Efficiency ratings are based on AHRI 1230 test method



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SPEC	CIFICATIONS			MODEL NAMES			
208V			PUHY-P384TSNU-A (-BS)	PUHY-P408TSNU-A (-BS)	PUHY-P432TSNU-A (-BS)		
VOLTAGES		/230V	With 1 PUHY-P144TNU-A (-BS) and 2 PUHY-P120TNU-A (-BS)	With 2 PUHY-P144TNU-A (-BS) and 1 PUHY-P120TNU-A (-BS)	With 3 PUHY-P144TNU-A (-BS)		
			PUHY-P384YSNU-A (-BS)	PUHY-P408YSNU-A (-BS)	PUHY-P432YSNU-A (-BS)		
		460V	With 1 PUHY-P144YNU-A (-BS) and 2 PUHY-P120YNU-A (-BS)	With 2 PUHY-P144YNU-A (-BS) and 1 PUHY-P120YNU-A (-BS)	With 3 PUHY-P144YNU-A (-BS)		
			3	3-phase 3-wire 208-230 V ±10% 60 F			
Power Source				3-phase 3-wire 460 V ±10% 60 Hz			
Consoity (Nominal)	Cooling	Btu/h	384,000	408,000	432,000		
Capacity (Nominal)	Heating	Btu/h	430,000	455,000	480,000		
	MCA	А	Refer to:	Refer to:	Refer to:		
	MOP	А	PUHY-P144TNU-A (-BS) PUHY-P120TNU-A (-BS)	PUHY-P144TNU-A (-BS) PUHY-P120TNU-A (-BS)	PUHY-P144TNU-A (-BS)		
Electrical Supply	SCCR	А					
	Recommended Fuse Size	А	PUHY-P144YNU-A (-BS) PUHY-P120YNU-A (-BS)	PUHY-P144YNU-A (-BS) PUHY-P120YNU-A (-BS)	PUHY-P144YNU-A (-BS)		
	Type X Quantity  Airflow Rate CFM						
Fan							
	External Static Pressure						
	Type X Quantity						
Compressor	Operating Range		5% to 100%	5% to 100%	5% to 100%		
	Lubricant		Refer to:	Refer to:			
Refrigerant	Туре				Refer to:		
External Finish		ı	PUHY-P144TNU-A (-BS) PUHY-P120TNU-A (-BS) PUHY-P120TNU-A (-BS)		PUHY-P144TNU-A (-BS)		
	Height						
Dimensions	Width	ln.	PUHY-P144YNU-A (-BS)	PUHY-P144YNU-A (-BS)			
	Depth		PUHY-P120YNU-A (-BS)	PUHY-P120YNU-A (-BS)	PUHY-P144YNU-A (-BS)		
Net Weight		lbs.					
Sound Pressure Level (Measure	d in Anechoic Room)	dB(A)	66.0/68.5	67.0/69.0	67.5/70.0		
Sound Pressure Level (Measure	d in Anechoic Room)	dB(A)	86.5/87.5	87.0/88.0	88.0/89.0		
	High Pressure		High pressure	e sensor, High pressure switch at 4.15	MPa (601 psi)		
Protection Devices	Inverter Circuit (Compressor/Fan)			Over-current protection			
	Liquid (High Pressure) (Brazed)			3/4 Brazed			
Refrigerant Pipe Dimensions	Gas (Low Pressure) (Brazed)	ln.		1-5/8 Brazed			
In death link Control	Total capacity			50-130% of outdoor unit capacity			
Indoor Unit Connectable	Model / Quantity		P05~P96/2~50	P05~P96/3~50	P05-P96/3-50		
Guaranteed Operating Range	Cooling (Outdoor) *2			23~126°F (-5~52°C)			
*1	Heating (Outdoor) *3			-4~60°F (-20~15.5°C)			
Extended Operating Range *4	Heating (Outdoor)			-18-60°F (-28-15.5°C)			
	EER (Ducted/Non-Ducted)		11.3 / 11.2	11.3 / 10.9	11.3 / 10.7		
Efficiency Ratings *5	IEER (Ducted/Non-Ducted)		22.3 / 25.8	22.2 / 25.8	22.1 / 25.9		
	COP (Ducted/Non-Ducted)		3.39 / 3.45	3.35 / 3.38	3.31 / 3.32		

#### NOTES:

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor:  $80^{\circ}\text{FD.B./67}^{\circ}\text{FW.B.}$  (26.7°CD.B./19.4°CW.B.), Outdoor:  $95^{\circ}\text{FD.B.}$  (35°CD.B.)

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

- 1. Harsh weather environments may demand performance enhancing equipment. Ask your Mitsubishi Electric representative for more details about your region.
- 2. For details on extended cooling operation range down to -10  $^{\circ}$  F DB, see Low Ambient Kit Submittal.
- 3. When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
- 4. Unit will continue to operate in extended operating range, but capacity is not guaranteed.
- 5. Efficiency ratings are based on AHRI 1230 test method



# SPECIFICATIONS: Y-SERIES (HIGH EFFICIENCY)

## PUHY-EP\*\* (T/Y) NU-A

S	SPECIFICATIONS			MODEL NAMES				
VOLTAGES		208V /230V	PUHY-EP72TNU-A (-BS)	PUHY-EP96TNU-A (-BS)	PUHY-EP120TNU-A (-BS)			
		460V	PUHY-EP72YNU-A (-BS)	PUHY-EP96YNU-A (-BS)	PUHY-EP120YNU-A (-BS)			
			3-	phase 3-wire 208-230 V ±10% 60 H:	Z			
Power Source				3-phase 3-wire 460 V ±10% 60 Hz				
	Cooling	Btu/h	72,000	96,000	120,000			
Capacity (Nominal)	Heating	Btu/h	80,000	108,000	135,000			
	-		23-21	31-29	40-37			
	MCA	Α	10	14	18			
			35-30	45-40	60-50			
Electrical Supply	MOP	Α	15	20	25			
	SCCR	А	5	5	5			
			30	40	50			
	Recommended Fuse Size	Α	15	20	25			
	Type X Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2			
Fan	Airflow Rate	CFM	6,000	6,700	7,750			
	External Static Pressure		Selectable; 0, 0.12, 0.24, 0.32 in.WG; factory set to 0 in.WG					
	Type X Quantity		In	overter scroll hermetic compressor x	1			
Compressor	Operating Range		15% to 100%	15% to 100%	15% to 100%			
Compressor	Lubricant		1370 to 10076	MEL32	13% to 100%			
Refrigerant	Туре			R410A				
	Туре		Due and all makes and about the		MUNICELL ZV ZO /11iil			
External Finish	<u> </u>		Pre-coated gaivanized steel sne	eet (+powder coating for -BS type) <	MUNSELL SY 7.8/1.1 Or Similar>			
	Height	-	71-5/8					
Dimensions	Width	ln.	36-1/4	48-7/8	48-7/8			
	Depth			29-3/16				
Net Weight		lbs.	512	622	633			
			545	657	668			
Sound Pressure Level (Measured in Anecho		dB(A)	55.0/57.0	56.0/58.5	59.5/61.5			
Sound Pressure Level (Measured in Anecho		dB(A)	74.0/76.0	75.0/77.5	79.5/80.5			
Protection Devices	High Pressure		High pressure	sensor, High pressure switch at 4.15	MPa (601 psi)			
	Inverter Circuit (Compressor,	/Fan)		Over-current protection				
Refrigerant Pipe	Liquid (High Pressure) (Brazed)	In.	3/8 Brazed	3/8 Brazed (1/2 Brazed, the farthest pipe length >= 90 m)	3/8 Brazed (1/2 Brazed, the far- thest pipe length >= 40 m)			
Dimensions	Gas (Low Pressure) (Brazed)	""	7/8 Brazed	7/8 Brazed	1-1/8 Brazed			
Indoor Unit	Total capacity			50~130% of outdoor unit capacity				
Connectable Model / Quantity			P05~P72/1~15	P05~P96/1~20	P05~P96/1~26			
Guaranteed Oper-	Cooling (Outdoor) *2			23~126°F (-5~52°C)				
ating Range *1	Heating (Outdoor) *3			-13F~60°F (-25~15.5°C)				
Extended Operating Range *4	Heating (Outdoor)			-25-60°F (-31.5-15.5°C)				
Range *4	- '		17 5 / 15 5	141 / 15 7	17 7 / 14 7			
	EER (Ducted/Non-Ducted)			14.1 / 15.3	13.3 / 14.3			
Efficiency Ratings *5	EER (Ducted/Non-Ducted)  IEER (Ducted/Non-Ducted)		13.5 / 15.5 25.3 / 32.5	26.7 / 34.0	25.4 / 30.8			

#### NOTES:

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)

- Harsh weather environments may demand performance enhancing equipment.
   Ask your Mitsubishi Electric representative for more details about your region.
- 2. For details on extended cooling operation range down to -10  $^{\circ}$  F DB, see Low Ambient Kit Submittal.
- 3. When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
- 4. Unit will continue to operate in extended operating range, but capacity is not guaranteed.
- 5. Efficiency ratings are based on AHRI 1230 test method



# SPECIFICATIONS: Y-SERIES (HIGH EFFICIENCY)

## PUHY-EP\*\* (T/Y) NU-A

	SPECIFICATIONS		MODEL NAMES				
VOLTAGES		208V /230V	PUHY-EP144TNU-A (-BS)	PUHY-EP168TNU-A (-BS)	PUHY-EP192TNU-A (-BS)		
		460V	PUHY-EP144YNU-A (-BS)	PUHY-EP168YNU-A (-BS)	PUHY-EP192YNU-A (-BS)		
D C			3	-phase 3-wire 208-230 V ±10% 60 F	Hz		
Power Source				3-phase 3-wire 460 V ±10% 60 Hz			
	Cooling	Btu/h	144,000	168,000	192,000		
Capacity (Nominal)	Heating	Btu/h	160,000	188,000	215,000		
			47-44	56-51	68-62		
	MCA	А	21	25	31		
			70-70	90-80	110-100		
Electrical Supply	MOP	А					
	0000		35	40	40		
	SCCR	А	5	5 70	5 70		
	Recommended Fuse Size	А	30	40	40		
	Type X Quantity			Propeller fan x 2			
Fan	Airflow Rate	CFM	9,200	10,600	12,700		
	External Static Pressure		Selectable; 0, 0.12, 0.24, 0.32 in.WG; factory set to 0 in.WG				
	Type X Quantity			nverter scroll hermetic compressor			
Compressor	Operating Range		15% to 100%	15% to 100%	15% to 100%		
	Lubricant		10% to 100%	MEL32	10% to 100%		
Refrigerant	Туре			R410A			
External Finish			Pre-coated galvanized steel she	eet (+powder coating for -BS type)	<munsell 1.1="" 3y="" 7.8="" or="" similar:<="" td=""></munsell>		
	Height		71-5/8				
Dimensions	Width	ln.	48-7/8	68-15/16	68-15/16		
	Depth		·	29-3/16	·		
	<u> </u>		680	757	757		
Net Weight		lbs.	715	788	788		
Sound Pressure Level (	Measured in Anechoic Room)	dB(A)	62.0/64.5	60.0/61.5	61.5/63.5		
Sound Pressure Level (Measured in Anechoic	Room)	dB(A)	82.5/83.5	78.5/80.5	80.0/82.5		
	High Pressure		High pressure	sensor, High pressure switch at 4.15	MPa (601 psi)		
Protection Devices	Inverter Circuit (Compressor/Fa	an)	Over-current protection				
Refrigerant Pipe	Liquid (High Pressure) (Brazed)		1/2 Brazed	5/8 Brazed	5/8 Brazed		
Dimensions	Gas (Low Pressure) (Brazed)	ln.	1-1/8 Brazed	1-1/8 Brazed	1-1/8 Brazed		
Indoor Unit	Total capacity			50-130% of outdoor unit capacity			
Connectable Model / Quantity		P05~P96/1~31	P05~P96/1~36	P05~P96/1~41			
Guaranteed Operating Cooling (Outdoor) *2				23~126°F (-5~52°C)			
Range *1 Heating (Outdoor) *3				-13F~60°F (-25~15.5°C)			
Extended Operating Range *4	Heating (Outdoor)			-25~60°F (-31.5~15.5°C)			
	EER (Ducted/Non-Ducted)		12.4 / 13.4	11.7 / 12.4	10.7 / 11.7		
Efficiency							
Efficiency Ratings *5	IEER (Ducted/Non-Ducted)		24.6 / 30.4	24.0 / 31.2	23.1 / 30.0		

#### NOTES:

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor:  $80^{\circ}\text{FD.B./67}^{\circ}\text{FW.B.}$  (26.7°CD.B./19.4°CW.B.), Outdoor:  $95^{\circ}\text{FD.B.}$  (35°CD.B.)

- Harsh weather environments may demand performance enhancing equipment.
   Ask your Mitsubishi Electric representative for more details about your region.
- 2. For details on extended cooling operation range down to -10° F DB, see Low
- 3. When applying product below  $-4\,^{\circ}\text{F}$ , consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
- Unit will continue to operate in extended operating range, but capacity is not guaranteed.
- 5. Efficiency ratings are based on AHRI 1230 test method





# SPECIFICATIONS: ▼ Y-SERIES (HIGH EFFICIENCY)

	SPECIFICATIONS		MODEL	NAMES			
VOLTAGES		208V /230V	PUHY-EP216TNU-A (-BS)	PUHY-EP240TNU-A (-BS)			
		460V	PUHY-EP216YNU-A (-BS)	PUHY-EP240YNU-A (-BS)			
			3-phase 3-wire 208	3-230 V ±10% 60 Hz			
Power Source			3-phase 3-wire 4	60 V ±10% 60 Hz			
	Cooling	Btu/h	216,000	240,000			
Capacity (Nominal)	Heating	Btu/h	243,000	250,000			
			71/65	79/73			
	MCA	A	32	36			
			110/110	125/110			
Electrical Supply	MOP	A	50	60			
	SCCR	А	!	5			
			80/80	90/90			
	Recommended Fuse Size	A	40	50			
	Type X Quantity		Propelle	er fan x 2			
Fan	Airflow Rate	CFM	14,	100			
	External Static Pressure		Selectable; 0, 0.12, 0.24, 0.32	in.WG; factory set to 0 in.WG			
	Type X Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor			
Compressor	Operating Range		15% to 100%	15% to 100%			
Compressor	Lubricant			L32			
Dofrigorant				10A			
Refrigerant	Туре						
External Finish	I			er coating for -BS type) <munsell 1="" 5y="" 8="">"</munsell>			
	Height	_	71-5/8				
Dimensions	Width	In.	68-15/16				
	Depth		29-3/16				
Net Weight		lbs.	874 (396)				
			904 (410)				
Sound Pressure Level (Measured in Anecho		dB(A)	66.5/67.5	67.5/68.0			
Sound Pressure Level (Measured in Anecho		dB(A)	85.5/86.5	86.5/87.0			
	High Pressure		High pressure sensor, High pres	sure switch at 4.15 MPa (601 psi)			
Protection Devices	Inverter Circuit (Compressor	/Fan)	Over-heat protection, (	Over-current protection			
Refrigerant Pipe	Liquid (High Pressure) (Brazed)	l.	5/8 (15.8:	8) Brazed			
Dimensions	Gas (Low Pressure) (Brazed)	In.	1-1/8 (28.5	8) Brazed			
Indoor Unit	Total capacity		50~150% of outd	oor unit capacity			
Connectable	Model / Quantity		P05~P96/2~46	P05~P96/2~50			
Guaranteed	Cooling (Outdoor) *2		23~126°F	(-5~52°C)			
Operating Range *1	Heating (Outdoor) *3		-4-60°F (-	20~15.5°C)			
Extended Operating Range *4	Heating (Outdoor)		-25-60°F (-	31.5-15.5°C)			
	EER (Ducted/Non-Duc	ted)	11.0 / 11.9	10.6 / 10.6			
Efficiency Ratings *5	IEER (Ducted/Non-Duc	ted)	20.5 / 26.0	20.3 / 24.1			
	COP (Ducted/Non-Duc	ted)	3.3 / 3.72	3.25 / 3.5			

#### NOTES

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)

- Harsh weather environments may demand performance enhancing equipment.
   Ask your Mitsubishi Electric representative for more details about your region.
- 2. For details on extended cooling operation range down to -10  $^{\rm o}$  F DB, see Low Ambient Kit Submittal.
- 3. When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating
- 4. Unit will continue to operate in extended operating range, but capacity is not guaranteed.
- 5. Efficiency ratings are based on AHRI 1230 test method





# SPECIFICATIONS: Y-SERIES (HIGH EFFICIENCY)

	SPECIFICATIONS		MODEL NAMES					
			PUHY-EP192TSNU-A (-BS)	PUHY-EP216TSNU-A (-BS)	PUHY-EP240TSNU-A (-BS)	PUHY-EP264TSNU-A (-BS)		
		208V /230V	With 2 PUHY-EP96TNU-A (-BS)	With 1 PUHY-EP120TNU-A (-BS) and 1 PUHY-EP96TNU-A (-BS)	With 2 PUHY-EP120TNU-A (-BS)	With 2 PUHY-EP96TNU-A (-BS) and 1 PUHY-EP72TNU-A (-BS)		
			PUHY-EP192YSNU-A (-BS)	PUHY-EP216YSNU-A (-BS)	PUHY-EP240YSNU-A (-BS)	PUHY-EP264YSNU-A (-BS)		
		460V	With 2 PUHY-EP96YNU-A (-BS)	With 1 PUHY-EP120YNU-A (-BS) and 1 PUHY-EP96YNU-A (-BS)	With 2 PUHY-EP120YNU-A (-BS)	With 2 PUHY-EP96YNU-A (-BS) and 1 PUHY-EP72YNU-A (-BS)		
				3-phase 3-wire 208	3-230 V ±10% 60 Hz			
Power Source				3-phase 3-wire 4	60 V ±10% 60 Hz			
	Cooling	Btu/h	192,000	216,000	240,000	264,000		
Capacity (Nominal)	Heating	Btu/h	216,000	243,000	270,000	296,000		
	MCA	А	Refer to: PUHY-EP96TNU-A (-BS)	Refer to: PUHY-EP120TNU-A (-BS)	Refer to: PUHY-EP120TNU-A (-BS)	Refer to: PUHY-EP96TNU-A (-BS)		
Electrical Supply	MOP	А		PUHY-EP96TNU-A (-BS)		PUHY-EP72TNU-A (-BS)		
	SCCR	Α						
	Recommended Fuse Size	А	PUHY-EP96YNU-A (-BS)	PUHY-EP120YNU-A (-BS) PUHY-EP96YNU-A (-BS)	PUHY-EP120YNU-A (-BS)	PUHY-EP96YNU-A (-BS) PUHY-EP72YNU-A (-BS)		
	Type X Quantity							
Fan	Airflow Rate CFM		_					
	External Static Pressure							
	Type X Quantity							
Compressor	Operating Range		7.5% to 100%	7.5% to 100%	7.5% to 100%	5% to 100%		
	Lubricant		Refer to:		Refer to: PUHY-EP120TNU-A (-BS)	Refer to: PUHY-EP96TNU-A (-BS) PUHY-EP72TNU-A (-BS)		
Refrigerant External Finish	Туре		PUHY-EP96TNU-A (-BS)	PUHY-EP120TNU-A (-BS) PUHY-EP96TNU-A (-BS)				
External Finish	Height			PUHY-EP96TNU-A (-B5)		PUHY-EP72TNU-A (-B5)		
Dimensions	Width	ln.						
	Depth	1	PUHY-EP96YNU-A (-BS)	PUHY-EP120YNU-A (-BS)	PUHY-EP120YNU-A (-BS)	PUHY-EP96YNU-A (-BS)		
Net Weight		lbs.		PUHY-EP96YNU-A (-BS)		PUHY-EP72YNU-A (-BS)		
Sound Pressure Leve	l (Measured in Anechoic Room)	dB(A)	59.5/62.0	61.5/63.5	63.0/65.0	60.5/63.0		
Sound Pressure Leve	I (Measured in Anechoic Room)	dB(A)	78.5/81.0	81.0/82.5	83.0/84.0	79.5/82.0		
	High Pressure		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)					
Protection Devices	Inverter Circuit (Compressor/Fan)			Over-currer	nt protection			
Refrigerant Pipe	Liquid (High Pressure) (Brazed)	In.	5/8 Brazed	5/8 Brazed	5/8 Brazed	3/4 Brazed		
Dimensions	Gas (Low Pressure) (Brazed)	111.	1-1/8 Brazed	1-1/8 Brazed	1-1/8 Brazed	1-3/8 Brazed		
Indoor Unit	Total capacity			50~130% of outd	oor unit capacity			
Connectable	Model / Quantity		P05~P96/1~41	P05~P96/2~46	P05~P96/2~50	P05~P96/2~50		
Guaranteed	Cooling (Outdoor) *2			23~126°F	(-5~52°C)			
Operating Range *1	Heating (Outdoor) *3			-13F~60°F (	(-25~15.5°C)			
Extended Operating Range *4	Heating (Outdoor)	,		-25~60°F (-	-31.5~15.5°C)			
	EER (Ducted/Non-Ducted)		13.0 / 14.3	12.7 / 13.8	12.3 / 12.5	12.7 / 13.4		
Efficiency	IEER (Ducted/Non-Ducted)		25.3 / 32.6	24.8 / 31.1	24.2 / 27.7	24.6 / 30.0		
Ratings *5	COP (Ducted/Non-Ducted)		3.75 / 4.11	3.65 / 4.03	3.54 / 3.73	3.72 / 3.94		
	COT (Ducted) Non-Ducted)		3.73 / 4.11	3.03 / 4.03	3.54 / 3.73	3.72 / 3.34		

#### NOTES:

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor:  $80^{\circ}\text{FD.B./67}^{\circ}\text{FW.B.}$  (26.7°CD.B./19.4°CW.B.), Outdoor:  $95^{\circ}\text{FD.B.}$  (35°CD.B.)

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

Twinning kit is required for combining multiple individual outdoor units in the field for  $% \left( 1\right) =\left( 1\right) =\left( 1\right)$ 

PUHY-EPT(Y)SNU combined systems.

- Harsh weather environments may demand performance enhancing equipment.
   Ask your Mitsubishi Electric representative for more details about your region.
- 2. For details on extended cooling operation range down to -10  $^{\rm o}$  F DB, see Low Ambient Kit Submittal.
- 3. When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
- 4. Unit will continue to operate in extended operating range, but capacity is not guaranteed.
- 5. Efficiency ratings are based on AHRI 1230 test method





# SPECIFICATIONS: Y-SERIES (HIGH EFFICIENCY)

March		SPECIFICATIONS		MODEL NAMES						
VOLTACES	VOLTAGES /230			PUHY-EP288TSNU-A (-BS)	PUHY-EP312TSNU-A (-BS)	PUHY-EP336TSNU-A (-BS)	PUHY-EP360TSNU-A (-BS)			
Power Source			/230V	(-BS) and PUHY-EP96TNU-A (-BS) and PUHY-EP72TNU-A	PUHY-EP120TNU-A (-BS) and 1 PUHY-EP72TNU-A	PUHY-EP120TNU-A (-BS) and 1 PUHY-EP96TNU-A				
Power Source				PUHY-EP288YSNU-A (-BS)	PUHY-EP312YSNU-A (-BS)	PUHY-EP336YSNU-A (-BS)	PUHY-EP360YSNU-A (-BS)			
Power Source			460V	(-BS) and PUHY-EP96YNU-A (-BS) and PUHY-EP72YNU-A	PUHY-EP120YNU-A (-BS) and 1 PUHY-EP72YNU-A	PUHY-EP120YNU-A (-BS) and 1 PUHY-EP96YNU-A				
Cobing				3-phase 3-wire 208-230 V ±10% 60 Hz						
Heating	Power Source			3-phase 3-wire 460 V ±10% 60 Hz						
Heating	Composite a Olemania al N	Cooling	Btu/h	288,000	312,000	336,000	360,000			
Mach	Capacity (Nominal)	Heating	Btu/h	323,000	350,000	378,000	405,000			
Bectrical Supply		MCA	А	PUHY-EP120TNU-A (-BS)	PUHY-EP120TNU-A (-BS)	PUHY-EP120TNU-A (-BS)				
Recommended   Purple   Purp	Electrical Supply	MOP	А		PUHY-EP72TNU-A (-BS)	PUHY-EP96TNU-A (-BS)				
Fuse Size		SCCR	А							
Park			А		, ,		PUHY-EP120YNU-A (-BS)			
External Static   Pressure   Type X Quantity		Type X Quantity	1	PUHY-EP72YNU-A (-BS)	PUHY-EP72YNU-A (-BS)					
Pressure   Pressure	Fan		CFM							
Compressor   Co				-						
Refer to:   PUHY-EP120TNU-A (-BS)   PUHY-EP20TNU-A (-BS)   PUHY-EP120TNU-A										
Refrigerant   Type   Puhy-Eprizonnu-A (-Bs) Puhy-Eprizonnu-A (-Bs	Compressor									
Puty-EP96TNU-A (-BS)   Puty-EP97ZNU-A (-BS)   Puty-EP96TNU-A (-BS)	- 41			-						
Height   Midth   Dimensions   Midth   Dipth   Dipth	_	Туре					PUHT-EPIZUTNU-A (-BS)			
Dimensions   Width   Depth	External Fillish	Height								
Depth   Dept	Dimensions		In.		· · ·		PUHY-EP120YNU-A (-BS)			
Net Weight   Ibs.   PUHY-EP72YNU-A (-BS)   PUHY-EP99YNU-A (-BS)   PUHY-EP99YNU-A (-BS)										
Sound Pressure Level (Measured in Anechoic Room)   dB(A)   82.0/83.5   83.5/84.5   83.5/84.5   84.5/85.5	Net Weight		lbs.	1 1	PUHY-EP72YNU-A (-BS)	PUHY-EP96YNU-A (-BS)				
High Pressure   High Pressure   High Pressure   High Pressure sensor, High pressure sensor, High pressure switch at 4.15 MPa (601 pt.)   Inverter Circuit (Compressor/F	Sound Pressure Leve	l (Measured in Anechoic Room)	dB(A)	62.5/64.5	63.5/65.5	63.5/65.5	64.5/66.5			
Protection Devices   Inverter Circuit (Compressor/Fan)   Invert	Sound Pressure Leve	l (Measured in Anechoic Room)	dB(A)	82.0/83.5	83.5/84.5	83.5/84.5	84.5/85.5			
New   New	5	High Pressure		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)						
Refrigerant Pipe Dimensions   Gas (Low Pressure) (Brazed)   1-3/8 Brazed   1-3/8 Brazed   1-5/8 Brazed   1-5/	Protection Devices	Inverter Circuit (Compressor/Fa	an)	Over-current protection						
Dimensions   Gas (Low   Pressure) (Brazed)   1-3/8 Brazed   1-3/8 Brazed   1-5/8 Brazed   1-5/	Refrigerant Pipe	Liquid (High Pressure) (Brazed)			3/4 Brazed					
Model / Quantity	Dimensions		111.	1-3/8 Brazed	1-3/8 Brazed	1-5/8 Brazed	1-5/8 Brazed			
Connectable         Model / Quantity         P05-P96/2-50           Guaranteed Operating Range *1         Cooling (Outdoor) *2         23-126°F (-5-52°C)           Extended Operating Range *4         Heating (Outdoor)         *3         -25-60°F (-31.5-15.5°C)           Egy (Ducted/Non-Ducted)         12.4 / 13.2         12.2 / 12.6         12.4 / 12.3         12.2 / 12.1           Efficiency Ratings *5         IEER (Ducted/Non-Ducted)         24.2 / 29.3         23.9 / 27.7         24.3 / 27.6         24.0 / 26.9	Indoor Unit	Total capacity		50-130% of outdoor unit capacity						
Operating Range *1         Heating (Outdoor) *3         -13F-60°F (-25-15.5°C)           Extended Operating Range *4         Heating (Outdoor)         -25-60°F (-31.5-15.5°C)           EER (Ducted/Non-Ducted)         12.4 / 13.2         12.2 / 12.6         12.4 / 12.3         12.2 / 12.1           Efficiency Ratings *5         IEER (Ducted/Non-Ducted)         24.2 / 29.3         23.9 / 27.7         24.3 / 27.6         24.0 / 26.9		Model / Quantity		P05-P96/2-50						
Range *1         Heating (Outdoor) *3         -13F-60°F (-25-15.5°C)           Extended Operating Range *4         Heating (Outdoor)         -25-60°F (-31.5-15.5°C)           EER (Ducted/Non-Ducted)         12.4 / 13.2         12.2 / 12.6         12.4 / 12.3         12.2 / 12.1           Efficiency Ratings *5         IEER (Ducted/Non-Ducted)         24.2 / 29.3         23.9 / 27.7         24.3 / 27.6         24.0 / 26.9		Cooling (Outdoor) *2	Cooling (Outdoor) *2		23-126°F (-5-52°C)					
Range *4 EER (Ducted/Non-Ducted) 12.4 / 13.2 12.2 / 12.6 12.4 / 12.3 12.2 / 12.1 EER (Ducted/Non-Ducted) 24.2 / 29.3 23.9 / 27.7 24.3 / 27.6 24.0 / 26.9		Heating (Outdoor) *3		-13F-60°F (-25-15.5°C)						
Efficiency Ratings *5 IEER (Ducted/Non-Ducted) 24.2 / 29.3 23.9 / 27.7 24.3 / 27.6 24.0 / 26.9		Heating (Outdoor)		-25-60°F (-31.5-15.5°C)						
		EER (Ducted/Non-Ducted)		12.4 / 13.2	12.2 / 12.6	12.4 / 12.3	12.2 / 12.1			
COP (Ducted/Non-Ducted) 3.65 / 3.91 3.58 / 3.78 3.58 / 3.68 3.51 / 3.65	Efficiency Ratings *5	IEER (Ducted/Non-Ducted)		24.2 / 29.3	23.9 / 27.7	24.3 / 27.6	24.0 / 26.9			
		COP (Ducted/Non-Ducted)		3.65 / 3.91	3.58 / 3.78	3.58 / 3.68	3.51 / 3.65			

### NOTES:

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

- Harsh weather environments may demand performance enhancing equipment.
   Ask your Mitsubishi Electric representative for more details about your region.
- 2. For details on extended cooling operation range down to -10  $^{\circ}$  F DB, see Low Ambient Kit Submittal.
- 3. When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
- 4. Unit will continue to operate in extended operating range, but capacity is not guaranteed.
- 5. Efficiency ratings are based on AHRI 1230 test method





## PUHY-EP\*\* (T/Y) NU-A

SPECIF	FICATIONS		MODEL NAMES					
			PUHY-EP384TSNU-A (-BS)	PUHY-EP408TSNU-A (-BS)	PUHY-EP432TSNU-A(-BS)			
VOLTAGES 208V /230V 460V			With 1 PUHY-EP144TNU-A (-BS) and 2 PUHY-EP120TNU-A (-BS)	With 2 PUHY-EP144TNU-A (-BS) and 1 PUHY-EP120TNU-A (-BS)	With 3 PUHY-EP144TNU-A (-BS)			
			PUHY-EP384YSNU-A (-BS)	PUHY-EP408YSNU-A (-BS)	PUHY-EP432YSNU-A (-BS)			
				With 2 PUHY-EP144YNU-A (-BS) and 1 PUHY-EP120YNU-A (-BS)	With 3 PUHY-EP144YNU-A (-BS)			
			3-phase 3-wire 208-230 V ±10% 60 Hz					
Power Source			3-phase 3-wire 460 V ±10% 60 Hz					
	Cooling	Btu/h	384,000	408,000	432,000			
Capacity (Nominal)	Heating	Btu/h	430,000	455,000	480,000			
	МСА	А	Refer to: PUHY-EP144TNU-A (-BS)	Refer to: PUHY-EP144TNU-A (-BS)	Refer to:			
Electrical Supply	MOP	А	PUHY-EP120TNU-A (-BS)	PUHY-EP120TNU-A (-BS)	PUHY-EP144TNU-A (-BS)			
	SCCR	А	DILLIN EDIAANALLA ( BC)	DUILIN EDIAANAILA ( DC)				
	Recommended Fuse Size A		PUHY-EP144YNU-A (-BS) PUHY-EP120YNU-A (-BS)	PUHY-EP144YNU-A (-BS) PUHY-EP120YNU-A (-BS)	PUHY-EP144YNU-A (-BS)			
	Type X Quantity							
Fan	Airflow Rate CFM							
	External Static Pressure							
	Type X Quantity							
Compressor	Operating Range		5% to 100%	5% to 100%	5% to 100%			
	Lubricant		Refer to:	Refer to:	Refer to:			
Refrigerant	Туре		PUHY-EP144TNU-A (-BS)	PUHY-EP144TNU-A (-BS)				
External Finish			PUHY-EP120TNU-A (-BS)	PUHY-EP120TNU-A (-BS)	PUHY-EP144TNU-A (-BS)			
	Height				PUHY-EP144YNU-A (-BS)			
Dimensions	Width	ln.	PUHY-EP144YNU-A (-BS)	PUHY-EP144YNU-A (-BS) PUHY-EP120YNU-A (-BS)				
	Depth		PUHY-EP120YNU-A (-BS)					
Net Weight		lbs.						
Sound Pressure Level (Measure	d in Anechoic Room)	dB(A)	65.5/68.0	66.5/68.5	67.0/69.5			
Sound Pressure Level (Measure	d in Anechoic Room)	dB(A)	86.0/87.0 86.5/87.5		87.5/88.5			
Protection Devices	High Pressure	High Pressure		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				
	Inverter Circuit (Compressor/Fan)		Over-current protection					
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	ln.	3/4 Brazed					
Kerngerant ripe Dimensions	Gas (Low Pressure) (Brazed)	111.	1-5/8 Brazed					
Indoor Unit Connectable	Total capacity		50-130% of outdoor unit capacity					
Model / Quantity			P05-P96/2-50 P05-P96/3-50 P05-P96/3-50					
Guaranteed Operating Range *1 Cooling (Outdoor) *2 Heating (Outdoor) *3			23-126°F (-5-52°C)					
			-13F-60°F (-25-15.5°C)					
Extended Operating Range *4 Heating (Outdoor)			-25-60°F (-31.5-15.5°C)					
	EER (Ducted/Non-Ducted)		11.9 / 11.8	11.7 / 11.4	11.4 / 11.1			
Efficiency Ratings *5	IEER (Ducted/Non-Ducted)		23.8 / 26.6	23.5 / 26.3	23.3 / 25.9			
	COP (Ducted/Non-Ducted)		3.48 / 3.57	3.45 / 3.49	3.41 / 3.41			

#### NOTES:

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

- Harsh weather environments may demand performance enhancing equipment.
   Ask your Mitsubishi Electric representative for more details about your region.
- 2. For details on extended cooling operation range down to -10  $^{\circ}$  F DB, see Low Ambient Kit Submittal.
- 3. When applying product below  $-4^{\circ}F$ , consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
- 4. Unit will continue to operate in extended operating range, but capacity is not guaranteed.
- 5. Efficiency ratings are based on AHRI 1230 test method





## PUHY-HP\*\* (T/Y) NU-A

SPECIFICATION			MODEL NAMES						
208V /230V		PUHY-HP72TNU-A PUHY-HP96TNU-A		PUHY-HP120TNU-A					
VOLTAGES 460V			PUHY-HP72YNU-A	PUHY-HP96YNU-A	PUHY-HP120YNU-A				
Dower Source			3-phase 3-wire 208-230 V ±10% 60 Hz						
Power Source			3-phase 3-wire 460 V ±10% 60 Hz						
Capacity (Nominal)	Cooling	Btu/h	72,000	96,000	120,000				
Capacity (Norminal)	Heating	Btu/h	80,000	108,000	135,000				
	MCA	A	38-35	43-40	47-43				
	MCA	A	17	20	21				
	MOP	_	60-50	70-60	70-60				
Electrical Supply	MOP	А	25	30	35				
	SCCR	А	5	5	5				
	Recommended Fuse		55	70	70				
	Size	А	25	30	35				
	Type X Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2				
Fan	Airflow Rate	CFM	6,700	7,400	7,750				
	External Static Pressure		Selectable; 0, 0.12, 0.24, 0.32 in.WG; factory set to 0 in.WG						
	Type X Quantity		Inverter scroll hermetic compressor x 1						
Compressor	Operating Range		15% to 100%	15% to 100%	15% to 100%				
	Lubricant		MEL46						
Refrigerant	Туре		R410A						
External Finish		Pre-coated galvanized steel sheet <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>							
	Height	In.	71-5/8						
Dimensions	Width	ln.							
	Depth	ln.	48-7/8 29-3/16						
			609	653	655				
Net Weight		lbs.	644	688	691				
Sound Pressure Level ( Room)	Measured in Anechoic	dB(A)	55.0/57.0 56.0/58.5		59.5/61.5				
Sound Pressure Level ( Room)	(Measured in Anechoic	dB(A)	74.0/76.0 75.0/77.5		79.5/80.5				
	High Pressure		Over-current protection						
Protection Devices	Inverter Circuit (Compressor/ Fan)		Over-current protection						
Refrigerant Pipe	Liquid (High Pressure) (Brazed)	In.	3/8 Brazed	3/8 Brazed (1/2 Brazed, the farthest pipe length >= 90 m)	3/8 Brazed (1/2 Brazed, the farthest pipe length >= 40 m)				
Dimensions	Gas (Low Pressure) (Brazed)	ln.	7/8 Brazed	7/8 Brazed	1-1/8 Brazed				
Indoor Unit	Total capacity		50-130% of outdoor unit capacity						
Connectable	Model / Quantity		P05-P72/1-15 P05-P96/1-20 P05-P96/1-26						
Guaranteed Operating Range *1	Cooling (Outdoor) *2		23-126°F (-5-52°C)						
	Heating (Outdoor) *3		-22-60°F (-30-15.5°C)						
Extended Operating Range *4	Heating (Outdoor)		-31-60°F (-35-15.5°C)						
Efficiency Ratings *5	EER (Ducted/Non-Duct	ed)	11.9 / 13.1	13.8 / 15.1	12.5 / 14.1				
	IEER (Ducted/Non-Ducted)		21.1 / 27.2	19.8 / 26.7	19.7 / 24.5				
	COP (Ducted/Non-Duct	15	4.03 / 4.39	4 / 4.35	3.76 / 4.26				

#### NOTES:

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

- 1. Harsh weather environments may demand performance enhancing equipment. Ask your Mitsubishi Electric representative for more details about your region.
- 2. For details on extended cooling operation range down to -10  $^{\circ}$  F DB, see Low Ambient Kit Submittal.
- 3. When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
- 4. Unit will continue to operate in extended operating range, but capacity is not
- 5. Efficiency ratings are based on AHRI 1230 test method





## PUHY-HP\*\* (T/Y) NU-A

SPECIFICATION			MODEL NAMES					
2087		208V	PUHY-HP144TSNU-A	PUHY-HP192TSNU-A	PUHY-HP240TSNU-A			
/:			With 2 PUHY-HP72TNU-A	With 2 PUHY-HP96TNU-A	With 2 PUHY-HP120TNU-A			
VOLTAGES		4001/	PUHY-HP144YSNU-A	PUHY-HP192YSNU-A	PUHY-HP240YSNU-A			
460V			With 2 PUHY-HP72YNU-A	With 2 PUHY-HP96YNU-A	With 2 PUHY-HP120YNU-A			
Davies Course		3-phase 3-wire 208-230 V ±10% 60 Hz						
Power Source		3-phase 3-wire 460 V ±10% 60 Hz						
Canacity (Naminal)	Cooling	Btu/h	144,000	192,000	240,000			
Capacity (Nominal)	Heating	Btu/h	160,000	215,000	270,000			
	МСА	А	Refer to: PUHY-HP72TNU-A	Refer to: PUHY-HP96TNU-A	Refer to: PUHY-HP120TNU-A			
Electrical Supply	МОР	А						
	SCCR	А	PUHY-HP72YNU-A	PUHY-HP96YNU-A	PUHY-HP120YNU-A			
	Recommended Fuse Size	А						
	Type X Quantity							
Fan	Airflow Rate	CFM						
	External Static Pressure							
	Type X Quantity							
Compressor	Operating Range		7.5% to 100%	7.5% to 100%	7.5% to 100%			
	Lubricant		Refer to:	Refer to:	Refer to:			
Refrigerant Type			PUHY-HP72TNU-A PUHY-HP96TNU-A PU		PUHY-HP120TNU-A			
External Finish	1							
	Height	ln.						
Dimensions	Width	ln.	PUHY-HP72YNU-A	PUHY-HP96YNU-A	PUHY-HP120YNU-A			
	Depth	ln.						
Net Weight		lbs.						
Sound Pressure Level (Measured in Anechoic Room)		dB(A)	58.5/60.5	59.5/62.0	63.0/65.0			
Sound Pressure Level (MRoom)	leasured in Anechoic	dB(A)	77.5/79.5	78.5/81.0	83.0/84.0			
Donate ation Desires	High Pressure			Over-current protection				
Protection Devices	Inverter Circuit (Compressor/Fan)		Over-current protection					
Refrigerant Pipe	Liquid (High Pressure) (Brazed)	ln.	1/2 Brazed	5/8 Brazed	5/8 Brazed			
Dimensions	Gas (Low Pressure) (Brazed)	ln.	1-1/8 Brazed	1-1/8 Brazed	1-1/8 Brazed			
Indoor Unit Connect-	Total capacity		50-130% of outdoor unit capacity					
able	Model / Quantity		P05-P96/1-31					
Guaranteed Operating	Cooling (Outdoor) *2		23-126°F (-5-52°C)					
Range *1	Heating (Outdoor) *3		-22-60°F (-30-15.5°C)					
Extended Operating Range *4 Heating (Outdoor)		-31-60°F (-35-15.5°C)						
	EER (Ducted/Non-Ducted	ed)	10.8 / 12.1	12.8 / 14.1	11.5 / 12.4			
Efficiency Ratings *5	IEER (Ducted/Non-Duct	ed)	19.7 / 25.9	18.8 / 25.6	18.7 / 22			
	COP (Ducted/Non-Ducted)		3.69 / 4.1	3.71 / 4.07	3.5 / 3.78			

#### NOTES:

Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor:  $80^{\circ}\text{FD.B./67}^{\circ}\text{FW.B.}$  (26.7°CD.B./19.4°CW.B.), Outdoor:  $95^{\circ}\text{FD.B.}$  (35°CD.B.)

Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

- Harsh weather environments may demand performance enhancing equipment.
   Ask your Mitsubishi Electric representative for more details about your region.
- 2. For details on extended cooling operation range down to -10° F DB, see Low Ambient Kit Submittal.
- 3. When applying product below  $-4^{\circ}F$ , consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
- 4. Unit will continue to operate in extended operating range, but capacity is not guaranteed.
- 5. Efficiency ratings are based on AHRI 1230 test method



# SPECIFICATIONS: S-SERIES (HYPER HEATING)

## PUMY-P\*\*NKMU2 and H2i®

					MODEL NAMES	Ki	h			
	SPECIFICATION		PUMY-P36NKMU2(- BS)	PUMY-P48NKMU2(- BS)	PUMY-P60NKMU2(- BS)	PUMY-HP36NKMU	PUMY-HP48NKML			
Power Source				20	08/230V, 1-Phase, 60Hz					
0 ': #1	Cooling	Btu/h	36,000	48,000	60,000	36,000	48,000			
Capacity *1	Heating	Btu/h	42,000	54,000	66,000	42,000	54,000			
	MCA	А	2	29	36 36		66			
Electrical Supply	Maximum Overcurrent Protection (MOP)	А	2	14	45	44				
Recommended Fuse Size A			30 40							
Short-circuit Cu	rrent Rating (SCCR)	kA			5					
	Type x Quantity				Propeller Fan x 2					
Fan	Airflow Rate	CFM	3,8	385	4,879	3,8	385			
	Motor Output	kW	2.8	3.3	3.9	2.8	3.4			
	Туре			INVERTER-driven Scroll Hermetic						
		Cooling	29% to 100%	23% to 100%	28% to 100%	29% to 100%	23% to 100%			
Compressor	Operating Range	Heating	24% to 100%	18% to 100%	18% to 100%	17% to 100%	16% to 100%			
	Motor Output	kW	0.074 + 0.074 (	two fan motors)	0.2 + 0.2 (two fan motors)	0.074 + 0.074 (two fan motors)				
Lubricant			FV50S (2.3 liters) FVC68D (2.3 liters) FV50S (2.3 liters)							
Refrigerant					R410A					
External Finish			Galvanized Sheets (plus Powder Coating for -BS Model) Munsell 3Y 7.8/1.1							
	Height	In.	52-11/16							
Dimensions	Width	In.	41-11/32							
	Depth	In.	13 (+1)							
Net Weight		Pounds	2	67	295	267				
Sound Pressure Levels (As Measured in an Anechoic Room) dB(A)		49/53	51/54	58/59	49/53	51/54				
	High Pressure Protec	tion	High Pressure Switch							
Protection Devices	Compressor		Discharge thermo protection, Over-current protection							
	Inverter Circuit		Over-heat protection, Over-current protection							
Refrigerant	Liquid (High Pressure) (Flare)	In.								
Pipe Dimensions	Gas (Low Pressure) (Flare)	In.	5	/8	3/4	5/8				
	Total Capacity		50-130% of Outdoor Unit Capacity							
Indoor Unit	Quantity		P05-P36 / 1-9							
Operating	Cooling		Outdoor: 5° to 115° F D.B. *3 *4							
Temperature Range Heating			Outdoor: -13° to +59° F W.B.							
Efficiency Ratin	gs *2		1							
EER (Ducted/N	on-Ducted)		12.6 / 15.0	11.3 / 13.1	11.1 / 13.3	12.6 / 15.0	11.3 / 13.1			
SEER (Ducted/Non-Ducted)			18.3 / 22.3	16.5 / 22.6	17.8 / 20.0	18.3 / 22.3	16.5 / 22.6			
COP (Ducted/Non-Ducted)			3.7 / 4.0	3.3 / 4.0	3.7 / 4.1	3.7 / 4.0	3.3 / 4.0			
•	Non-Ducted)		11.2 / 12.0	11.0 / 12.0	10.7 / 12.0	11.7 / 12.0	11.0 / 12.0			

#### Notes:

Cooling | Indoor: 80° F (26.7° C) DB/67° F (19.4° C) WB; Outdoor: 95° F (35° C) DB. Heating | Indoor: 70° F (21.1° C) DB; Outdoor: 47° F (8.3° C) DB/43° F (6.1° C) WB.

LIMITED WARRANTY | Seven-year warranty on compressor. One-year warranty on parts. See our website for details on specific additional application installation coverage.

Specifications are subject to change.

<sup>\*1</sup> Rating Conditions:

<sup>\*2</sup> Efficiencies values based in AHRI 210/240 test method.

<sup>\*3</sup> When using Wind Baffles [WB-PA3], the minimum operating range is 5° F. Without Wind Baffles, the minimum operating range is 23° F.

<sup>\*4</sup> When connecting PKFY-P06NBMU/P08NHMU,PFFY-P06/08/12NEMU or PFFY-P06/08/12NRMU indoor units, the minimum operating range is 50° F.

<sup>-</sup>BS indicates Seacoast Protection option.



PQRY-P72TLMU-A1

PQRY-P72YLMU-A1

72,000

69,000

13/12

6

20/20

15

24% to 100%

25.4

8 (3.48)

208/230V

460V

Btu/h

Btu/h

Α

Α

GPM

Ft. (psi)

psi (MPa)

ln.

ln.

ln.

PQRY-P\*\*T(Y)LMU-A1

VOLTAGES

Power Source

**Electrical Supply** 

Compressor

Circulating Water

Refrigerant

Dimensions

External Finish

Capacity (Nominal) \*1 **SPECIFICATIONS** 

Cooling

Heating

Type x Quantity

Operating Range

Lubricant Water Flow

Pressure Drop

Max Water

Pressure

Туре

Height

Width

Depth

Rate

MCA

### SPECIFICATIONS: L-GENERATION W-SERIES

PQRY-P120TLMU-A1

PQRY-P120YLMU-A1

120.000

114,000

29/26

13

50/45

20

14% to 100%

25.4

8 (3.48)

MODEL NAMES

3-phase 3-wire 208-230 V ±10% 60 Hz

3-phase 3-wire 460 V ±10% 60 Hz

INVERTER-driven Scroll Hermetic x 1

MEL32

290 (2)

R410A

Galvanized steel sheets

34-11/16

21-11/16

PQRY-P96TLMU-A1

PQRY-P96YLMU-A1

96,000

92,000

19/17

9

30/25

15

18% to 100%

25.4

8 (3.48)

43-5/16

382

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PQRY-P144TLMU-A1

PQRY-P144YLMU-A1

144,000

137,000

35/32

16

60/50

25

19% to 100%

31.7

15 (6.38)

57-1/8

481

NI-6 MAG-1-I-6		Pounds			481		
Net Weight		Pounds		406		508	
Sound Pressure Leve in an Anechoic Roon		dB(A)	46 48 5			4	
	High Pressure Pro	otection		High pressure sensor	, High pressure switch		
Protection Devices	Compressor			Over-heat protection,	Over-current protection		
	Inverter			Over-heat	protection		
Defries weath Direct	Liquid (High Pressure) (Brazed)	ln.	5/8	3/4		7/8	
Dimensions	Gas (Low` Pressure) (Brazed)	ln.	3/4	7	1-1/8		
Indoor Unit	Total Capacity		50 to 150% of water-source unit capacity				
Connectable	Model/Quantity		P06~P96/1~18	P06~P96/1~24	P06~P96/1~30	P06~P96/1~36	
Operating	Cooling	W.B.		Indoor: 5	9 to 75° F		
Temperature Range	Heating	D.B.	Indoor: 50 to 113° F				
Inlet Water	Cooling		50 to 113° F				
Temperature Range	Heating			50 to	113° F		
Efficiency Daking	EER		16.7/20.1	15.2/18.7	13.4/15.6	12.1/15.4	
Efficiency Ratings (Ducted/	IEER		24.2/28.1	25.0/30.4	23.2/29.0	19.5/23.1	
Non-Ducted) *2	СОР		5.51/6.05	5.77/5.93	5.51/5.60	4.90/5.50	

#### Notes:

Cooling | Indoor: 81° F (27° C) D.B./66° F (19° C) W.B.; Water Temperature: 86° F (30° C) Heating | Indoor:: 68° F (20° C) D.B.; Water Temperature: 68° F (20° C).

\*2 Efficiency values based on AHRI 1230 test method.

Specifications are subject to change without notice.

LIMITED WARRANTY | Seven-year compressor and one year parts. See our website for details on specific additional application installation coverage.

<sup>\*1</sup> Rating Conditions:



PQRY-P\*\*T(Y)LMU-A1

## SPECIFICATIONS: L-GENERATION W-SERIES

_	
_	7

3P	ECIFICATIONS			,	MODEL NAMES			
VOLTAGE		208/230V	PQRY-P168TLMU-A1	PQRY-P192TLMU-A1	PQRY-P216TLMU-A1	PQRY-P240TLMU-A1		
.02.7.02		460V	PQRY-P168YLMU-A1	PQRY-P192YLMU-A1	PQRY-P216YLMU-A1	PQRY-P240YLMU-A1		
Power Source				3-phase 3-w	rire 208-230 V ±10% 60 Hz			
rower source				3-phase 3	-wire 460 V ±10% 60 Hz			
Capacity	Cooling	Btu/h	168,000	192,000	216,000 240,000			
(Nominal) *1	Heating	Btu/h	161,000	183,000	206,000	228,000		
	MGA		44/39	54/49	69/63	79/71		
	MCA	А	20	25	31	36		
Electrical Supply			70/70	90/80	110/110	125/125		
	MOP	А	35	40	50	60		
	Type x Quantity			INVERTER-	driven Scroll Hermetic x 1			
Compressor	Operating Range	е	16% to 100%	14% to 100%	13% to 100%	12% to 100%		
	Lubricant				MEL32			
	Water Flow Rate	GPM	31.7	31.7	50.7	50.7		
Circulating Water	Pressure Drop	Ft. (psi)	15 (6.38)	15 (6.38)	15 (6.53)	15 (6.53)		
	Max Water Pressure	psi (MPa)			290 (2)			
Refrigerant	Туре		R410A					
External Finish				Galv	anized steel sheets			
	Height	In.			57-1/8			
Dimensions	Width	ln.			34-11/16			
	Depth	In.			21-11/16			
			48	1	55	58		
Net Weight		Pounds	50	8	57	74		
Sound Pressure Lev in an Anechoic Roo		dB(A)	56 58					
5	High Pressure Pr	otection	High pressure sensor, High pressure switch					
Protection  Devices	Compressor		Over-heat protection, Over-current protection					
Devices	Inverter			Ove	er-heat protection			
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	In.	7/8	3	7/8 (1-1/8 for the part that exceeds 65 m)			
Dimensions	Gas (Low Pressure) (Brazed)	ln.		1-1/8		1-3/8		
	Total Capacity			50 to 150% of	f water-source unit capacity			
Indoor Unit Connectable	Model/Quantity		P06-P96/1-42	P06-P96/1-48	P06-P96/2-50 (Connectable branch pipe number is max. 48.)	P06-P96/2-50 (Connectab branch pipe number is ma 48.)		
Operating	Cooling	W.B.		Inc	door: 59 to 75° F			
Temperature Range	Heating	D.B.		Inc	door: 50 to 113° F			
Inlet Water	Cooling				50 to 113° F			
Temperature					50 to 113° F			
Range			15.1/18.6	11.9/13.5	14.8/17.1	11.5/12.4		
Range	I EER	,						
Range  Efficiency Ratings (Ducted/	EER IEER		22.5/26.1	18.0/21.8	23.6/25.8	18.4/21.7		

Specifications are subject to change without notice.

 $\label{limited} \textbf{LIMITED WARRANTY} \mid \textbf{Seven-year compressor and one year parts.}$ See our website for details on specific additional application installation coverage.

<sup>\*\*</sup>Notes:

\*1 Rating Conditions: Cooling | Indoor: 81° F (27° C) D.B./66° F (19° C) W.B.;

Water Temperature: 86° F (30° C) Heating | Indoor:: 68° F (20° C) D.B.;

Water Temperature: 68° F (20° C).

<sup>\*2</sup> Efficiency values based on AHRI 1230 test method.





SP	ECIFICATIONS		MODEL NAMES							
			PQRY-P144TSLMU-A1 *2	PQRY-P168TSLMU-A1 *2	PQRY-P192TSLMU-A1 *2	PQRY-P216TSLMU-A1	PQRY-P240TSLMU-A1			
VOLTAGES	VOLTAGES		With 2 PQRY-P72TLMU-A1 *3 PQRY-P144YSLMU-A1 *2	With 1 PQRY-P72TLMU-A1 and 1 PQRY-P96TLMU-A1 *3 PQRY-P168YSLMU-A1 *2	With 2 PQRY-P96TLMU-A1 *3 PQRY-P192YSLMU-A1*2	With 1 PQRY-P96TLMU-A1 and 1 PQRY- P120TLMU-A1 *3 PQRY-P216YSLMU-A1 *2	With 2 PQRY-P120TLMU-A1 *3 PQRY-P240YSLMU-A1*2			
		460V	With 2 PQRY-P72YLMU-A1*3	With 1 PQRY-P72YLMU-A1 and 1 PQRY-P96YLMU-A1*3	With 2 PQRY-P96YLMU-A1*3	With  1 PQRY-P96YLMU-A1  and 1 PQRY- P120YLMU-A1*3	With 2 PQRY-P120YLMU-A1 *3			
Dawer Carres				:	208/230V, 3-Phase, 60Hz					
Power Source					460V, 3-Phase, 60Hz					
Capacity	Cooling	Btu/h	144,000	168,000	192,000	216,000	240,000			
(Nominal) *1	Heating	Btu/h	160,000	188,000	215,000	243,000	270,000			
Compressor	Operating Range Type x Quantity		12% to 100% Refer to:	10% to 100% Refer to:	9% to 100% Refer to:	8% to 100% Refer to:	7% to 100% Refer to:			
Circulating Water	Lubricant Water Flow Rate Pressure Drop Max Water Pressure	GPM (L/s) Ft. (psi) psi (MPa)	PQRY-P72TLMU-A1	PQRY-P72TLMU-A1 PQRY-P96TLMU-A1	PQRY-P96TLMU-A1	PQRY-P96TLMU-A1 PQRY-P120TLMU-A1	PQRY-P120TLMU-A1			
Refrigerant	Type									
External Finish	**									
Dimensions	Height Width Depth	In. In. In.	PQRY-P72YLMU-A1	PQRY-P72YLMU-A1 PQRY-P96YLMU-A1	PQRY-P96YLMU-A1	PQRY-P96YLMU-A1 PQRY-P120YLMU-A1	PQRY-P120YLMU-A1			
Net Weight		Pounds								
Sound Pressur Measured in ar Room)	•	dB(A)	49	50	51	55	57			
Doctortion	High Pressure Pr	otection		High pressure sensor, High pressure switch						
Protection Devices	Compressor/Fan			Overh	neat protection/Thermal s	switch				
	Inverter	1		Overh	eat and Overcurrent Prot	ection				
Refrigerant Pipe	Liquid (High Pressure) (Brazed)	ln.		7/8		7/8 (1-1/8 for the par	t that exceeds 65 m)			
Dimensions	Gas (Low Pressure) (Brazed)	ln.		1-1	/8		1-3/8			
	Total Capacity			50 to	150% of outdoor unit cap	pacity				
Indoor Unit Connectable	oor Unit		P06-P96/1-36	P06-P96/1-42	P06-P96/1-48	P06-P96/2-50 (Connectable branch pipe number is max. 48.)	P06-P96/2-50 (Connectable branch pipe number is max. 48.)			
Inlet Water	Cooling	·			50 to 113° F					
Temperature Range	Heating				50 to 113° F					
Efficiency	EER		14.4/16.2	11.2/10.9	13.5/14.9	10.8/11.0	12.5/13.8			
Ratings	IEER		24.4/26.4	19.0/21.2	23.5/25.9	18.8/21.2	22.4/25.7			
(Ducted/ Non-Ducted) *4	СОР		5.77/5.53	4.75/5.23	5.64/5.40	4.52/5.05	5.46/5.32			

#### Notes:

Specifications are subject to change without notice.

 $\textbf{LIMITED WARRANTY} \mid \textbf{Seven-year compressor and one year parts.}$ See our website for details on specific additional application installation coverage.

<sup>\*\*1</sup> Rating Conditions: Cooling | Indoor: 81° F (27° C) D.B./66° F (19° C) W.B.; Water Temperature: 86° F (30° C) Heating | Indoor: 68° F (20° C) D.B.; Water Temperature: 68° F (20°

<sup>\*2</sup> Twinning kit is required for combining two individual outdoor units in the field for PQRY-P-T(Y)SLMU-A1.

<sup>\*3</sup> Each individual outdoor unit requires a separate electrical connection. Reference electricaldata for each individual outdoor unit.

 $<sup>^{\</sup>ast}4$  Efficiency values based on AHRI 1230 test method.



S	PECIFICATIONS		MODEL NAMES				
			PQRY-P288TSLMU-A1 *2	PQRY-P312TSLMU-A1 *2	PQRY-P336TSLMU-A1 *2		
		208/230V	With 2 PQRY-P144TLMU-A1 *3	With 1 PQRY-P168TLMU-A1 and 1 PQRY-P144TLMU-A1 *3	With 2 PQRY-P168TLMU-A1 *3		
VOLTAGES			PQRY-P288YSLMU-A1 *2	PQRY-P312YSLMU-A1 *2	PQRY-P336YSLMU-A1 *2		
		460V	With 2 PQRY-P144YLMU-A1 *3	With 1 PQRY-P168YLMU-A1 and 1 PQRY-P144YLMU-A1 *3	With 2 PQRY-P168YLMU-A1 *3		
			208/230V, 3-Phase, 60Hz				
Power Source				460V, 3-Phase, 60Hz			
	Cooling	Btu/h	288,000	312,000	336,000		
Capacity (Nominal) *1	Heating	Btu/h	275,000	297,000	320,000		
	Operating Range		9% to 100%	9% to 100%	8% to 100%		
Compressor	Type x Quantity		Refer to:	Refer to:	Refer to:		
	Lubricant				PQRY-P168TLMU-A1		
	Water Flow Rate	GPM (L/s)					
	Pressure Drop	Ft. (psi)	PQRY-P144TLMU-A1	PQRY-P168TLMU-A1			
Circulating Water	Max Water Pressure	psi (MPa)		PQRY-P144TLMU-A1			
Refrigerant	Туре						
External Finish							
	Height	ln.	DODY 514 (V// N// A4	PQRY-P168YLMU-A1	DODY 0100// 14/1 44		
Dimensions	Width	ln.	PQRY-P144YLMU-A1	PQRY-P144YLMU-A1	PQRY-P168YLMU-A1		
	Depth	ln.					
Net Weight		Pounds					
Sound Pressure Level ( Measured in an Anecho		dB(A)	57	58	59		
	High Pressure Prote	ection	Higl	h pressure sensor, High pressure sw	ritch		
Protection Devices	Compressor/Fan		(	Overheat protection/Thermal switc	h		
	Inverter		C	Overheat and Overcurrent Protection	n		
Refrigerant Pipe	Liquid (High Pressure) (Brazed)	In.		1-1/8			
Dimensions	Gas (Low Pressure) (Brazed)	ln.		1-3/8			
In death 10th	Total Capacity		Į.	50 to 150% of outdoor unit capacity	у		
Indoor Unit	Madal (O		P06~P96/2~50 (Connectable	P06~P96/2~50 (Connectable	P06~P96/2~50 (Connectable		
Connectable	Model/Quantity		branch pipe number is max. 48.)				
Inlet Water	Cooling			50 to 113° F			
Temperature Range	Heating			50 to 113° F			
Efficiency Ratings	EER		11.4/13.7	11.2/13.0	11.1/12.3		
(Ducted/	IEER		18.5/20.6	17.6/20.4	16.8/20.1		
Non-Ducted) *4	СОР		4.90/5.25	4.78/5.24	4.66/5.23		

#### Notes:

- \*1 Rating Conditions: Cooling | Indoor: 81° F (27° C) D.B./66° F (19° C) W.B.; Water Temperature: 86° F (30° C)
  - Heating | Indoor: 68° F (20° C) D.B.; Water Temperature: 68° F (20° C).
- \*2 Twinning kit is required for combining two individual outdoor units in the field for PQRY-P-T(Y)SLMU-A1.
- \*3 Each individual outdoor unit requires a separate electrical connection. Reference electrical data for each individual outdoor unit.
- \*4 Efficiency values based on AHRI 1230 test method.

 ${\bf Specifications\ are\ subject\ to\ change\ without\ notice.}$ 

LIMITED WARRANTY | Seven-year compressor and one year parts. See our website for details on specific additional application installation coverage.





## PQHY-P\*\*T(Y)LMU-A1

SPE	CIFICATIONS		MODEL NAMES					
		208/230V	PQHY-P72TLMU-A1	PQHY-P96TLMU-A1	PQHY-P120TLMU-A1	PQHY-P144TLMU-A1		
VOLTAGE		460V	PQHY-P72YLMU-A1	PQHY-P96YLMU-A1	PQHY-P120YLMU-A1	PQHY-P144YLMU-A1		
			208/230V, 3-Phase, 60Hz					
Power Source			460V, 3-Phase, 60Hz					
Capacity	Cooling	Btu/h	72,000	96,000	120,000	144,000		
(Nominal) *1	Heating	Btu/h	69,000	114,000	137,000			
			13/12	19/17	29/26	35/32		
	MCA	А	6	9	13	16		
Electrical Supply			20/20	30/25	50/45	60/50		
	MOP	А	15	15	20	25		
	Type x Quantity	I.		INVERTER-driven	Scroll Hermetic x 1			
Compressor	Operating Range	)	24% to 100%	18% to 100%	14% to 100%	19% to 100%		
	Lubricant			ME	L32			
	Water Flow	CDM (L/s)	25.4	25.4	25.4	71.7		
	Rate	GPM (L/s)	25.4	25.4	25.4	31.7		
Circulating Water	Pressure Drop	Ft. (psi)	8 (3.48)	8 (3.48)	8 (3.48)	15 (6.38)		
	Max Water Pressure	psi (MPa)						
Refrigerant	Туре			R4	10A			
External Finish				Galvanized	steel sheets			
Height In.				43-5/16		57-1/8		
-	Width	ln.	34-11/16					
	Depth	ln.	21-11/16					
			375 474					
Net Weight		Pounds	400 501					
Sound Pressure Leve an Anechoic Room)	l (As Measured in	dB(A)	46	48		54		
	High Pressure Pr	otection	High pressure sensor, High pressure switch					
Protection Devices	Compressor		Over-heat protection, Over-current protection					
	Inverter			Over-heat	protection			
Refrigerant Pipe	Liquid (High Pressure) (Brazed)	ln.	3/8	3/8 (1/2, total l	ength >= 90 m)	1/2		
Dimensions	Gas (Low Pressure) (Brazed)	In.	3/4	7,	/8	1-1/8		
Indoor Unit	Total Capacity			50 to 150% of water	-source unit capacity			
Connectable	Model/Quantity		P06~P96/1~15	P06~P96/1~20	P06~P96/1~26	P06~P96/1~31		
Operating	Cooling	W.B.		Indoor: 5	9 to 75° F			
Temperature Range	Heating	D.B.		Indoor: 50	0 to 113° F			
Inlet Water	Cooling	1		50 to	113° F			
Temperature Range	Heating			50 to	113° F			
	EER		17.4/20.7	15.3/19.4	13.5/15.9	12.1/15.6		
Efficiency Ratings (Ducted/	IEER		24.2/28.1	25.0/30.4	23.2/29.0	19.5/23.1		
Non-Ducted) *2	СОР		5.62/6.15	5.80/6.02	5.55/5.66	4.92/5.56		

#### Notes:

\*2 Efficiency values based on AHRI 1230 test method.

#### Specifications are subject to change without notice.

LIMITED WARRANTY | Seven-year compressor and one year parts. See our website for details on specific additional application installation coverage.

<sup>\*\*</sup>I Rating Conditions: Cooling | Indoor: 81° F (27° C) D.B./66° F (19° C) W.B.; Water Temperature: 86° F (30° C) Heating | Indoor: 68° F (20° C) D.B.; Water Temperature: 68° F (20° C).





## SPECIFICATIONS: L-GENERATION W-SERIES

SP	PECIFICATIONS		MODEL NAMES					
		208/230V	PQHY-P168TLMU-A1	PQHY-P192TLMU-A1	PQHY-P216TLMU-A1	PQHY-P240TLMU-A		
VOLTAGE		460V	PQHY-P168YLMU-A1	PQHY-P192YLMU-A1	PQHY-P216YLMU-A1	PQHY-P240YLMU-A		
				208/230V, 3	-Phase, 60Hz			
Power Source				460V, 3-Pl	hase, 60Hz			
Capacity	Cooling	Btu/h	168,000	192,000	216,000	240,000		
(Nominal) *1	Heating	Btu/h	161,000	183,000	206,000	228,000		
			44/39	54/49	69/63	79/71		
	MCA	А	20	25	31	36		
Electrical Supply			70/70	90/80	110/110	125/125		
	MOP	A	35	40	50	60		
	Type x Quantity			INVERTER-driven	Scroll Hermetic x 1	I		
Compressor	Operating Range		16% to 100%	14% to 100%	13% to 100%	12% to 100%		
	Lubricant			ME	L32	I		
	Water Flow Rate	GPM (L/s)	31.7	31.7	50.7	50.7		
Circulating Water	Pressure Drop	Ft. (psi)	15 (6.38)	15 (6.38)	15 (6.53)	15 (6.53)		
Circulating water	Max Water Pressure	psi (MPa)		290	) (2)			
Refrigerant	Туре			R4	10A			
External Finish				Galvanized	steel sheets			
Height In.				57-	-1/8			
Dimensions \	Width	In.	34-11/16					
	Depth	In.		21-1	1/16			
	•		4		5	52		
Net Weight		Pounds	501			67		
Sound Pressure Leve (As Measured in an A		dB(A)	56 58					
	High Pressure Pro	tection	High pressure sensor, High pressure switch					
Protection Devices	Compressor			Over-heat protection, (	Over-current protection			
	Inverter			Over-heat	protection			
Refrigerant Pipe	Liquid (High Pressure) (Brazed)	In.		5,	/8			
Dimensions	Gas (Low Pressure) (Brazed)	In.		1-1	/8			
Indoor Unit	Total Capacity			50 to 150% of water	-source unit capacity			
Connectable	Model/Quantity		P06~P96/1~36	P06-P96/1-41	P06~P96/2~46	P06~P96/2~50		
Operating	Cooling	W.B.		Indoor: 5	9 to 75° F	I		
Temperature Range	Heating	D.B.		Indoor: 50	O to 113° F			
Inlet Water	Cooling			50 to	113° F			
Temperature Range	Heating			50 to	113° F			
	EER		15.2/19.0	12.0/13.6	15.0/17.3	11.5/12.5		
Efficiency Ratings (Ducted/	IEER		22.5/26.1	18.0/21.8	23.6/25.8	18.4/21.7		
Non-Ducted) *2	СОР		5.32/6.01	4.76/5.43	5.61/5.72	4.62/5.19		

Specifications are subject to change without notice.

 $\textbf{LIMITED WARRANTY} \mid \textbf{Seven-year compressor and one year parts.}$ See our website for details on specific additional application installation coverage.

<sup>\*\*1</sup> Rating Conditions:

Cooling | Indoor: 81° F (27° C) D.B./66° F (19° C) W.B.; Water Temperature:

86° F (30° C) Heating | Indoor:: 68° F (20° C) D.B.; Water Temperature:

68° F (20° C).

<sup>\*2</sup> Efficiency values based on AHRI 1230 test method.





## SPECIFICATIONS: L-GENERATION W-SERIES

SPEC	IFICATIONS				MODEL NAMES				
			PQHY-P144TSLMU-A1 *2	PQHY-P168TSLMU-A1 *2	PQHY-P192TSLMU-A1 *2	PQHY-P216TSLMU-A1 *2	PQRY-P240TSLMU-A1 *2		
		208/230V	With 2 PQHY-P72TLMU-A1*3	With 1 PQHY-P72TLMU-A1 and 1 PQHY-P96TLMU-A1*3	With 2 PQHY-P96TLMU-A1 *3	With 1 PQHY-P96TLMU-A1 and 1 PQHY-P120TLMU-A1 *3	With 2 PQHY-P120TLMU-A1 *3		
VOLTAGE			PQHY-P144YSLMU-A1 *2	PQHY-P168YSLMU-A1 *2	PQHY-P192YSLMU-A1 *2	PQHY-P216YSLMU-A1 *2	PQHY-P240YSLMU-A1		
		460V	With 2 PQHY-P72YLMU-A1*3	With 1 PQHY-P72YLMU-A1 and 1 PQHY-P96YLMU-A1 *3	With 2 PQHY-P96YLMU-A1 *3	With 1 PQHY-P96YLMU-A1 and 1 PQHY- P120YLMU-A1 *3	With 2 PQHY-P120YLMU-A1 *3		
Power Source					208/230V, 3-Phase, 60H:				
Capacity	Cooling	Btu/h	144,000	168,000	192,000	216,000	240,000		
(Nominal)	Heating	Btu/h	160,000	188,000	215,000	243,000	270,000		
'	Operating Rar		12% to 100%	10% to 100%	9% to 100%	8% to 100%	7% to 100%		
Compressor	Type x Quanti			Refer to:	Refer to:		Refer to:		
	Lubricant								
	Water Flow Rate	GPM (L/s)	PQHY-P72TLMU-A1	PQHY-P72TLMU-A1 PQHY-P96TLMU-A1	PQHY-P96TLMU-A1	PQHY-P96TLMU-A1 PQHY-P120TLMU-A1	PQHY-P120TLMU-A1		
Circulating Water	Pressure Drop	Ft. (psi)		T GITT T SOTE TO AL		1 4111 1 120121 10 711			
	Max Water Pressure	psi (MPa)							
Refrigerant	Туре								
External Finish	Height	ln.	PQHY-P72YLMU-A1	PQHY-P72YLMU-A1 PQHY-P96YLMU-A1	PQHY-P96YLMU-A1	PQRY-P96YLMU-A1 PQRY-P120YLMU-A1	PQHY-P120YLMU-A1		
Dimensions	Width	ln.		Pain-Paoreno-Ar		FQRT-FIZOTEMO-AT			
Net Weight	Depth	In. Pounds							
Sound Pressure Le Measured in an An		dB(A)	49	50	51	55	57		
	High Pressure	Protection	High pressure sensor, High pressure switch						
Protection Devices	Compressor/F	an	Overheat protection/Thermal switch						
	Inverter		Overheat and Overcurrent Protection						
Refrigerant Pipe	Liquid (High Pressure) (Brazed)	ln.	1/2		5,	/8			
Dimensions	Gas (Low Pressure) (Brazed)	ln.		1-1/8					
Indoor Unit	Total Capacity	,		50 to	150% of outdoor unit ca	pacity			
Connectable	Model/Quanti	ty	P06~P96/1~31	P06-P96/1-36	P06~P96/1~41	P06~P96/2~46	P06~P96/2~50		
Inlet Water	Cooling				50 to 113° F				
Temperature Range	Heating				50 to 113° F				
	EER		14.5/16.4	11.3/10.9	13.6/15.0	10.8/11.0	12.5/13.9		
Efficiency Ratings (Ducted/ Non-Ducted) *4	IEER		24.4/26.4	19.0/21.2	23.5/25.9	18.8/21.2	22.4/25.7		
Ĺ	СОР		5.80/5.57	4.77/5.26	5.68/5.43	4.54/5.08	5.49/5.35		

#### Notes:

- Cooling | Indoor: 81° F (27° C) D.B./66° F (19° C) W.B.; Water Temperature: 86° F (30° C) Heating | Indoor: 68° F (20° C) D.B.; Water Temperature: 68° F (20° C).
- \*2 Twinning kit is required for combining two individual outdoor units in the field for PQRY-P-T(Y)SLMU-A1.
- \*3 Each individual outdoor unit requires a separate electrical connection.
- Reference electrical data for each individual outdoor unit.

  \*4 Efficiency values based on AHRI 1230 test method.

#### Specifications are subject to change without notice.

LIMITED WARRANTY | Seven-year compressor and one year parts. See our website for details on specific additional application installation coverage.





### PQHY-P\*\*T(Y)SLMU-A1

SPE	CIFICATIONS			MODEL	NAMES		
			PQHY-P288TSLMU-A1 *2	PQHY-P312TSLMU-A1 *2	PQHY-P336TSLMU-A1 *2	PQHY-P360TSLMU-A1 *2	
NOLTAGES		208/230V	With 2 PQHY-P144TLMU-A1 *3	With 1 PQHY-P144TLMU-A1 and 1 PQHY-P168TLMU-A1*3	With 2 PQHY-P168TLMU-A1 *3	With 1 PQHY-P168TLMU-A1 and 1 PQHY-P192TLMU-A1 *3	
VOLTAGES			PQHY-P288YSLMU-A1 *2	PQHY-P312YSLMU-A1 *2	PQHY-P336YSLMU-A1 *2	PQHY-P360YSLMU-A1*2	
		460V	With 2 PQHY-P144YLMU-A1 *3	With 1 PQHY-P144YLMU-A1 and 1 PQHY-P168YLMU-A1 *3	With 2 PQHY-P168YLMU-A1 *3	With 1 PQHY-P168YLMU-A1 and PQHY-P192YLMU-A1 *3	
D				208/230V, 3	-Phase, 60Hz		
Power Source				460V, 3-PI	hase, 60Hz		
Capacity	Cooling	Btu/h	288,000	312,000	336,000	360,000	
(Nominal) *1	Heating	Btu/h	323,000	350,000	378,000	405,000	
	Operating Rang	je	9% to 100%	9% to 100%	8% to 100%	8% to 100%	
Compressor	Type x Quantity		Refer to:	Refer to:	Refer to:	Refer to:	
	Lubricant						
	Water Flow Rate	GPM (L/s)	PQHY-P144TLMU-A1	PQHY-P144TLMU-A1 PQHY-P168TLMU-A1	PQHY-P168TLMU-A1	PQHY-P168TLMU-A1 PQHY-P192TLMU-A1	
Circulating Water	Pressure Drop	Ft. (psi)					
, <b>y</b>	Max Water Pressure	psi (MPa)					
Refrigerant	Туре						
External Finish							
	Height	ln.	PQHY-P144YLMU-A1	PQHY-P144YLMU-A1	PQHY-P168YLMU-A1	PQRY-P168YLMU-A1	
Dimensions	Width	In.	PQHY-PI44YLMU-AI	PQHY-P168YLMU-A1	PQH Y-P168 Y LIMU-A1	PQRY-P192YLMU-A1	
	Depth	ln.					
Net Weight		Pounds					
Sound Pressure Lev Measured in an Ane	echoic Room)	dB(A)	57	58	59	60	
	High Pressure P	rotection		High pressure sensor,	High pressure switch		
Protection Devices	Compressor/Fa	n		Overheat protecti	on/Thermal switch		
Devices	Inverter			Overheat and Ove	rcurrent Protection		
Refrigerant Pipe	Liquid (High Pressure) (Brazed)	In.		3,	/4		
Dimensions	Gas (Low Pressure) (Brazed)	In.	1-3	5/8	1-:	5/8	
Indoor Unit	Total Capacity			50 to 150% of out	door unit capacity		
Connectable Model/Quantity		,	P06~P96/2~50	P06~P96/2~50	P06~P96/2~50	P06~P96/2~50	
Inlet Water	Cooling			50 to	113° F		
Temperature Range	Heating			50 to	113° F		
Efficiency Ratings	EER		11.4/13.8	11.2/13.0	11.1/12.3	11.2/12.1	
(Ducted/	IEER		18.5/20.6	17.6/20.4	16.8/20.1	17.5/20.3	
Non-Ducted) *4	СОР		4.92/5.27	4.80/5.26	4.67/5.25	4.64/5.14	

#### Notes:

\*1 Rating Conditions:

Cooling | Indoor: 81° F (27° C) D.B./66° F (19° C) W.B.; Water Temperature: 86° F (30° C)
Heating | Indoor: 68° F (20° C) D.B.; Water Temperature: 68° F (20° C).

\*4 Efficiency values based on AHRI 1230 test method.

Specifications are subject to change without notice.

LIMITED WARRANTY | Seven-year compressor and one year parts. See our website for details on specific additional application installation coverage.

<sup>\*2</sup> Twinning kit is required for combining two individual outdoor units in the field for PQRY-P-T(Y)SLMU-A1.

<sup>\*3</sup> Each individual outdoor unit requires a separate electrical connection.
Reference electrical data for each individual outdoor unit.



### SPECIFICATIONS: PWFY \(\neg \) HYDRONIC HEAT EXCHANGER

### PWFY-P\*\*NMU-E(E2)-AU/BU

Model Name				PWFY-P36NMU-E2-AU	PWFY-P72NMU-E2-AU	PWFY-P36NMU-E-BU
Power Source					208/230V, 1-phase, 60Hz	•
Cooling Capacit	y *1		Btu/h	36,200	72,000	-
Heating Capacit	y *1		Btu/h	39,900	79,800	39,900
Power	Coolir	ng	kW	0.025	-0.028	N/A
Consumption	Heatir	eating kW		0.025	-0.028	2.48
Current	Coolir	Cooling A		0.145	- 0.150	N/A
Current	Heatir	ng	А	0.145	- 0.150	12.30 /11.12
External Finish	External Finish				Galvanized-steel Sheet	
	Heigh	t	In.		31-1/2	
Dimensions	Width	<u> </u>	ln.		17-3/4	
	Depth		In.		11-13/16	
Net Weight	Unit		Pounds	73	80	133
				23° F to 115° F D.B. (F	PURY/PUHY/PURY-HP)	
Operating Outdoor			23° F to 109° F	-		
Temperature Range			-4 F to 90 F W.	B. (PURY/PUHY)	4054-0005140	
		Heating		-13 F to 60 F W.B. (	PURY-HP/PUHY-HP)	-4 ° F to 90° F W.B.
Circulating Water	er Operat	ion	GPM	4.8 - 9.4 (18-36)	7.9 – 18.9 (30-72)	2.6 - 9.6 (10-36)
Volume Range			(L/m)	4.0 5.4 (10 50)	7.5 10.5 (30 72)	2.0 3.0 (10 30)
Circulating Wate	er Design	Pressure	MPa (psi)			
Water Piping	Inlet		In.	3/4 FPT	1 FPT	3/4 FPT
Dimensions	Outlet	t	ln.	3/4 FPT	1 FPT	3/4 FPT
Refrigerant		l (High ure) (Brazed)	In.	3/8	3/8	3/8
Pipe Dimensions	Gas (l (Braze	Low Pressure)	In.	5/8	3/4	5/8
Drainpipe Dimer	nsions (O	.D.)	ln.		1-1/4	
Sound Pressure	Levels		dB(A)	2	29	44
					T/Y(S)KMU (-BS) T/Y(S)KMU (-BS)	
				PURY-HP72~192 PUHY-P72~360	PURY-P72~288T/Y(S)KMU (-BS)	
Connoctable	+doc= ! !	ite			PURY-HP72~192T/Y(S)KMU (-BS)	
Connectable Outdoor Units				PURY-P72-336T/	PURY-P72-336T/Y(S)LMU-A (-BS	
					Y(S)LMU-A1 (-BS)	PQRY-P72-336T/Y(S)LMU-A1 (-BS
				PUHY-P72-360T/ PQHY-P72-360T/		

\*1 Nominal heating conditions (PWFY conditions are indicated in the parentheses).

#### (W-Series)

Outdoor Temp.: 47° F D.B./43° F W.B. (8.3° C D.B./6.1° C W.B.) Pipe length: 25 ft (7.6 m) Level difference: 0 ft (0 m)

(Inlet water Temp.:  $149^{\circ}$  F (65°C) Water flow rate: 9.4 gpm (2.15 m $^{3}$ /h))

#### (WR2-Series)

Circulating water Temp.: 70° F (21.1° C) Pipe length: 25 ft (7.6 m) Level difference: 0 ft (0 m) (Inlet water Temp.: 149° F (65° C) Water flow rate 9.2 gpm (2.15 m³/h))

Note: Consult Application Note 2014 – Designing with PWFY for additional

Note: The design water pressure drop and flow. Note that the pressure drop

Specifications are subject to change without notice.

LIMITED WARRANTY | Seven-year compressor and one year parts. Extended warranty of up to 10 years is available. See our website for details on specific additional application installation coverage.





## PKFY-P\*\*N(L,K)MU

Model Name			PK- FY-P04NLMU-E	PK- FY-P06NLMU-E	PK- FY-P08NLMU-E	PK- FY-P12NLMU-E	PK- FY-P15NLMU-E	PK- FY-P18NLMU-E	PKFY-P24NK- MU-E2.TH	PKFY-P30NK- MU-E2.TH	
Power Source				208/230V, 1-Phase, 60Hz							
Cooling Capacit	у	Btu/h *1	4,000	6,000	8,000	12,000	15,000	18,000	24,000	30,000	
Heating Capacit	У	Btu/h *2	4,500	6,700	9,000	13,500	17,000	20,000	27,000	34,000	
Power	Cooling	kW	Ο.	02	0.03	0.	04	0.05	7	0	
Consumption	Heating	kW	0.	01	0.02	0.	03	0.04	7	0	
C	Cooling	А	О.	20	0.25	0.	35	0.4	0.	50	
Current	Heating	А	0.	15	0.20	0.	30	0.45	0.	50	
External Finish	Munsell No.				Plastic, MUNSELL	(0.7PB 9.2/0.4)			Plastic, MUNSEI	L (1.0Y 9.2/0.2)	
	Height	In.			11-25/	/32			14-	3/8	
Dimensions	Width	ln.		30-7/16 35-3/8					46-1/16		
	Depth	ln.			9-11/	'32			11-5/8		
Net Weight	Unit	Pounds	23.6		24.5		28	3.4	4	6	
Heat Exchanger				Cross Fin (Aluminum Plate Fin and Copper Tube)							
	Type x Qua	ntity	Line Flow Fan x 1								
Fan	Airflow Rate	CFM	117-124-134-148	141-155-173-191	141-162-191-237	152-191-244- 297	222-261-304- 353	240-293-360- 438	570-920	710 - 920	
	Motor Type		Direct-driven DC Motor								
Air Filter						Polypropylene	Honeycomb				
Refrigerant	Liquid (High Pressure) (Flare)	In.		1/4					3/8		
Pipe Dimensions	Gas (Low Pressure) (Flare)	In.	1/2						5/8		
Drain Pipe Dime	nsion (I.D.)	In.				5/8	1				
Sound Pressure	Levels	dB(A)	22-24-26-28	22-26-29-31	22-27-31-35	24-31-37-41	29-34-37-40	31-36-41-46	39-49	43 - 49	

#### Notes:

 ${\it Cooling / Heating \ capacity \ indicated \ at \ the \ maximum \ value \ at \ operation \ under \ the \ following \ conditions:}$ 

- \*1. Cooling | Indoor: 80° F (27° C) DB / 67° F (19° C) WB, Outdoor 95° F (35° C) DB
- $^*2$  Heating | Indoor: 70° F (21° C) DB, Outdoor 47° F (8° C) DB / 43° F (6° C) WB

### $\label{thm:continuous} \textbf{Specifications are subject to change without notice.}$

LIMITED WARRANTY | Seven-year compressor and one year parts. Extended warranty of up to 10 years is available. See our website for details on specific additional application installation coverage.



PLFY-EP**N	IEMU-	-Е						CEI				ONS: PLFY
Model Name				PLFY-EP	06NEMU-E	PLFY-EP08	NEMU-E	PLFY-EP12NE	EMU-E	PLFY-EP15NEMI	U-E	PLFY-EP18NEMU-E
Power Source						ı	2	1 208/230V, 1-Pha	ase, 60H	z	ļ	
Cooling Capacity			Btu/h *1	6,	000	8,00	00	12,000	ı	15,000		18,000
Heating Capacity			Btu/h *1	6,	700	9,00	00	13,500		17,000		20,000
5 6 .:	Cooling	9	W		20	30		30		30		40
Power Consumption	Heating	9	W		20	20		20		20		40
	Cooling	9	А	(	0.19	0.3	1	0.31		0.31		0.43
Current	Heating	9	А	(	0.14	0.20	6	0.26		0.26		0.38
External Finish Color (	(Munsell N	No.)					١	MUNSELL (6.4)	′ 8.9/0.4	)		
	Height		ln.	10	-3/16	10-3/	′16	10-3/16	5	10-3/16		11-3/4
Dimensions	Width		ln.					33-3/32	2			
	Depth		ln.					33-3/32	2			
Net Weight *2	Unit/Pa	anel	Pounds	46	5 / 11	46 /	11	46 / 11		46 / 11		55 / 11
Heat Exchanger					Cross Fin (Aluminum Plate Fin and Copper Tube)							
	Туре х	Quantity			Turbo Fan x 1							
Fan	Airflow	Rate *3	CFM		300 - 424 - 459 - 494		O - 565 O	494 - 530 - - 600	565	530 - 547 - 56 - 600	55	636 - 671 - 742 - 8
	Motor -	Туре						DC Moto	or			
	Motor (	Output	W		50	50		50		50		120
Air Filter						PP	honeycom	nb (long life filte	er, anti-b	acterial type)		
Refrigerant Pipe Dimensions	Liquid Pressur (Flare)		ln.					1/4				
Pipe Dimensions	Gas (Lo sure) (F	ow Pres- Flare)	ln.					1/2				
Drain Pipe Dimension	(O.D.)		ln.					1-1/4				
Sound Pressure Levels (As Measured in an Anechoic Room)*3	Low-Mi High	id1-Mid2-	dB(A)	19 - 23	- 25 - 27	25 - 27		28 - 30 - 32 - 34				
Model Name					PLFY-EP2	24NEMU-E	PLFY-E	P30NEMU-E	PLFY	-EP36NEMU-E	Р	LFY-EP48NEMU-E
Power Source								208/230V,	1-Phase	, 60Hz		
Cooling Capacity				Btu/h *1	24,0	000	30,000 36,000 4		48,000			
Heating Capacity				Btu/h *1	27,0	27,000 34,000 40,000		54,000				
		Cooling		W	4	-0		40		70		110
Power Consumption		Heating		W	4	-0		40		70		110
•		Cooling		А	0.	43		0.45		0.73		1.01
Current		Heating		А	0.	38		0.40		0.68		0.96

Model Name			PLFY-EP24NEMU-E	PLFY-EP30NEMU-E	PLFY-EP36NEMU-E	PLFY-EP48NEMU-E			
Power Source				208/230V,	1-Phase, 60Hz				
Cooling Capacity		Btu/h *1	24,000	30,000	36,000	48,000			
Heating Capacity		Btu/h *1	27,000	34,000	40,000	54,000			
Power Consumption	Cooling	W	40	40	70	110			
Power Consumption	Heating W		40	40	70	110			
Current	Cooling	А	0.43	0.45	0.73	1.01			
Current	Heating	А	0.38	0.40	0.68	0.96			
External Finish Color (Munsell	No.)			MUNSELL	(6.4Y 8.9/0.4)				
	Height	In.		1	1-3/4				
Dimensions	Width	In.		33	3-3/32				
	Depth	In.		33	3-3/32				
Net Weight *2	Unit/Panel	Pounds		55 / 11					
Heat Exchanger				Cross Fin (Aluminum F	Plate Fin and Copper Tube)	1			
	Type x Quantity		Turbo Fan x 1						
Fan	Airflow Rate *3	CFM	636 - 671 - 742 - 812	636 - 706 - 777 - 812	777 - 883 - 989 - 1,095	777 - 953 - 1,095 - 1,236			
Fan	Motor Type			DC	Motor				
	Motor Output	W			120				
Air Filter				PP honeycomb (long lit	fe filter, anti-bacterial type	)			
Defairement Direction	Liquid (High Pressure) (Flare)	In.			3/8				
Refrigerant Pipe Dimensions	Gas (Low Pressure) (Flare)	In.	n. 5/8						
Drain Pipe Dimension (O.D.)		In.			1-1/4				
Sound Pressure Levels (As Measured in an Anechoic Room)*3	Low-Mid1-Mid2- High	dB(A)	28 - 30 - 32 - 34	28 - 31 - 33 - 35	35 - 37 - 39 - 41	36 - 39 - 42 - 45			

<sup>\*\*</sup>Notes:

\*1 Cooling/Heating capacity indicates the maximum value at operation under the following conditions: Cooling | Indoor: 80° F (26.7° C) DB/67° F (19.4° C) WB; Outdoor: 95° F (35° C) DB. Heating | Indoor: 70° F (21° C) DB; Outdoor: 47° F (8° C) DB/43° F (6° C) WB.

\*2 Net weight is shown for unit/grille.

<sup>\*3</sup> Airflow rate/sound pressure levels are at (Low-Mid1-Mid2-High). Ventilation Air: Providing sufficient ventilation air is an important part of every building design ASHRAE Standard 62 provides the minimum ventilation air requirements. Also check local codes.

LIMITED WARRANTY | Seven-year warranty on compressor. One-year warranty on parts.

See our website for details on specific additional application installation coverage.



## SPECIFICATIONS: PLFY **CEILING CASSETTE INDOOR UNIT**

## PLFY-P\*\*NFMU-E

Model Name			PLFY-P05NFMU-E	PLFY-P08NFMU	PLFY-P12NFMU	PLFY-P15NFMU	PLFY-P18NFMU-E		
Power Source				2	08/230V, 1-phase, 60Hz		'		
Cooling Capacity		Btu/h *1	5,000	8,000	12,000	15,000	18,000		
Heating Capacity		Btu/h *1	5,600	9,000	13,500	17,000	20,000		
Daniel Camanantian	Cooling	W	20	20	20	30	40		
Power Consumption	Heating	W	20	20	20	30	40		
Current	Cooling	А	0.19	0.22	0.23	0.28	0.40		
Current	Heating	А	0.14	0.17	0.18	0.23	0.35		
External Finish (Munsell	No.)			Gr	rille: White (6.4Y 8.9/0.4)	)			
	Height	In.			8-3/16				
Dimensions	Width	In.			22-7/16				
	Depth	In.	22-7/16						
Net Weight *2	Unit/Panel	Pounds	28.9/5.3	28.9/5.3		31.3/5.3			
Heat Exchanger				Cross Fin (Al	uminum Plate Fin and Co	pper Tube)			
	Type x Quantity				Turbo Fan x 1				
Fan	Airflow Rate *3	CFM	230-265-280	230-280-315	245-280-335	265-315-390	315-390-460		
	Motor Type			Sin	gle-phase Induction Moto	or			
Air Filter				Po	olypropylene Honeycomb	)			
Refrigerant Pipe	Liquid (High Pressure) (Flare)	In.			1/4				
Dimensions	Gas (Low Pressure) (Flare)	In.			1/2				
Condensate Lift Mechan	ism (Standard)	In.	19-11/16						
Drain Pipe Dimension (C	).D.)	In.	1-1/4						
Sound Pressure Levels (As Measured in an Anechoic Room) *3	(Low-Mid- High)	dB(A)	26-28-30	26-30-33	26-30-34	28-33-39	33-39-43		

#### Notes:

\*\*1 Cooling/Heating capacity indicates the maximum value at operation under the following conditions: Cooling | Indoor: 80° F (27° C) D.B./67°F (19° C) W.B.;

Outdoor: 95°F (35° C) D.B. Heating | Indoor: 70° F (21° C) D.B.; Outdoor: 47° F (8° C) D.B./43°F (6° C) W.B.

\*2 Net weight is shown for unit/grille.

\*3 Airflow rate/sound pressure levels are at (Low-Mid-High).

Ventilation Air: Providing sufficient ventilation air is an important part of every building design. ASHRAE Standard 62 provides the minimum ventilation air requirements. Also check local codes.

Specifications are subject to change without notice.

LIMITED WARRANTY | Seven-year compressor and one year parts. Extended warranty of up to 10 years is available. See our website for details on specific additional application installation coverage.



## SPECIFICATIONS: PMFY \(\neg \) **CEILING CASSETTE INDOOR UNIT**

## PMFY-P\*\*NBMU-ER5

Model Name			PMFY-P06NBMU-ER5	PMFY-P08NBMU-ER5	PMFY-P12NBMU-ER5	PMFY-P15NBMU-ER5	
Power Source				208/230V,	1-phase, 60Hz		
Cooling Capacity		Btu/h *1	6,000	8,000	12,000	15,000	
Heating Capacity		Btu/h *1	6,700	9,000	13,500	17,000	
Power Consumption	Cooling W			40		50	
Power Consumption	Heating	W		40		50	
Current	Cooling	А	0.	20	0.21	0.26	
Current	Heating	А	0.	20	0.21	0.26	
External Finish Color (Munsell N	No.)			Grille: 6	.4Y 8.9/0.4		
	Height	In.		9	-1/16		
Dimensions	Width	In.		31-	-31/32		
	Depth	In.	15-9/16				
Net Weight	Unit	Pounds	31				
Heat Exchanger			Cross Fin				
	Type x Quantity		Line flow fan x 1				
Fan	Airflow Rate *2	CFM	230-254-283-307	258-283-304-328	258 - 283 - 304 - 328	272 - 307 - 343 - 378	
	Motor Type			DC Brus	hless Motor		
Air Filter				Polypropyle	ne Honeycomb		
	Liquid (High Pressure) (Flare)	In.			1/4		
Refrigerant Pipe Dimensions	Refrigerant Pipe Dimensions Gas (Low Pressure) (Flare) In.		1/2				
Condensate Lift Mechanism (St	andard)	ln.	23-5/8				
Drain Pipe Dimension (O.D.)	Drain Pipe Dimension (O.D.) In.			1			
Sound Pressure Levels (As Measured in an Anechoic Room) *2	(Low-Mid1-Mid2- High)	dB(A)	27 - 30 - 33 - 35	32 - 34 - 36 - 37	32 - 34 - 36 - 37	33 - 35 - 37 - 39	

#### Notes:

\*\*1 Cooling/Heating capacity indicates the maximum value at operation under the following conditions: Cooling | Indoor: 80° F (27° C) D.B./67° F (19° C) W.B.;

Outdoor: 95° F (35° C) D.B. Heating | Indoor: 70° F (21° C) D.B.; Outdoor: 47° F (8° C) DB/43° F (6° C) W.B.

\*2 Airflow rate/sound levels are at (Low-Mid1-Mid2-High).

Ventilation Air: Providing sufficient ventilation air is an important part of every building design. ASHRAE standard 62 provides the minimum ventilation air requirements. Also check local codes.

Specifications are subject to change without notice.

LIMITED WARRANTY | Seven-year compressor and one year parts. Extended warranty of up to 10 years is available. See our website for details on specific additional application installation coverage.



## SPECIFICATIONS: PCFY **CEILING-SUSPENDED INDOOR UNIT**

### PCFY-P\*\*NKMU-ER1

Model Name			PCFY-P15NKMU-ER1	PCFY-P24NKMU-ER1	PCFY-P30NKMU-ER1	PCFY-P36NKMU-ER1
Power Source				208/230V,	l Phase, 60Hz	
Cooling Capacity		Btu/h *1	15,000	24,000	30,000	36,000
Heating Capacity		Btu/h *1	17,000	27,000	34,000	40,000
Power Consump-	Cooling	W	30	40	90	110
tion	Heating	W	30	40	90	110
Comment	Cooling	А	0.35	0.41	0.83	0.97
Current	Heating	А	0.35	0.41	0.83	0.97
External Finish	Munsell No.			6.4Y	8.9/0.4	
	Height	ln.		9-	1/16	
Dimensions	Width	ln.	37-13/16	50-3/8	6	53
	Depth	ln.		26	-3/4	
Net Weight	Unit	Pounds	53	71	79	84
Heat Exchanger				Cross Fin (Aluminum Pl	ate Fin and Copper Tube)	
	Type x quantity		Sirocco Fan x 2	Sirocco Fan x 3	Sirocco	Fan x 4
Fan	Airflow Rate *2	CFM	353 - 388 - 424 - 459	494-530-565-636	703-777-883-989	742 - 847 - 953 - 1,095
	Motor Type			Direct - driv	en DC Motor	
Air Filter				Polypropyler	ne Honeycomb	
Refrigerant Pipe	Liquid (High Pressure) (Flare)	ln.	1/4		3/8	
Dimensions	Gas (Low Pressure) (Flare)	In.	1/2		5/8	
Drain Pipe Dimensio	on (O.D.)	ln.			1	
Sound Pressure Levels *2	Lo-Mid1-Mid2-Hi	dB(A)	29-32-34-36	31-33-35-37	34 - 37 - 40 - 43	36-39-42-44

#### Note:

\*1 Cooling/Heating Capacity indicates the maximum value at operation under the following conditions: Cooling | Indoor: 80° F (27° C) D.B./67° F (19° C) W.B.; Outdoor 95° F (35° C) D.B. Heating | Indoor: 70° F (21° C) D.B.; Outdoor: 45° F (7° C) D.B./43° F (6° C) W.B.

\*2 Airflow rate/sound pressure levels are at Low-Mid1-Mid2-Hi.

Ventilation Air: Providing sufficient ventilation air is an important part of every building design ASHRAE Standard 62 provides the minimum air requirements. Also check local codes. Specifications are subject to change without notice.

LIMITED WARRANTY | Seven-year compressor and one year parts. Extended warranty of up to 10 years is available. See our website for details on specific additional application installation coverage.



# SPECIFICATIONS: PEFY CEILING-CONCEALED INDOOR UNIT

## PEFY-P\*\*NMSU-ER2

Model Name			PEFY-P06NM- SU-ER2* 1	PEFY-P08NM- SU-ER2	PEFY-P12NM- SU-ER2	PEFY-P15NM- SU-ER2	PEFY-P18NM- SU-ER2	PEFY-P24NM- SU-ER2
Power Source					208/230\	/, 1-phase, 60Hz		
Cooling Capacity	*2	Btu/h	6,000	8,000	12,000	15,000	18,000	24,000
Heating Capacity	*2	Btu/h	6,700 9,000 13,500 17,000				20,000	27,000
Power	Cooling	W	50/50	60/60	70	)/70	90/90	120/120
Consumption	Heating	W	30/30	40/40	50	)/50	70/70	100/100
	Cooling	А	0.42/0.41	0.51/0.49	0.56/0.53	0.57/0.55	0.74/0.70	0.98/0.93
Current	Heating	А	0.32/0.31	0.41/0.39	0.46/0.43	0.47/0.45	0.64/0.60	0.88/0.83
External Finish					Galvaniz	ed Steel Sheets		
	Height	ln.				7-7/8		
Dimensions	Width	ln.		31-1/8		3	9	46-7/8
	Depth	In.				27-9/16		
Net Weight	Unit	Pounds	4:	2	46	5	4	62
Heat Exchanger				C	cross Fin (Aluminum	Plate Fin and Copper	Tube)	
	Type x Quantity			Sirocco Fan x 2		Sirocco	Fan x 3	Sirocco Fan x 4
	Airflow Rate *3	CFM	176 - 212 - 247	194 - 247 - 317	211-282-370	282-335-388	353 - 441 - 529	423 - 565 - 706
Fan	External Static Pressure *4	In. W.G.			0.02-0.	06 - 0.14 - 0.20		
	Motor Type				DC Bru	ıshless Motor		
Air Filter					Polypropylene Hone	eycomb Fabric (washa	able)	
Refrigerant Pipe	Liquid (High Pressure) (Brazed)	ln.			1/4			3/8
Dimensions	Gas (Low Pressure) (Brazed)	ln.		1/2				
Condensate Lift N (standard)	1echanism	ln.	21-4/16					
Drain Pipe Dimen	sions (O.D.)	In.				1-1/4		
Sound Pressure Levels *3	Low-Mid-High	dB(A)	22-24-28	23-26-30	23 - 28 - 35	28 - 30 - 33	30-34-37	30-35-40

#### Notes:

Ventilation Air: Providing sufficient ventilation air is an important part of every building design ASHRAE Standard 62 provides the minimum air requirements. Also check local codes.

Specifications are subject to change without notice.

LIMITED WARRANTY | Seven-year compressor and one year parts. Extended warranty of up to 10 years is available. See our website for details on specific additional application installation coverage.

<sup>\*1</sup> Not compatible with PUHY/PURY-P-TGMU or PQHY/PQRY-P-TGMU units.

<sup>\*2</sup> Cooling/Heating capacity indicates the maximum value at operation under the following conditions: Cooling | Indoor: 80° F (27° C) D.B./67° F (19° C) W.B.; Outdoor: 95° F (35° C) D.B. Heating | Indoor: 70° F (21° C) D.B.; Outdoor: 47° F (8° C) D.B./43°F (6° C) W.B.

<sup>\*3</sup> Airflow rate/sound pressure levels are at (Low-Mid-High).

<sup>\*4</sup> External static pressure is factory set to 0.06" W.G.





## SPECIFICATIONS: PEFY **CEILING-CONCEALED INDOOR UNIT**

Model Name			PE- FY-P06NMAU-E3	PE- FY-P08NMAU-E		PE- NMAU-E3	PE- FY-P15NM <i>A</i>	AU-E3	PE- FY-P18NMAU-E	PE- 3 FY-P24NMAU-E
Power Source					2	08/230V, 1-	Phase, 60Hz			
Cooling Capacity		Btu/h *1	6,000	8,000	12,	,000	15,000	)	18,000	24,000
Heating Capacity		Btu/h *1	6,700	9,000	13	,500 17,000		)	20,000	27,000
Power	Cooling	W	6		90			110	170	
Consumption	Heating	W	4		7	0		90	150	
Current	Cooling	А	0.56	0.66	6/0.62	0.67/0.6	53	0.77/0.73	1.31/1.27	
Current	Heating	А	0.45	0.45/0.41 0.55/0.51 0.56/0.52 0.66/0.62				0.66/0.62	1.20/1.16	
External Finish				Galvanized Steel Sheet						
	Height	ln.				9-7	7/8			
Dimensions	Width	ln.		27-9/16				35-	7/16	43-5/16
	Depth	ln.				28-	7/8			
Net Weight	Unit	Pounds		49				5	8	67
Heat Exchanger					Cross Fin (A	luminum pla	ate fin and co	pper tu	be)	
	Type x Quantity	,			Sirocc	o Fan x 1				Sirocco Fan x 2
	Airflow Rate	CFM	212 - 26	65 - 300	265-	318 - 371	353 - 424 -	494	424-512-600	618 - 742 - 883
Fan	External Static Pressure	In. W.G.			0.1	4-0.20-0.2	28-0.40-0.6	0		
	Motor Type				Direc	t-driven DC	Brushless Mo	otor		
Air Filter				Direct-driven DC Brushless Motor  Polypropylene Honeycomb						
Refrigerant Pipe	Liquid (High Pressure) (Brazed)	ln.				1/4	•			3/8
Dimensions	Gas (Low Pressure) (Brazed)	ln.				1/2				5/8
Drain Pipe Dimens	ion (O.D.)	ln.				1-1/	/4"			'
Sound Pressure Levels	Lo-Mid-Hi	dB(A)	26-2	28-29		28 - 30	0-34		20	5-28-29
Model Name			PEFY-P27NMAL	J-E3 PEFY-P30	NMAU-E3	PEFY-P3	6NMAU-E3	PEFY	-P48NMAU-E3	PEFY-P54NMAU-E
Power Source						208/230V, 1	1-Phase, 60H	<u>z</u>		
Cooling Capacity		Btu/h *	1 27,000	30,	000	36	,000		48,000	54,000
Heating Capacity		Btu/h *	1 30,000	34,	000	40	,000		54,000	60,000
Power	Cooling	W		170		2	240		340	360
Consumption	Heating	W		150		2	220		320	340
Current	Cooling	А		1.31/1.27		1.50	)/1.46		2.08/2.04	2.24/2.2
Current	Heating	А		1.20/1.16		1.39	9/1.35		1.97/1.93	2.13/2.09
External Finish						Galvanized	d Steel Sheet			
	Height	In.				9-	-7/8			
Dimensions	Width	ln.		43-5/16			55-	1/8		63
	Depth	In.				28	3-7/8			
Net Weight	Unit	Pounds	3	67			8	6		93
Heat Exchanger					Cross Fin (A	Aluminum p	late fin and c	opper t	ube)	
	Type x Quantity	y				Sirocco	o Fan x 2			
	Airflow Rate *2	CFM	(	518 - 742 - 883		812 - 9	89 - 1,165	989	9-1,201-1,412	1,042 - 1,254 - 1,483
Fan	External Static Pressure	In. W.G			0.	.14 - 0.20 - 0.	.28 - 0.40 - 0.0	50		
	Extended Station	c Motor			Dire	ct-driven D	C Brushless M	1otor		
Air Filter	71	,	Polypropylene Honeycomb							
Refrigerant Pipe Dimensions	Liquid (High Pres- sure) (Brazed)	ln.	3/8							
DITTELISIONS	Gas (Low Pres- sure) (Brazed)	In.	In. 5/8							
Drain Pipe Dimen	sion (O.D.)	In.				1-	-1/4			
			1-1/4							
Sound Pressure Levels	Lo-Mid-Hi	dB(A)		28-30-34v		32-	37 - 41	3	55-40-44	36 - 41 - 45

Ventilation Air: Providing sufficient ventilation air is an important part of very buildin design ASHRAE Standard 62 provides the minimum air requirements. Also check local codes.

Notes:

1 Cooling/Heating Capacity indicates the maximum value at operation under the following conditions: Cooling | Indoor: 80° F (27° C) D.B./67° F (19° C) W.B.; Outdoor 95° F (35° C) D.B. Heating | Indoor: 70° F (21° C) D.B.; Outdoor: 45° F (7° C) D.B./43° F (6° C) W.B.

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12 Airflow rate/sound pressure levels are at Low-Mid-Hi.



### SPECIFICATIONS: PEFY **CEILING-CONCEALED INDOOR UNIT**

## PEFY-P\*\*NMH(S)U-E(2)

Model Name			PEFY-P15NMHU-E2	PEFY-P18NMHU-E2	PEFY-P24NMHU-E2	PEFY-P27NMHU-E2	PEFY-P30NMHU-E2
			PEPT-PISINMHU-EZ		I		PEFT-PSUNMHU-E.
Power Source	. +1	Dt. /b	15.000	ı	108/230V, 1-phase, 60H		70.000
Cooling Capacity		Btu/h Btu/h	15,000	18,000	24,000 27,000	27,000	30,000
Heating Capacity	Cooling	W W	270/280	270/280	330/320	30,000 390	34,000 450
Power Consumption	_					370	430
	Heating	W	250/260	250/260	310/300		
Current	Cooling	A	1.32/1.25	1.32/1.25	1.61/1.43	1.90/1.73	2.20/2.00
	Heating	А	1.21/1.14	1.21/1.14	1.50/1.32	1.79/1.62	2.09/1.89
External Finish				T	nit: Galvanized Steel Pla		T
	Height	ln.	15	15	15	15	15
Dimensions	Width	In.	29-3/8	29-3/8	29-3/8	40-9/16	40-9/16
	Depth	ln.	35-7/16	35-7/16	35-7/16	35-7/16	35-7/16
Net Weight	Unit	Pounds	98	98	100	124	124
Heat Exchanger				Cross Fin (Al	uminum Plate Fin and (	Copper Tube)	
	Type x Quantity		Sirocco Fan x 1	Sirocco Fan x 1	Sirocco Fan x 1	Sirocco Fan x 1	Sirocco Fan x 2
	Airflow Rate *2	CFM	353 - 494	353 - 494	477 - 671	547 - 777	636-883
Fan	Ext. Static Pressure	In. W.G.			0.40-1.00/0.60-1.00		
	(208/230V) Motor Type			Sin	gle-phase Induction Mo	ntor	
Air Filter	Motor Type			5111	Optional Part	7.01	
All Filter	I tourist				Optional Fart		
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Flare)	ln.	1/4	1/4	3/8	3/8	3/8
Difficultions	Gas (Low Pressure) (Flare)	In.	1/2	1/2	5/8	5/8	5/8
Drain Pipe Dimer	nsion (O.D.)	ln.	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4
Sound Pressure I	_evels (Low-High) *2	dB(A) at 230V	39 - 45	39 - 45	40-46	38-44	38-43
Model Name			PEFY-P36NMHU-E2	DEEX D (0) 10 11 1 50		l	
				1 PEFY-P48NMHU-F2	I PEFY-P54NMHU-F2	I PEFY-P72NMHSU-F	I PEFY-P96NMHSU-F
			PEF1-P36INMHU-E2	PEFY-P48NMHU-E2	PEFY-P54NMHU-E2	PEFY-P72NMHSU-E	PEFY-P96NMHSU-
Power Source	, *1	Rtu/h		2	1 208/230V, 1-phase, 60H	Z	
Power Source Cooling Capacity		Btu/h	36,000	48,000	08/230V, 1-phase, 60H 54,000	z 72,000	96,000
Power Source Cooling Capacity Heating Capacity	/ *1	Btu/h	36,000 40,000	48,000 54,000	54,000 60,000	72,000 80,000	96,000 108,000
Power Source Cooling Capacity Heating Capacity Power	/ *1 Cooling	Btu/h W	36,000 40,000 620/610	48,000 54,000 620/610	54,000 60,000 630/620	72,000 80,000 63	96,000 108,000 82
Power Source Cooling Capacity Heating Capacity	/ *1 Cooling Heating	Btu/h W W	36,000 40,000 620/610 600/590	48,000 54,000 620/610 600/590	54,000 60,000 630/620 610/600	72,000 80,000 63 63	96,000 108,000 82 82
Power Source Cooling Capacity Heating Capacity Power	Cooling Heating Cooling	Btu/h W W A	36,000 40,000 620/610 600/590 3.10/2.74	48,000 54,000 620/610 600/590 3.10/2.74	08/230V, 1-phase, 60H 54,000 60,000 630/620 610/600 3.11/2.78	72,000 80,000 63 63 3.67/3.32	96,000 108,000 82 82 4.89/4.43
Power Source Cooling Capacity Heating Capacity Power Consumption Current	/ *1 Cooling Heating	Btu/h W W	36,000 40,000 620/610 600/590	48,000 54,000 620/610 600/590 3.10/2.74 2.99/2.63	08/230V, 1-phase, 60H 54,000 60,000 630/620 610/600 3.11/2.78 3.00/2.67	72,000 80,000 63 63 3.67/3.32 3.67/3.32	96,000 108,000 82 82
Power Source Cooling Capacity Heating Capacity Power Consumption	/ *1 Cooling Heating Cooling Heating	Btu/h W A A	36,000 40,000 620/610 600/590 3.10/2.74 2.99/2.63	48,000 54,000 620/610 600/590 3.10/2.74 2.99/2.63	54,000 60,000 630/620 610/600 3.11/2.78 3.00/2.67 nit: Galvanized Steel Pla	72,000 80,000 63 63 3.67/3.32 3.67/3.32	96,000 108,000 82 82 4.89/4.43 4.89/4.43
Power Source Cooling Capacity Heating Capacity Power Consumption Current External Finish	/ *1 Cooling Heating Cooling Heating Heating	Btu/h W A A In.	36,000 40,000 620/610 600/590 3.10/2.74 2.99/2.63	48,000 54,000 620/610 600/590 3.10/2.74 2.99/2.63 Ur	54,000 60,000 630/620 610/600 3.11/2.78 3.00/2.67 nit: Galvanized Steel Plants	72,000 80,000 63 63 3.67/3.32 3.67/3.32	96,000 108,000 82 82 4.89/4.43 4.89/4.43
Power Source Cooling Capacity Heating Capacity Power Consumption Current External Finish	Cooling Heating Cooling Heating Heating  Heating  Width	Btu/h W A A In.	36,000 40,000 620/610 600/590 3.10/2.74 2.99/2.63	2 48,000 54,000 620/610 600/590 3.10/2.74 2.99/2.63 Ur 15 47-1/16	54,000 60,000 630/620 610/600 3.11/2.78 3.00/2.67 nit: Galvanized Steel Plate 15 47-1/16	72,000 80,000 63 63 3.67/3.32 3.67/3.32 ate	96,000 108,000 82 82 4.89/4.43 4.89/4.43
Power Source Cooling Capacity Heating Capacity Power Consumption Current External Finish Dimensions	Cooling Heating Cooling Heating Heating  Width Depth	Btu/h W A A In. In.	36,000 40,000 620/610 600/590 3.10/2.74 2.99/2.63 15 47-1/16 35-7/16	2 48,000 54,000 620/610 600/590 3.10/2.74 2.99/2.63 Ur 15 47-1/16 35-7/16	54,000 60,000 630/620 610/600 3.11/2.78 3.00/2.67 nit: Galvanized Steel Plate 15 47-1/16 35-7/16	72,000 80,000 63 63 3.67/3.32 3.67/3.32 ate 18-1	96,000 108,000 82 82 4.89/4.43 4.89/4.43 9/16 -1/4
Power Source Cooling Capacity Heating Capacity Power Consumption Current External Finish	Cooling Heating Cooling Heating Heating  Heating  Width	Btu/h W A A In.	36,000 40,000 620/610 600/590 3.10/2.74 2.99/2.63	2 48,000 54,000 620/610 600/590 3.10/2.74 2.99/2.63 Ur 15 47-1/16	54,000 60,000 630/620 610/600 3.11/2.78 3.00/2.67 nit: Galvanized Steel Plate 15 47-1/16	72,000 80,000 63 63 3.67/3.32 3.67/3.32 ate	96,000 108,000 82 82 4.89/4.43 4.89/4.43
Power Source Cooling Capacity Heating Capacity Power Consumption Current External Finish Dimensions	Cooling Heating Cooling Heating Heating  Width Depth	Btu/h W A A In. In.	36,000 40,000 620/610 600/590 3.10/2.74 2.99/2.63 15 47-1/16 35-7/16	2 48,000 54,000 620/610 600/590 3.10/2.74 2.99/2.63 Ur 15 47-1/16 35-7/16 153	54,000 60,000 630/620 610/600 3.11/2.78 3.00/2.67 nit: Galvanized Steel Plate 15 47-1/16 35-7/16	72,000 80,000 63 63 3.67/3.32 3.67/3.32 ate	96,000 108,000 82 82 4.89/4.43 4.89/4.43
Power Source Cooling Capacity Heating Capacity Power Consumption Current External Finish Dimensions Net Weight	Cooling Heating Cooling Heating Heating  Width Depth	Btu/h W W A A In. In. Pounds	36,000 40,000 620/610 600/590 3.10/2.74 2.99/2.63 15 47-1/16 35-7/16	2 48,000 54,000 620/610 600/590 3.10/2.74 2.99/2.63 Ur 15 47-1/16 35-7/16 153	54,000 60,000 630/620 610/600 3.11/2.78 3.00/2.67 hit: Galvanized Steel Plate 15 47-1/16 35-7/16	72,000 80,000 63 63 3.67/3.32 3.67/3.32 ate	96,000 108,000 82 82 4.89/4.43 4.89/4.43 9/16 -1/4
Power Source Cooling Capacity Heating Capacity Power Consumption Current External Finish Dimensions Net Weight	Cooling Heating Cooling Heating Heating  Height Width Depth Unit	Btu/h W W A A In. In. Pounds	36,000 40,000 620/610 600/590 3.10/2.74 2.99/2.63 15 47-1/16 35-7/16 153	2 48,000 54,000 620/610 600/590 3.10/2.74 2.99/2.63 Ur 15 47-1/16 35-7/16 153 Cross Fin (Al	08/230V, 1-phase, 60H 54,000 60,000 630/620 610/600 3.11/2.78 3.00/2.67 nit: Galvanized Steel Plate   15 47-1/16 35-7/16 157 uminum Plate Fin and 0	72,000 80,000 63 63 3.67/3.32 3.67/3.32 ate 18-9 49 44 214 Copper Tube) Sirocco Fan x 2	96,000 108,000 82 82 4.89/4.43 4.89/4.43 9/16 -1/4 -1/8 221
Power Source Cooling Capacity Heating Capacity Power Consumption Current External Finish Dimensions Net Weight Heat Exchanger	/*1 Cooling Heating Cooling Heating  Height Width Depth Unit	Btu/h W W A A In. In. Pounds	36,000 40,000 620/610 600/590 3.10/2.74 2.99/2.63 15 47-1/16 35-7/16 153	2 48,000 54,000 620/610 600/590 3.10/2.74 2.99/2.63 Ur 15 47-1/16 35-7/16 153 Cross Fin (Al	54,000 60,000 630,620 610,600 3.11/2.78 3.00/2.67 nit: Galvanized Steel Plate 15 47-1/16 35-7/16 157 uminum Plate Fin and 6 Sirocco Fan x 2	72,000 80,000 63 63 3.67/3.32 3.67/3.32 ate 18-1 49 44 214 Copper Tube) Sirocco Fan x 2 1,766 - 2,154 - 2,542	96,000 108,000 82 82 4.89/4.43 4.89/4.43 9/16 -1/4 -1/8 221
Power Source Cooling Capacity Heating Capacity Power Consumption Current External Finish Dimensions Net Weight Heat Exchanger	Cooling Heating Cooling Heating Heating  Height Width Depth Unit  Type x Qu Airflow Rate *2 Ext. Static Pressure	Btu/h W W A A In. In. Pounds  Jantity  CFM In. W.G.	36,000 40,000 620/610 600/590 3.10/2.74 2.99/2.63 15 47-1/16 35-7/16 153 Sirocco Fan x 2 936-1,342	2 48,000 54,000 620/610 600/590 3.10/2.74 2.99/2.63 Ur 15 47-1/16 35-7/16 153 Cross Fin (Al Sirocco Fan x 2 936-1,342	54,000 60,000 630,620 610,600 3.11/2.78 3.00/2.67 nit: Galvanized Steel Plate 15 47-1/16 35-7/16 157 uminum Plate Fin and 6 Sirocco Fan x 2 989-1,412	72,000 80,000 63 63 63 3.67/3.32 3.67/3.32 ate  18-4 49 44 214 Copper Tube) Sirocco Fan x 2 1,766 - 2,154 - 2,542 0.20 - 0.40 - 0.	96,000 108,000 82 82 4.89/4.43 4.89/4.43 -1/4 -1/8 221  Sirocco Fan x 2 2,048-2,507-2,96
Power Source Cooling Capacity Heating Capacity Power Consumption Current External Finish Dimensions Net Weight Heat Exchanger	Cooling Heating Cooling Heating Height Width Depth Unit  Type x Qu Airflow Rate *2 Ext. Static Pressure (208/230V)	Btu/h W W A A In. In. Pounds  Jantity  CFM In. W.G.	36,000 40,000 620/610 600/590 3.10/2.74 2.99/2.63 15 47-1/16 35-7/16 153 Sirocco Fan x 2 936-1,342	48,000 54,000 620/610 600/590 3.10/2.74 2.99/2.63 Ur 15 47-1/16 35-7/16 153 Cross Fin (Al Sirocco Fan x 2 936-1,342 0.40-1.00/0.60-1.00	54,000 60,000 630,620 610,600 3.11/2.78 3.00/2.67 nit: Galvanized Steel Plate 15 47-1/16 35-7/16 157 uminum Plate Fin and 6 Sirocco Fan x 2 989-1,412	72,000 80,000 63 63 63 3.67/3.32 3.67/3.32 ate  18-4 49 44 214 Copper Tube) Sirocco Fan x 2 1,766 - 2,154 - 2,542 0.20 - 0.40 - 0.	96,000 108,000 82 82 4.89/4.43 4.89/4.43 9/16 -1/4 -1/8 221 Sirocco Fan x 2 2,048-2,507-2,96 60-0.80-1.00
Power Source Cooling Capacity Heating Capacity Power Consumption Current External Finish Dimensions Net Weight Heat Exchanger	Cooling Heating Cooling Heating Height Width Depth Unit  Type x Qu Airflow Rate *2 Ext. Static Pressure (208/230V)	Btu/h W W A A In. In. Pounds  Jantity  CFM In. W.G.	36,000 40,000 620/610 600/590 3.10/2.74 2.99/2.63 15 47-1/16 35-7/16 153 Sirocco Fan x 2 936-1,342	48,000 54,000 620/610 600/590 3.10/2.74 2.99/2.63 Ur 15 47-1/16 35-7/16 153 Cross Fin (Al Sirocco Fan x 2 936-1,342 0.40-1.00/0.60-1.00	54,000 60,000 630,620 610,600 3.11/2.78 3.00/2.67 nit: Galvanized Steel Plate 15 47-1/16 35-7/16 157 uminum Plate Fin and 6 Sirocco Fan x 2 989-1,412	72,000 80,000 63 63 63 3.67/3.32 3.67/3.32 ate  18-4 49 44 214 Copper Tube) Sirocco Fan x 2 1,766 - 2,154 - 2,542 0.20 - 0.40 - 0.	96,000 108,000 82 82 4.89/4.43 4.89/4.43 9/16 -1/4 -1/8 221 Sirocco Fan x 2 2,048-2,507-2,96 60-0.80-1.00
Power Source Cooling Capacity Heating Capacity Power Consumption Current External Finish Dimensions Net Weight Heat Exchanger Fan Air Filter	Cooling Heating Cooling Heating Height Width Depth Unit  Type x Qu Airflow Rate *2 Ext. Static Pressure (208/230V) Motor T	Btu/h W W A A In. In. In. Pounds  Jantity CFM In. W.G.	36,000 40,000 620/610 600/590 3.10/2.74 2.99/2.63 15 47-1/16 35-7/16 153 Sirocco Fan x 2 936-1,342	48,000 54,000 620/610 600/590 3.10/2.74 2.99/2.63 Ur 15 47-1/16 35-7/16 153 Cross Fin (Al Sirocco Fan x 2 936-1,342 0.40-1.00/0.60-1.00 gle-phase Induction Mo	54,000 60,000 630/620 610/600 3.11/2.78 3.00/2.67 hit: Galvanized Steel Plate	72,000 80,000 63 63 3.67/3.32 3.67/3.32 ate  18-1 49 44 214 Copper Tube)  Sirocco Fan x 2 1,766 - 2,154 - 2,542 0.20 - 0.40 - 0.	96,000 108,000 82 82 4.89/4.43 4.89/4.43  9/16 -1/4 -1/8 221  Sirocco Fan x 2 2,048-2,507-2,96 60 - 0.80 - 1.00
Power Source  Cooling Capacity Heating Capacity Power Consumption  Current  External Finish  Dimensions  Net Weight Heat Exchanger  Fan  Air Filter  Refrigerant Pipe	Cooling Heating Cooling Heating Height Width Depth Unit  Type x Qu Airflow Rate *2 Ext. Static Pressure (208/230V) Motor T  Liquid (High Pressure) Gas (Low Pressure)	Btu/h W W A A In. In. In. Pounds  Jantity  CFM In. W.G.	36,000 40,000 620/610 600/590 3.10/2.74 2.99/2.63 15 47-1/16 35-7/16 153 Sirocco Fan x 2 936-1,342 Sin	48,000 54,000 620/610 600/590 3.10/2.74 2.99/2.63 Ur 15 47-1/16 35-7/16 153 Cross Fin (Al Sirocco Fan x 2 936-1,342 0.40-1.00/0.60-1.00 gle-phase Induction Mo	54,000 60,000 630/620 610/600 3.11/2.78 3.00/2.67 hit: Galvanized Steel Plate   15 47-1/16 35-7/16 157 uminum Plate Fin and G Sirocco Fan x 2 989-1,412  otor Optional Part 3/8 (Flare)	72,000 80,000 63 63 63 3.67/3.32 3.67/3.32 ate  18-1 49 44 214 Copper Tube) Sirocco Fan x 2 1,766 - 2,154 - 2,542 0.20 - 0.40 - 0. DC N	96,000 108,000 82 82 82 4.89/4.43 4.89/4.43  9/16 -1/4 -1/8 221  Sirocco Fan x 2 2,048-2,507-2,96 60 - 0.80 - 1.00  4otor

Cooling | Indoor: 80° F (27° C) D.B./67° F (19° C) W.B.; Outdoor: 95° F (35° C)

Heating | Indoor: 70° F (21° C) D.B. ; Outdoor: 45° F (7° C) D.B./43° F (6° C) W.B.

\*2 Airflow rate/sound levels are at (Low-High).

Ventilation Air: Providing sufficient ventilation air is an important part of every building design ASHRAE standard 62 provides the minimum ventilation air requirments. Also check local codes.

Specifications are subject to change without notice.

LIMITED WARRANTY | Seven-year compressor and one year parts. Extended warranty of up to 10 years is available. See our website for details on specific additional application installation coverage.

<sup>\*\*1</sup> Cooling/Heating capacity indicates the maximum value at operation under the following conditions:



## SPECIFICATIONS: PFFY-P-NEMU/NRMU FLOOR-STANDING INDOOR UNIT



## PFFY-P\*\*N(E,R)MU-E

Model			PFFY-P06NEMU-E	PFFY-P08NEMU-E	PFFY-P12NEMU-E	PFFY-P15NEMU-E	PFFY-P18NEMU-E	PFFY-P24NEMU-E			
Power Source				208/230V, 1 Phase, 60Hz							
Cooling Capacit	У	Btu/h *1	6,000	8,000	12,000	15,000	18,000	24,000			
Heating Capacit	Э	Btu/h *1	6,700	9,000	13,500	17,000	20,000	27,000			
Power	Cooling	W	51/61	51/61	55/67	65/78	78/93	96/114			
Consumption	Heating	W	51/61	51/61	55/67	65/78	78/93	96/114			
C	Cooling	А	0.25/0.27	0.25/0.27	0.27/0.30	0.32/0.35	0.38/0.42	0.47/0.51			
Current	Heating	А	0.25/0.27	0.25/0.27	0.27/0.30	0.32/0.35	0.38/0.42	0.47/0.51			
External Finish (	(Munsell No.)				Acrylic Pain	ted (5Y 8/1)					
	Height	In.	24-13/16	24-13/16	24-13/16	24-13/16	24-13/16	24-13/16			
Dimensions	Width	In.	41-11/32	41-11/32	46-3/32	46-3/32	55-17/32	55-17/32			
	Depth	In.	8-11/16	8-11/16	8-11/16	8-11/16	8-11/16	8-11/16			
Net Weight	Unit	Pounds	67	67	71	73	84	89			
Heat Exchanger				Cros	ss Fin (Aluminum Pla	te Fin and Copper T	ube)				
	Type x Quantity		Sirocco Fan x 1	Sirocco Fan x 1	Sirocco Fan x 2	Sirocco Fan x 2	Sirocco Fan x 2	Sirocco Fan x 2			
_	Airflow Rate *2	CFM	194 - 229	194 - 229	247 - 317	300 - 388	353-459	353 - 494			
Fan	Motor Type				Single Phase Ir	nduction Motor					
	Motor Output	W	15	15	18	30	35	63			
Air Filter					Standa	rd Filter					
Refrigerant	Liquid (High Pres- sure) (Flare)	In.	1/4	1/4	1/4	1/4	1/4	3/8			
Pipe Dimension	Gas (Low Pressure) (Flare)	In.	1/2	1/2	1/2	1/2	1/2	5/8			
Drain Pipe Dime	nsion	In.			O.D. 1	-3/32					
Sound Levels *2	(Low-High)	dB(A)	36 - 41	36 - 41	37 - 41	38-43	38 - 43	40-46			

### Notes:

Specifications are subject to change without notice.

Cooling | Indoor: 80° F (27° C) D.B./67° F (19° C) W.B.; Outdoor: 95° F (35° C)

LIMITED WARRANTY | Seven-year compressor and one year parts. Extended warranty of up to 10 years is available. See our website for details on specific Heating | Indoor: 70° F (21° C) D.B.; Outdoor: 45° F (7° C) D.B./43° F (6° C) W.B. additional application installation coverage.

Ventilation Air: Providing sufficient ventilation air is an important part of every building design ASHRAE standard 62 provides the minimum ventilation air requirements. Also check local codes.

<sup>\*1</sup> Cooling/Heating capacity indicates the maximum value at operation under the following conditions: Cooling | Indoor: 80° F (27° C) D.B./67° F (19° C) W.B.; Outdoor: 95° F (35° C)

<sup>\*2</sup> Airflow rate/sound levels are at (Low-High).



## SPECIFICATIONS: PFFY-P-NEMU/NRMU FLOOR-STANDING INDOOR UNIT

## PFFY-P\*\*N(E,R)MU-E

Model			PFFY- P06NRMU-E	PFFY- P08NRMU-E	PFFY- P12NRMU-E	PFFY- P15NRMU-E	PFFY- P18NRMU-E	PFFY- P24NRMU-E
Power Source					208/230V, 1	Phase, 60Hz	<del> </del>	
Cooling Capac	city	Btu/h *1	6,000	8,000	12,000	15,000	18,000	24,000
Heating Capac	city	Btu/h *1	6,700	9,000	13,500	17,000	20,000	27,000
Power	Cooling	W	51/61	51/61	55/67	65/78	78/93	96/114
Consumption	Heating	W	51/61	51/61	55/67	65/78	78/93	96/114
Current	Cooling	А	0.25/0.27	0.25/0.27	0.27/0.30	0.32/0.35	0.38/0.42	0.47/0.51
	Heating	А	0.25/0.27	0.25/0.27	0.27/0.30	0.32/0.35	0.38/0.42	0.47/0.51
External Finish	(Munsell No.)				Galvanized	Sheet Metal		
	Height	In.	25-3/16	25-3/16	25-3/16	25-3/16	25-3/16	25-3/16
Dimensions	Width	In.	34-29/32	34-29/32	39-5/8	39-5/8	49-1/16	49-1/16
	Depth	In.	8-11/16	8-11/16	8-11/16	8-11/16	8-11/16	8-11/16
Net Weight	Unit	Pounds	51	51	58	60	69	71
Heat Exchange	er			Cro	ss Fin (Aluminum Pla	ite Fin and Copper Tu	ıbe)	
	Type x Quantity		Sirocco Fan x 1	Sirocco Fan x 1	Sirocco Fan x 2	Sirocco Fan x 2	Sirocco Fan x 2	Sirocco Fan x 2
F	Airflow Rate *2	CFM	194 - 229	194 - 229	247 - 317	300 - 388	353 - 459	353 - 494
Fan	Motor Type				Single Phase Ir	nduction Motor		
	Motor Output	kW	0.015	0.015	0.018	0.030	0.035	0.063
Air Filter					Standa	rd Filter		
Refrigerant	Liquid (High Pres- sure) (Flare)	ln.	1/4	1/4	1/4	1/4	1/4	3/8
Pipe Dimension	Gas (Low Pres- sure) (Flare)	ln.	1/2	1/2	1/2	1/2	1/2	5/8
Drain Pipe Dimension In.					O.D. 1	-3/32		
Sound Levels *2	(Low-High)	dB(A)	36 - 41	36 - 41	37 - 41	38 - 43	38-43	40-46

#### Notes:

\*1 Cooling/Heating capacity indicates the maximum value at operation under the

following conditions: Cooling | Indoor: 80° F (27° C) D.B./67° F (19° C) W.B. ; Outdoor: 95° F (35° C) D.B.

Heating | Indoor: 70° F (21° C) D.B.; Outdoor: 45° F (7° C) D.B./43° F (6° C) W.B. additional application installation coverage.

\*2 Airflow rate/sound levels are at (Low-High).

Ventilation Air: Providing sufficient ventilation air is an important part of every building design ASHRAE standard 62 provides the minimum ventilation air requirements. Also check local codes.

Specifications are subject to change without notice.

LIMITED WARRANTY | Seven-year compressor and one year parts. Extended warranty of up to 10 years is available. See our website for details on specific





#### PVFY-P24NA-PVFY-P30NA-PVFY-P36NA-MU-E1 PVFY-P12NA-PVFY-P18NA-PVFY-P48NA-PVFY-P54NA-Model Name MU-E1 MU-E1 MU-E1 MU-E1 MU-E1 MU-E1 Power Source 208/230V, 1-phase, 60Hz Cooling Capacity Btu/h \*1 12,000 18,000 24,000 30,000 36,000 48,000 54,000 13,500 60,000 Heating Capacity Btu/h \*1 20,000 27,000 34,000 40,000 54,000 Height 50-1/4 54-1/4 59-1/2 ln. Width 17 Dimensions In. 21 25 Depth 21-5/8 Net Weight Pounds 113 141 172 Unit Heat Exchanger Cross fin (Aluminum fin and copper tube) Type x Qty. Sirocco fan x 1 Airflow Rate 280 - 340 410 - 497 -515 - 625 -613 - 744 -767 - 931 980 - 1,190 -1,040 -CFM 1,262 - 1,485 400 585 735 875 1,095 1,400 Fan External Static In. W.G. 0.30 - 0.50 - 0.80 (selectable) Pressure Motor Type DC motor Filter Polypropylene Honeycomb Liauid (High Pres-1/4 In. 3/8 Refrigerant sure) (Brazed) Pipe Dimensions (Low Pressure) (Brazed) 1/2 5/8 In. Drain Pipe Dimensions 3/4 FPT In. Sound Pressure Levels

30 - 34 - 38

#### Notes:

(As Measured

in an Anechoic Room) \*2 dB(A)

27 - 31 - 35

28-32-36

D.B. Heating | Indoor:  $70^{\circ}$  F ( $21^{\circ}$  C) D.B.; Outdoor:  $47^{\circ}$ F ( $8^{\circ}$  C) D.B./ $43^{\circ}$ F ( $6^{\circ}$  C) W.B.

\*2 Airflow rate/sound pressure levels are at (Low-Med-High).

Pressure

**PVFY-P\*\*NAMU-E1** 

Ventilation Air: Providing sufficient ventilation air is an important part of every building design. ASHRAE standard 62 provides the minimum ventilation air requirements. Also check local codes.

35 - 39 - 43

35-39-43

36-40-44

Specifications are subject to change without notice.

32-36-40

LIMITED WARRANTY | Seven-year compressor and one year parts. Extended warranty of up to 10 years is available. See our website for details on specific additional application installation coverage

<sup>\*1</sup> Cooling/Heating capacity indicates the maximum value at operation under the following conditions: Cooling | Indoor: 80° F (27° C) D.B./67° F (19° C) W.B.; Outdoor: 95° F (35° C)





## SPECIFICATIONS: LOSSNAY\* **ENERGY RECOVERY VENTILATOR (ERV)**

## LGH-F\*\*\*RVX-E

Model N	ame		LGH-F300RVX-E	LGH-F470RVX-E	LGH-F600RVX-E	LGH-F1200RVX-E		
Capacity		CFM (m3/h)	300 (510)	470 (799)	600 (1019)	1200 (2039)		
Power Sc	ource			1-phase 2	08/230V 60Hz			
Power Consumpt	ion	kW	0.012 - 0.155	0.031 - 0.348	0.034 - 0.438	0.08 - 0.88		
Current		А	0.22 - 1.17	0.60 - 5.40				
Starting Current		А		6.1		12.2		
Minimum Circuit Ampacity (MCA)		А	2.05	3.1	3.45	6.4		
Maximum Overcurrent Pro- tection (MOCP)		А			15			
Fan	Air Volume	CFM (m3/h)	75-150-225-300 (127- 255-382-510)	118-235-353-470 (200- 399-599-799)	150-300-450-600 (255- 510-765-1019)	300-600-900-1200 (510- 1019-1529-2039)		
FdII	External Stat- ic Pressure	In. W.G.	0.03-0.12-0.26-0.46	0.04-0.15-0.34-0.60	0.04-0.16-0.37-0.66	0.04-0.15-0.33-0.59		
	Temperature	%	83-76-70-65.5	84.5-77.5-73-69	81-76.5	5-73-67		
Exchange Efficiency	Enthalpy Cooling	%	65-58-53.5-50	72-64-57-51	71-64.5	-56.5-50		
	Enthalpy Heating	%	81.5-74-66.5-63	83-75-69-64	80-74.5	-68.5-64		
External F	inish		Galvanized Steel Sheet					
External Dimensions (H	x W x D)	In.	13-1/32 x 41-7/8 x 41-3/16	15-29/32 x 41-3/8 x 51-5/16	15-29/32 x 50-5/16 x 51-5/16	31-13/16 x 50-1/8 x 51-5/16		
		mm	331 x 1063 x 1046	404 x 1051 x 1302	404 x 1278 x 1302	808 x 1272 x 1302		
Net Weight		lbs	75	110	123	251		
Net Weight		kg	34	50	56	114		
Energy Transfer	Mechanism			Loss	nay® Core			
Heat Exchang	e Material			Partition, Spacing Plat	e-Cellulose Fiber Membrane			
Heat Exchang	e System		Air-To-A	r Total Heat (Sensible Heat	+ Latent Heat) Exchange, No I	Moving Parts		
Blower Type  8-3/4 In. Diameter Centrifugal Fan  9-5/8 In. Diameter Centrifugal Fan				Fan				
Motor Type			EC Motor					
Filter	r		Non-Woven Fabric Filter, Washable Fiber					
Entering Air Temperatu	re Operation Ran	ge	14° F To 104° F (-10° C To 40° C), Rh 80% Or Less					
Sound Pressure Le	evel	dB(A)	18.0-22.0-28.0-34.0	18.0-23.0-30.0-34.5	18.0-23.0-31.0-37.0	19.5-28.0-36.0-41.0		

Specifications are subject to change without notice.

LIMITED WARRANTY | Seven-year compressor and one year parts. Extended warranty of up to 10 years is available. See our website for details on specific additional application installation coverage



## SPECIFICATIONS: DEDICATED OUTDOOR **AIR SYSTEMS**



### **PEFY-AF**

Model Name			PEFY-AF1200CFMR
Power Source			
Cooling Capacity		Btu/h *1	112,000
Heating Capacity		Btu/h *1	61,400
Reheat Capacity		Btu/h	24, 200
Power Consump-	Cooling	W	660/780
tion	Heating	W	660/780
Current	Cooling	А	3.19/3.45
Current	Heating	А	3.19/3.45
External Finish			Galvanized
	Height	In.	18-9/16
Dimensions	Width	In.	49-1/4
	Depth	In.	55-1/8
Net Weight	Unit	Pounds	309
Heat Exchanger			Cross Fin (Aluminum Plate Fin and Copper Tube)
	Type x quantity		Sirocco Fan x 2
	Airflow Rate *2	CFM	1,200
Fan	External Static		0.28-0.48-0.80 (208V)
	Pressure	In. WG	0.52-0.72-0.96 (230V)
	Motor Type		Single-phase Induction Motor
Air Filter			Field Supply
Main Coil Refrigerant Pipe	Liquid (High Pressure) (Flare)	In.	3/8
Dimensions	Gas (Low Pressure) (Flare)	In.	7/8
Reheat Coil Refrigerant Pipe	Liquid (High Pressure) (Flare)	In.	7/8
Dimensions	Gas (Low Pressure) (Flare)	ln.	3/8
Drain Pipe Dimensior	n (O.D.)	ln.	1-1/4 x 2
Sound Pressure	Law Mid High	-ID/A:	36-38-41 (208V)
Level *3	Low-Mid-High	dB(A)	39-41-43 (230V)
Operating	Cooling		50° F WB to 95° F WB (109° F DB) (10° C WB to 35° C WB [43° C DB])
Temperature Range	Heating		-4° F WB to +60° F WB (-20° C WB to +15.5° C WB)
Connectable Outdoo	r Unit		PURY-P120TLMU-A (-BS), PURY-P120YLMU-A (-BS) PURY-P120TKMU-A (-BS), PURY-P120YKMU-A (-BS)

\*1 Cooling/Heating Capacity indicates the maximum value at operation under the

Cooling | Teating Capacity indicates the maximum value at operator following conditions:

Cooling | Entering Indoor Unit: 87° F (31° C) D.B./80° F (27° C) W.B.

Cooling | Outdoor Unit: 87° F (31° C) D.B.

Heating | Entering Indoor Unit: 32° F (0° C) D.B.

Heating | Outdoor Unit: 32° F (0° C) D.B./28° F (-2° C) W.B.

Ventilation Air: Providing sufficient ventilation air is an important part of very building design ASHRAE Standard 62 provides the minimum air requirements. Also check local codes.

Specifications are subject to change without notice.

LIMITED WARRANTY | Seven-year compressor and one year parts. Extended warranty of up to 10 years is available. See our website for details on specific additional application installation coverage





#### PEFY-P\*\*NMHU-E-OA

Model Name			PEFY-P36NMHU-E-OA	PEFY-P48NMHU-E-OA	PEFY-P72NMHU-E-OA	PEFY-P96NMHU- E-OA
Power Source			208/230V, 1-Phase, 60Hz			
Cooling Capacity B		Btu/h *1	36,000	48,000	72,000	96,000
Heating Capacity		Btu/h *1	21,000	28,000	43,000	57,000
Power Consumption	Cooling	kW	0.130	0.180	0.220	0.320
	Heating	kW	0.140	0.200	0.240	0.330
Current	Cooling	А	1.25	1.59	1.86	2.56
	Heating	А	1.09	1.46	1.70	2.42
Temperature Range	Cooling *2	°F	63-118°F D.B.			
	Heating *3	°F	14-59°F D.B.			
External Finish			Galvanized steel sheet			
Dimensions	Height	ln.	15	15	18-9/16	18-9/16
	Width	ln.	47-1/16	47-1/16	49-1/4	49-1/4
	Depth	In.	35-7/16	35-7/16	44-1/8	44-1/8
Net Weight	Unit	Pounds	109	109	177	177
Heat Exchanger			Cross fin (Aluminum fin and copper tube)			
Fan	Type x Quantity		Sirocco fan x 1	Sirocco fan x 1	Sirocco fan x 2	Sirocco fan x 2
	Airflow Rate *4	CFM	350 - 400 - 450	500 - 550 - 600	700 - 800 - 900	1,000 - 1,100 - 1,200
	Motor Type		DC Motor			
	Motor Output	kW	0.244	0.244	0.375	0.375
Air Filter		Field Supply				
Refrigerant Pipe Dimensions	Liquid (High Pres- sure) (Brazed)	In.	3/8			
	Gas (Low Pressure) (Brazed)	In.	5/8	5/8	3/4	7/8
Drain Pipe Dimension (O.D.)		In.	O.D. 1-1/4 x2			
Sound Pressure Levels (As Measured in an Anechoic Room)*3	Low-Mid-High	dB(A)	35-38-40	38-40-41	34-38-42	39-41-44

### NOTES

- 1. Capacity indicates the maximum value at operation under the following condition. Cooling: Indoor 91°F (32.7°C)DB/82°F (27.8°C)WB, Outdoor 91°F (32.7°C)DB. The set temperature of the remote controller is  $63^{\circ}F$ (17.2°C). Heating: Indoor 32°F (0°C)DB/27°F (-2.9°C)WB, Outdoor 32°F (0°C) DB/27°F (-2.9°C)WB. The set temperature of the remote controller is 77°F (25°C).
- 2. Thermo-off (FAN-mode) automatically starts if the outdoor temperature is lower than  $63^{\circ}F$  (17.2°C)D.B. The fan speed automaticall runs at a very low speed if the outdoor temperature is greater than 109°F (42.8°C)D.B.
- 3. Thermo-off (FAN-mode) automatically starts if the outdoor temperature is higher than 59°F (15.0°C)D.B.
- 4. If the airflow rate is over the usable range, dew drops can be caused from the air outlet and the air flow rate is changed automatically because of the output down by the fan motor control. If the air flow rate is less than the usable range, condensation from the unit surface may occur.
- The maximum connectable indoor units to 1 outdoor unit are 110% (100% in case of heating below 23°F (-5°C)).

- When fresh air intake type indoor units connect to an outdoor unit together with other types of indoor unit, the total capacity of fresh air intake type indoor units needs to be 30% or less of the connected outdoor unit capacity.
- Un-conditioned outdoor air such as humid air or cold air blows to the indoor during thermo off operation. Please be careful when positioning indoor unit air outlet grilles, ie take the necessary precautions for cold air, and also insulate rooms for dew condensation prevention as required.
- Fresh air intake type indoor units cannot be connected to PUMY and cannot be connected to an outdoor unit together with PWFY series.
- See data book and technical service manual for more details and system restrictions.





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