MITSUBISHI ELECTRIC

COOLING & HEATING

CITYMULTI® CATALOG

VARIABLE REFRIGERANT FLOW ZONING SYSTEMS

05.2016_REPRINT

MITSUBISHI ELECTRIC IS A WORLD LEADER IN PRODUCTS THAT HELP PEOPLE LIVE BETTER.

When it comes to providing personalized comfort in every room of every building, we are 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 the #1 preferred brand with the highest quality rating among manufacturers. With over 30 years of industry leadership, we are proud to be America's #1 selling brand of variable refrigerant flow (VRF) zoning technology.

PERFORMANCE

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

TRAINING

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

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 can 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 20 years of consistent double-digit percentage growth, we continue to lead the market's growth 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.

AMERICA'S #1 SELLING BRAND OF VRF ZONING TECHNOLOGY

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JOHN C. STENNIS MEMORIAL HOSPITAL

DEKALB, MS

PRODUCT OVERVIEW

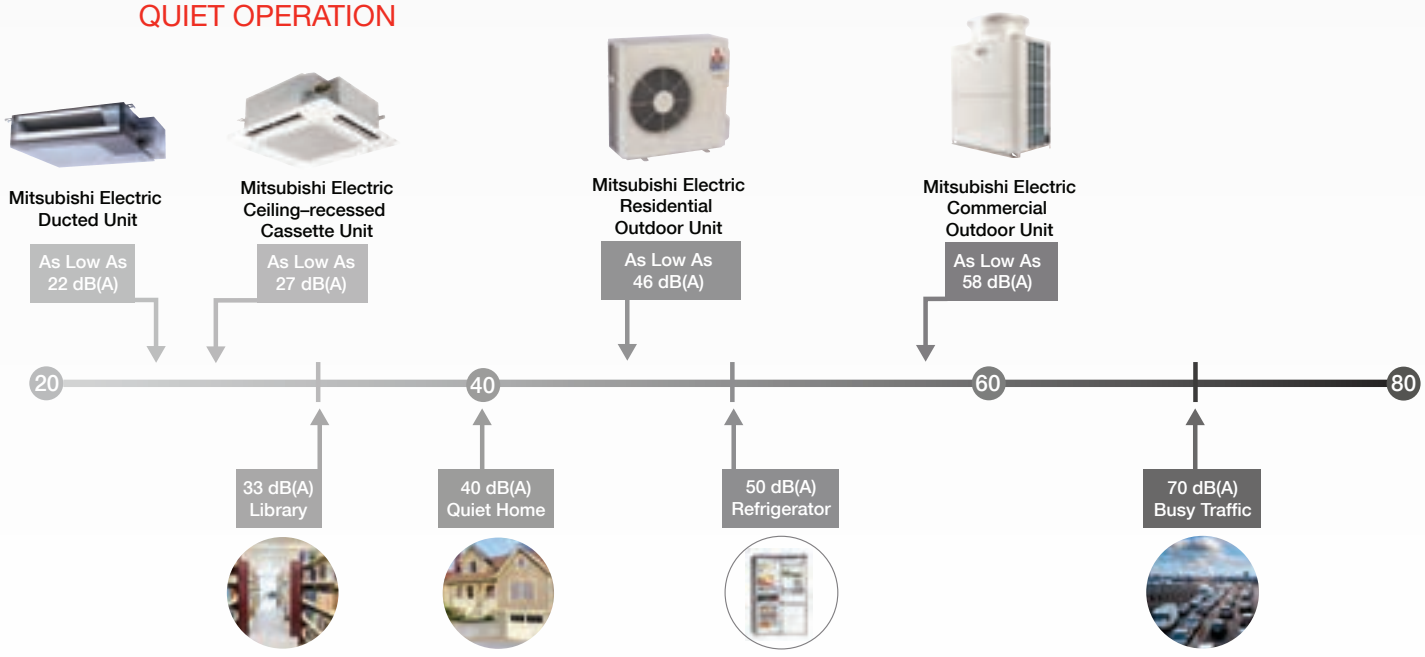
WHY CITY MULTI VRF ZONING SOLUTIONS?

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.

ADVANTAGES CITY MULTI OFFERS:

- **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.
- **Green 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 cool and heat with just two pipes.

QUIET OPERATION



PRODUCT OVERVIEW

OUTDOOR UNITS

Mitsubishi Electric offers an extensive air-source and water-source unit line-up that can be tailored to any building design need.

AIR-SOURCE HEAT RECOVERY

H2i® R2-Series

R2-Series

WY-Series

WATER-SOURCE HEAT PUMP

WR2-Series

WATER-SOURCE HEAT RECOVERY

AIR-SOURCE HEAT PUMPS

H2i® Y-Series

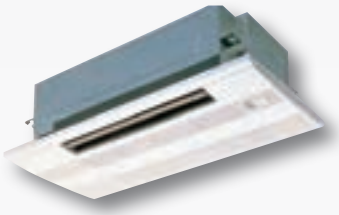
Y-Series

S-Series

INDOOR UNITS

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

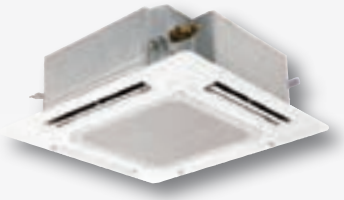
PKFY
Wall-mounted



PMFY
Ceiling-recessed Cassette (1-Way)

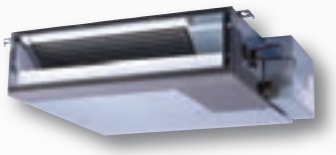
PCFY
Ceiling-suspended

PVFY
Multi-position Air Handler



PLFY–NEMU (33"x33")
PLFY–NCMU (22"x22")
Ceiling-recessed Cassette (4–Way)

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



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

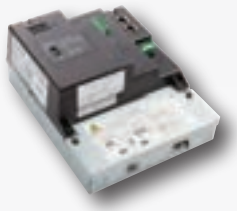
PFFY-NEMU Exposed
PFFY-NRMU Concealed
Floor-standing

CITY MULTI® CONTROLS NETWORK (CMCN)

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

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

ZONE CONTROLLERS

PAR–FL32MA
Wireless MA Wireless Remote Controller

PAC–YT53CRAU
Simple MA Remote Controller

PAR-32MAA
Wired MA Remote Controller

PAR–U01MEDU
SmartME Remote Controller

PZ–60DR
Lossnay® Remote Controller

PZ-43SMF
Lossnay® Remote Controller

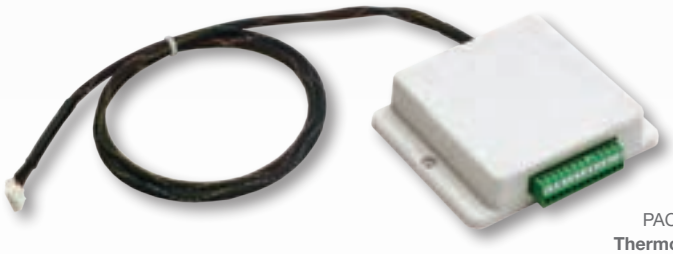
CUSTOM CONTROL SOLUTIONS

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

AHA-01(-04)-A
AdvancedHVAC Applications

LMAP04U
LonWorks® Interface

DC-600E
Diamond Controls™ Building Management System



PAC-US444CN
Thermostat Interface

CITY MULTI® HIGH-PERFORMANCE, MODULAR VRF ZONING 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 0.24" 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" and 0.24" W.G.

5. QUIET OPERATION

CITY MULTI air-source outdoor units operate at sound levels as low as 58 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 operation down to -13° F. See pages 28 and 29 (Low Ambient Cooling) for more information.

ILLUSTRATION PURPOSES ONLY

Outdoor units featuring cold weather accessories, including hail and snow guards.

OUTDOOR UNITS

R2-Series / H2i® R2-Series / Y-Series / H2i® Y-Series / S-Series / W-Series

OUTDOOR UNITS SHOWCASE

TONS	3.5	4.0	4.5	5.0	8.0	10.0	12.0
MBtu/h	42	48	54	60	96	120	144

R2-Series Heat Recovery
PURY up to 50 indoor units

72
80

R2-Series H2i® Heat Recovery
PURY up to 48 indoor units

72
80

Y-Series Heat Pump
PUHY up to 50 indoor units

72
80

Y-Series H2i Heat Pump
PUHY up to 41 indoor units

72
80

WR2-Series Water-Source Heat Recovery
PQRY up to 50 indoor units

72
80

WY-Series Water-Source Heat Pump
PQHY up to 50 indoor units

72
80

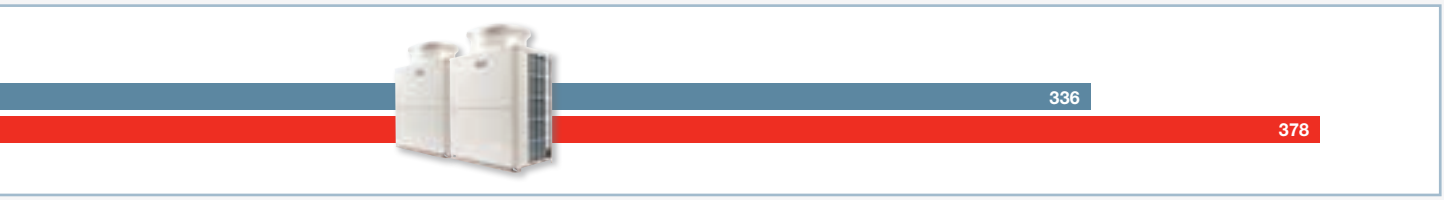
S-Series Heat Pump
PUMY up to 12 indoor units

36
60
40
66

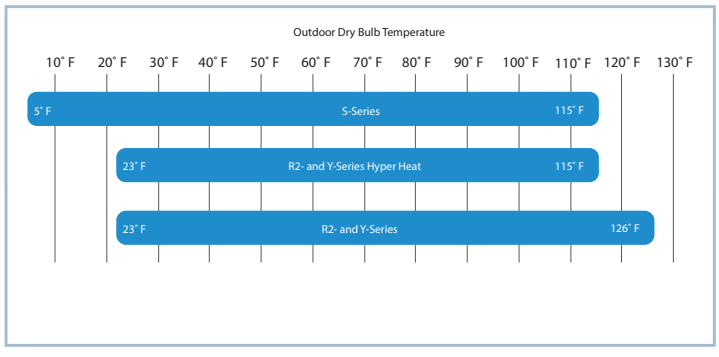
CAPACITY RANGE

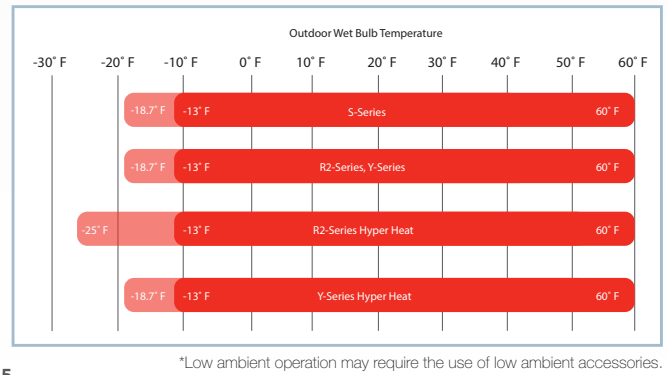
HEATING COOLING

14.0	16.0	20.0	24.0	26.0	30.0	TONS
168	192	240	288	312	360	MBtu/h



CITY MULTI OUTDOOR UNIT OPERATING RANGES





*Low ambient operation may require the use of low ambient accessories.

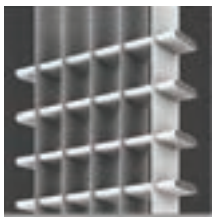
TOWSON UNIVERSITY

TOWSON, MD

R2-SERIES

The only 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.



KEY FEATURES: L-GENERATION

- Up to 54% increase in efficiency ratings.
- Single modules up to 14 tons with the ability to combine modules for systems up to 28 tons.
- HexiCoil™ aluminium flat tube heat exchanger technology, eliminating copper tubing from the coil.
- Up to 50% less refrigerant charge required than previous generations.
- Supports up to 50 indoor units per system.
- 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.

HEXICOIL™ CONDENSER COIL TECHNOLOGY

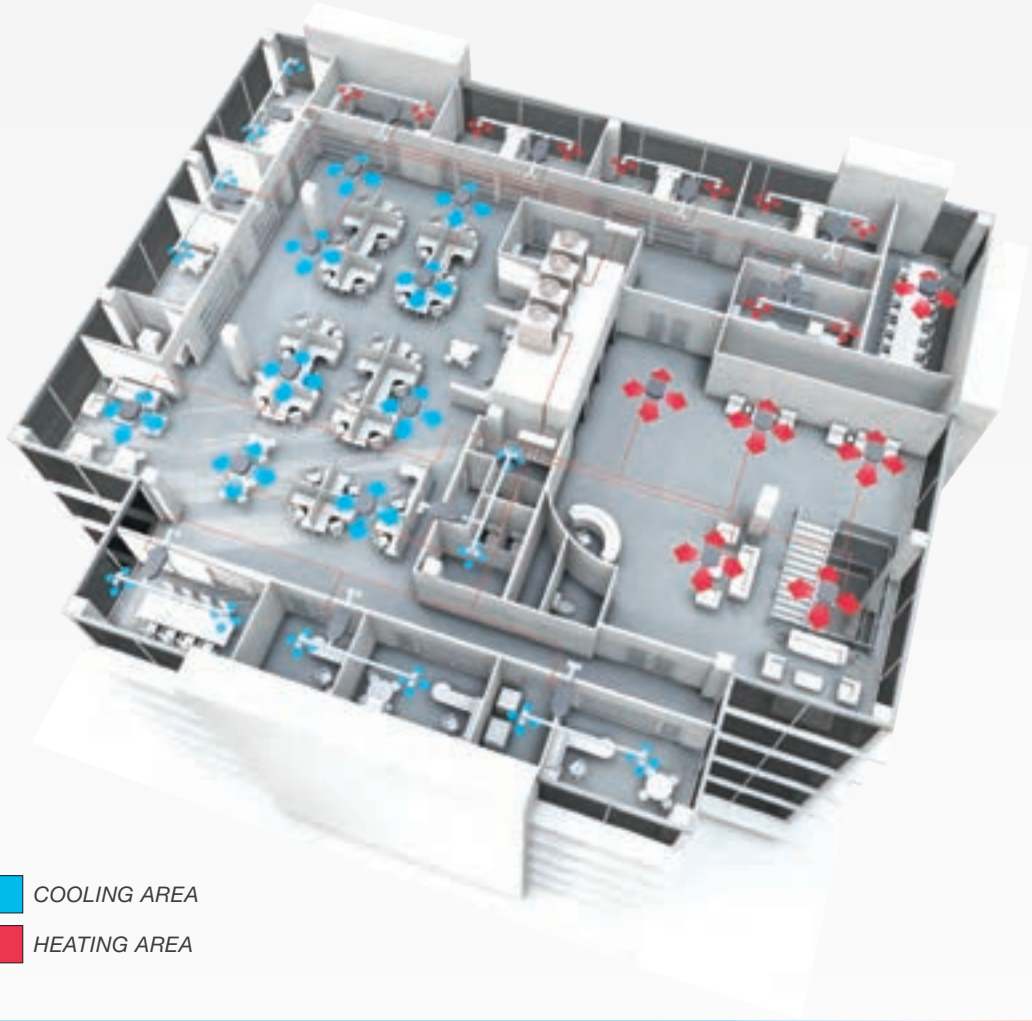
- Turbulated tube walls and optimized cross section ensure maximum heat transfer.
- Zinc coated for long-term corrosion resistance.
- Unique fin shape and coating provide water shedding capability.
- Capillary tube system leading to even fluid distribution.

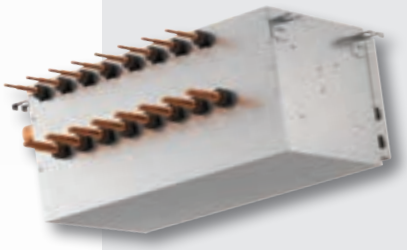
Refrigerant Piping Lengths *(Maximum Feet)*	
Total Length[1]	1,761-3,073
Farthest Indoor from Outdoor	541 *(623 equivalent)*
Maximum Length between Outdoor and Single/Main BC Controller	360
Maximum Length between Single/Main BC Controller & Indoor	131-197
Vertical Separation Between Components *(Maximum Feet)*	
Indoor/Outdoor (Outdoor Higher)[3]	164
Indoor/Outdoor (Outdoor Lower)[4]	131
Indoor/BC Controller (Single/Main)[2]	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 rejected 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.

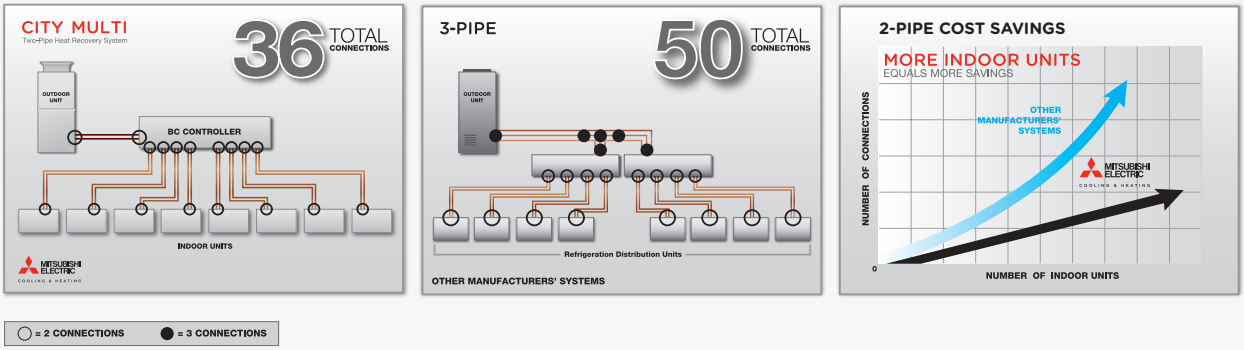
Sub BC Controller:

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

THE TWO-PIPE ADVANTAGE

Provides simultaneous cooling and heating with just two pipes, something no other VRF manufacturer can do. 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



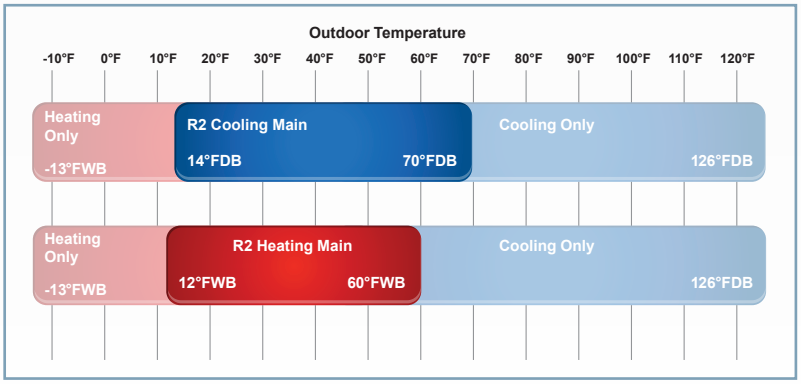
EFFECTIVE ENERGY USAGE

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 zoning 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 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. Energy Allocation 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.

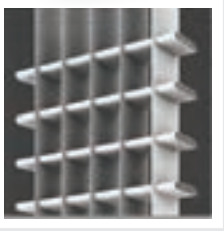
SIMULTANEOUS OPERATING RANGE



Y-SERIES

Two-pipe zoned system designed for heat pump operation

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.



KEY FEATURES: L-GENERATION

- Up to 54% increase in efficiency ratings.
- Single modules up to 14 tons with the ability to combine modules for systems up to 30 tons.
- HexiCoil™ aluminium flat tube heat exchanger technology, eliminating copper tubing from the coil.
- Up to 50% less refrigerant charge required than previous generations.
- Supports up to 50 indoor units per outdoor unit.
- 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.

HEXICOIL™ CONDENSER COIL TECHNOLOGY

- Turbulated tube walls and optimized cross section ensure maximum heat transfer.
- Zinc coated for long-term corrosion resistance.
- Unique fin shape and coating provide water shedding capability.
- Capillary tube system leading to 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) [2]	131
Indoor/Indoor	98

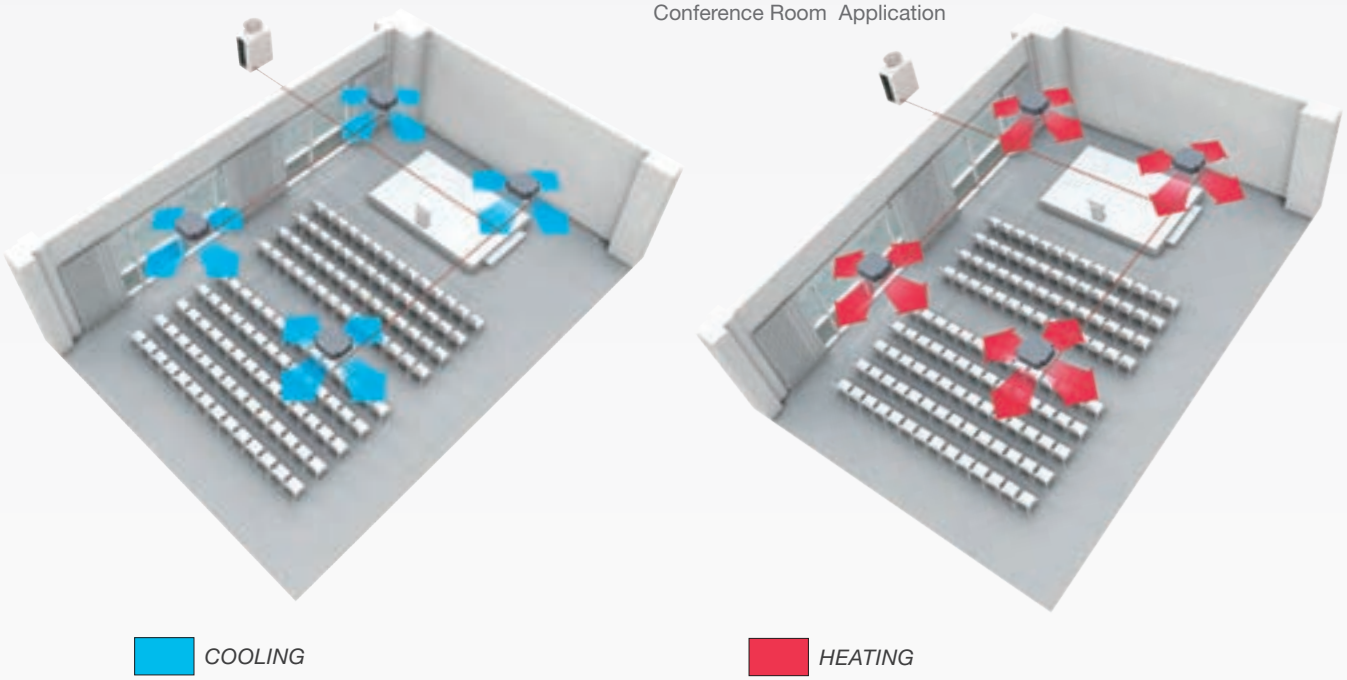
1. 295' is available depending on model and installation conditions. For more detailed information, contact your local distributor.
2. 197' is available depending on model and installation conditions. For more detailed information, contact your local distributor.

benefits

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.

Conference Room Application



COOLING *HEATING*

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 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. Energy Allocation 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.

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.

KEY FEATURES

- 2-pipe, simultaneous operation for up to 48 zones.
- Available sizes: 6, 8, 12, and 16 ton.
- 50%-150% connectable capacity.
- Extreme performance provides up to 100% heating output at 0° F and 83% heating capacity at -13° F.
- Simultaneous cooling and heating possible down to -5.8° F.
- Uses BC Controllers and headers to provide piping design flexibility and simultaneous operation.
- INVERTER-driven compressor for outstanding performance and optimized energy usage.
- 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)*	1,804-2,460
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	131-197
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	49
Controller/Sub BC Controller	49

H2i® Y-SERIES

Bringing year-round comfort to extreme climates

Hyper-Heating INVERTER (H2i®) technology enhances the Y-Series by providing full heating capacity to –4° F outdoor ambient temperature. H2i® patent-pending technology is exclusively from Mitsubishi Electric and is available in select CITY MULTI® VRF models.

KEY FEATURES

- Heat pump that provides either all-cool or all-heat operation up to 41 zones.
- Available sizes: 6, 8, 12, and 16 ton.
- 50%-130% connectable capacity.
- Extreme performance provides up to 100% heating output at –4° F and 85% heating capacity at –13° F.
- Uses T-branches and headers to provide piping design flexibility.
- INVERTER-driven compressor for outstanding performance and optimized energy usage.
- Connects to CITY MULTI indoor units; controlled via CITY MULTI Controls Network (CMCN).

Maximum Refrigerant Piping Lengths (Feet)	
Total Length	984
Indoor to Outdoor	492
Indoor to First Branch	131
Vertical Differentials Between Units (Maximum Feet)	
Indoor/Outdoor (Outdoor Higher)	164
Indoor/Outdoor (Outdoor Lower)	131
Indoor/Indoor	49

EXTREME HEATING PERFORMANCE

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

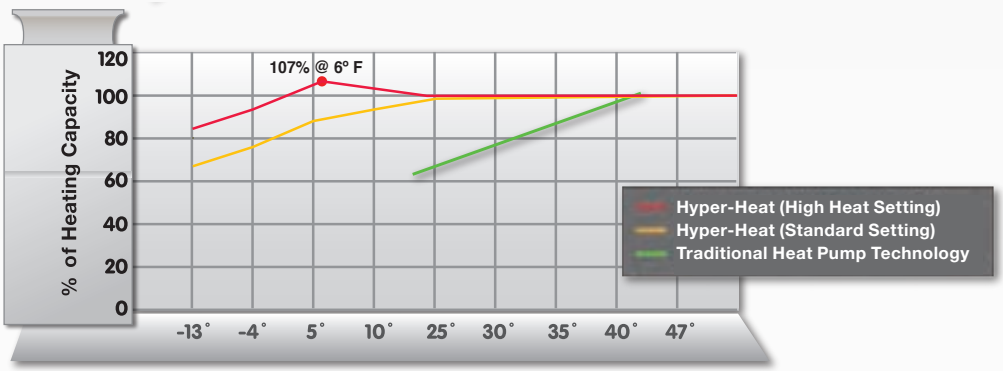
- At –13˚ F outdoor temperature, the H2i system can provide 100˚ F discharge air temperature from the indoor unit.
- At 5˚ F outdoor temperature and above, the discharge temperature reaches an impressive 110˚ F.
- At start-up, a special circuit assures that normally dormant refrigerant quickly enters the conditioning cycle. This process rapidly increases the mass flow rate in the system, which quickly provides comfortable discharge temperatures from the indoor units.

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.

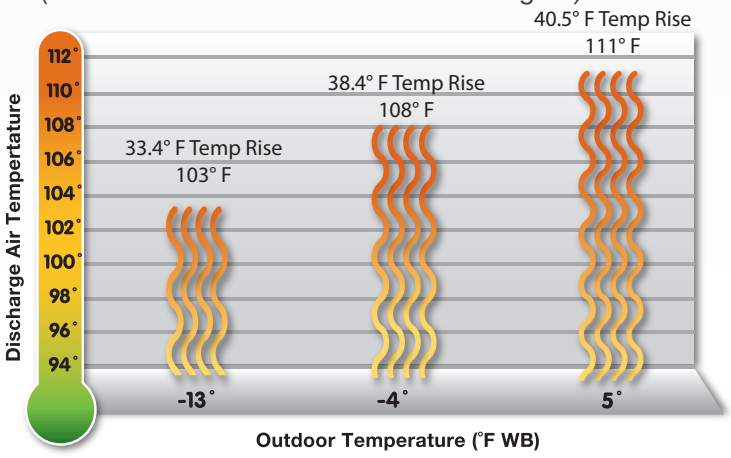
HYPER-HEATING INVERTER VS. OTHERS

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



INDOOR UNIT HEATING DISCHARGE TEMPERATURE

(PEFY-P24 NMAU-E with 70° F Entering Air*)*



S-SERIES (PUMY)

Solutions for light commercial and large residential applications

The CITY MULTI® S-Series is a single-phase heat pump system perfect for light commercial or large residential applications. Featuring best-in-class efficiency ratings and Energy Star (Circle R mark here) 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.

KEY FEATURES

- 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 29% *(average vs. prior generation).*
- HSPF rating improvement of 27% *(average vs. prior generation).*
- Blue-fin condenser coating standard on all models.
- Extended heating operating range down to -13°F.
- Extended cooling operating range down to 5°F.
- Connects up to 12 indoor units.

*Low ambient operation requires the use of low ambient accessories such as a WB-PA3 Wind Baffle.

Maximum Refrigerant Piping Lengths (Feet)	
Total Length	984[1]
Indoor to Outdoor	492[2]
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'.

W-SERIES

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.

WY- and WR2-Series

KEY FEATURES: L-GENERATION

- 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.

Benefits

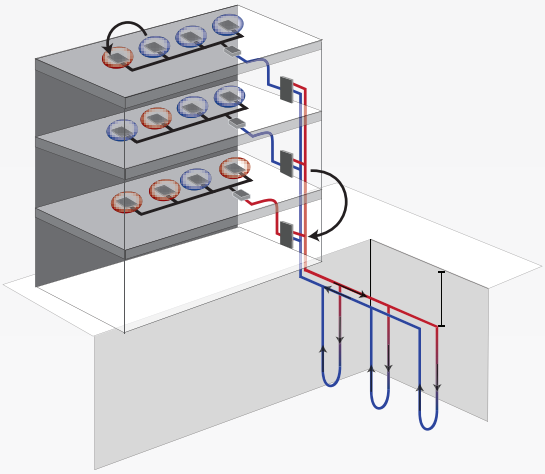
CITY MULTI SYSTEMS AND GEOTHERMAL APPLICATIONS

CITY MULTI water cooled 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.

Benefits

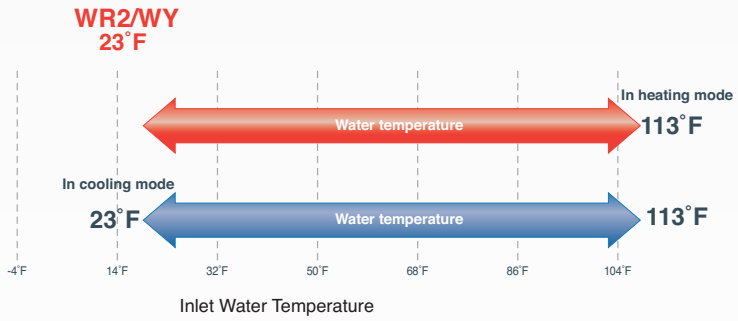
DOUBLE-HEAT RECOVERY

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.



LOW AMBIENT COOLING KIT

Full cooling performance at 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 (LAHK2) side deflector (SWDK1), and Rear Deflector (RWDK1).

KEY FEATURES

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 GUIDE

Low Ambient Cooling (LHKA 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 connects to the outdoor unit with plug-in electrical connections.

Hail/Snow Guards (SG Series and SGK Series)

Mitsubishi Electric hail/snow guards are designed to protect the outdoor unit coil surfaces from hail damage or snow build-up in severe climates. Made of 20-guage, 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.

*SG-Series is compatible with J-Generation and SGK-Series is compatible with K- and L-Generation.

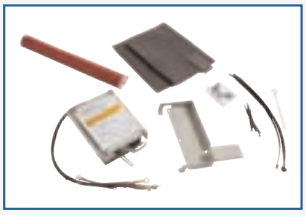
Hail/Snow Hoods (SH and SHK Series)

Mitsubishi Electric 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 build-up 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.

*SH-Series is compatible with J-Generation and SHK-Series is compatible with K- and L-Generation.

Base Pan Heaters

Mitsubishi Electric base pan heaters feature a heating coil controlled by the CITY MULTI 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. A complete base pan heater order should include a relay box, the heating element(s), required mounting brackets, and all other associated items required for installation. *Note: Snow hoods and side/rear snow guards are also recommended for installations with base pan heaters.*



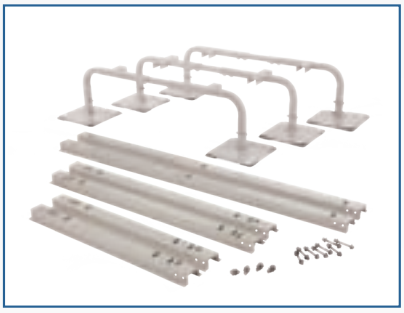
BASE PAN HEATER CONTROL BOX

Supplemental Base Pan Heaters

Available for K & L-Generation Outdoor Units, Supplemental Base Pan Heaters provide additional heat to keep Base Pans clear of ice build-up in extreme weather conditions.

Cold weather stands and supports

Mitsubishi Electric features multiple configurations of stands and supports for M-Series, P-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.

INDOOR UNITS

PKFY Wall-mounted / PLFY Ceiling-recessed Cassette / PMFY Ceiling-recessed Cassette / PCFY Ceiling-suspended / PEFY Ceiling-concealed Ducted / PFFY Floor-standing / PVFY Multi-position

INDOOR UNITS

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.

Capacity Code	Nominal Btu/h												
	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–N*MU–E 	●	●	●	●	●	●		●					
Ceiling-recessed Cassette (4-way) PLFY–P–NEMU 		●	●	●	●	●		●	●	●			
Ceiling-recessed Cassette (4-way) PLFY–P–NCMU 		●	●	●									
Ceiling-recessed 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 Option) PEFY–P–NMHU / NMHSU 				●	●	●	●	●	●	●	●	●	●
Floor-standing (Exposed/ Concealed) PFFY–P–NEMU / NRMU 	●	●	●	●	●	●							
Multi-position PVFY–P–NAMU 			●		●	●		●	●	●	●		
PWFY–P-NMU-E-AU PWFY–P-NMU-E-BU 									●			● –AU only	

PKFY (Wall-mounted)

Elegant design and compact dimensions

Whatever the size or shape of your room, there's a Mitsubishi Electric 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.

KEY FEATURES

- Ranges from 6,000 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 32 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 SmartME and SimpleMA 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-recessed Cassette)

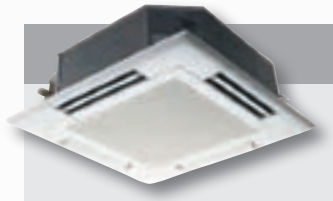
Adjustable airflow to meet your every need

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

PLFY–P-NEMU

KEY FEATURES

- 33” x 33” cabinet size.
- Capacity range of 8,000 to 48,000 Btu/h.
- Sound levels as low as 27 dB(A).
- Ventilation air connection (Second connection found in Multi-function Casement).
- High-efficiency filter option (MERV-10 requires Multi-function Casement).
- Branch ducting capability.
- Four-speed fan settings.
- Integrated condensate lift mechanism to provide up to 33-7/16” of lift.



PLFY–NCMU

KEY FEATURES

- 22" x 22" cabinet size to fit in standard T-grid ceiling.
- Capacity range of 8,000 to 15,000 Btu/h.
- Sound levels as low as 29 dB(A).
- Ventilation air connection.
- Four-speed fan settings.
- Integrated condensate lift mechanism to provide up to 19-11/16" of lift.

benefits

HIGH PERFORMANCE AND VERSATILITY

The four–way cassette unit is compact and recesses easily into a ceiling space, so all you see is an attractive flush-mounted grille. The PLFY-P-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–NCMU 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-P-NEMU and 29 dB(A) for the PLFY–NCMU.

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.

BUILT–IN CONDENSATE LIFT MECHANISM

The drain piping of the PLFY-P-NEMU can be positioned anywhere up to 33-7/16" from the ceiling's surface, allowing for long piping and versatility. The PLFY–NCMU 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.

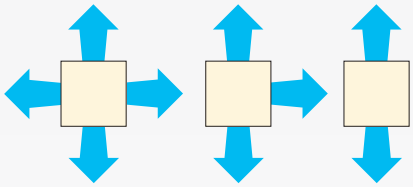
CORNER–POCKET DESIGN SIMPLIFIES MAINTENANCE AND INSTALLATION

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

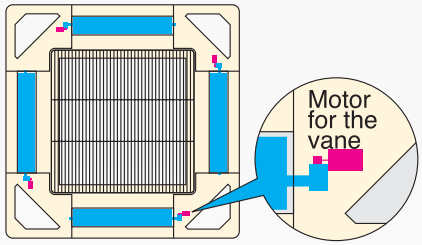
EASY MAINTENANCE, LONG–LIFE FILTER

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

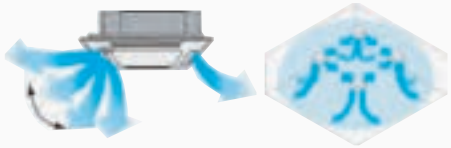
4, 3, OR 2 WAY AIRFLOW



FIXED AIRFLOW DIRECTION PER VANE



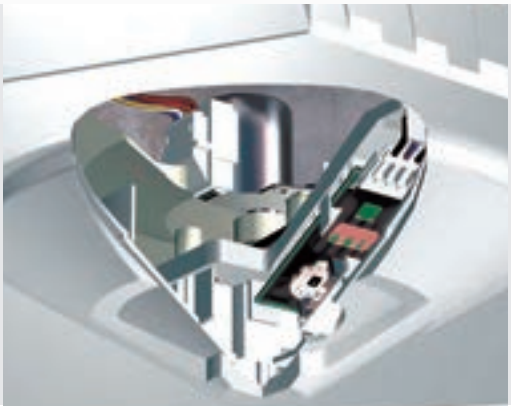
INDEPENDENT VANE MOTOR CONTROL



i-see Sensor™

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

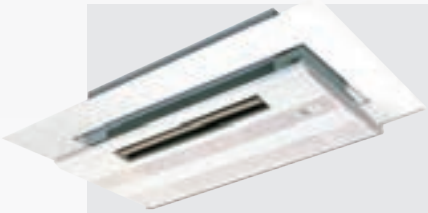
- Measures infrared rays generated from surrounding walls and surface angles.
- Rotates 90 degrees slowly in five second intervals.
- Efficiently adjusts temperatures to ideal comfort levels for occupants.



PMFY (One-way Ceiling-recessed Cassette)

Compact and lightweight, perfect for office spaces with windows

The PMFY model is a ductless, one-way, ceiling-recessed 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.



KEY FEATURES

- 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.

Benefits

QUIET OPERATION

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

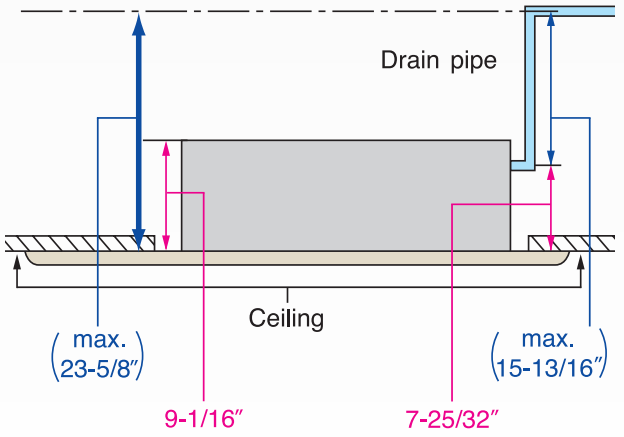
BUILT-IN CONDENSATE LIFT MECHANISM

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 MECHANISM



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.

KEY FEATURES

- 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, over–sized swing louvers direct the airflow left or right, covering the entire space quietly and efficiently.

THE i–SEE SENSOR™ 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.

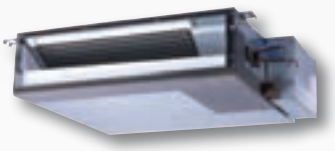
PEFY (Ceiling–concealed Ducted)

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.

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).



LOW PROFILE (NMSU)

- 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 0.60" 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).*

benefits

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. 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

Sound Level dB(A)	PEFY-P-NMAU-E	P06	P08	P12	P15	P18	P24	P27	P30	P36	P48	P54
	Fan Speed Low-High	26-29		28-34		28-35	29-36	30-38		32-41	35-44	36-45

Sound Level dB(A)	PEFY-P-NMSU-E	P06	P08	P12	P15	P18	P24
	Fan Speed Low-High	22-28	23-30	23-35	28-33	30-37	30-40

Sound Level dB(A)	PEFY-P-NMHU-E	P15	P18	P24	P27	P30	P36	P48	P54	P72	P96
	Fan Speed Low-High	34-39		36-41	35-41	38-43	38-44			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 NMHU-E2 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.

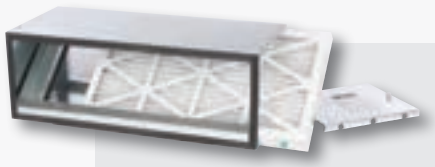
FB (M,L,H) FILTER BOXES

Designed for CITY MULTI® Ceiling-concealed Ducted Indoor Units

Low-Profile FBL1 boxes include 1" thick pleated MERV 8 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).



KEY FEATURES

- Rated Class 2 under UL Standard 900.
- Cabinet is constructed of non-insulated 20 gauge G–60 galvanized steel.
- Foam gasket provides air-tight 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–E	(1) – 13" x 25" x 1"	12
FBL1–2	PEFY–P15, P18–NMSU–E	(1) – 12" x 20" x 1" (1) – 12" x 14" x 1"	15
FBL1–3	PEFY–P24–NMSU–E	(3) – 12" x 20" x 1"	18

Part Number	Used on CITY MULTI Models	Filters Included	Net Weight (lbs.)
FBM2–1	PEFY–P06, P08, P12–NMAU–E	(1) – 14" x 25" x 2"	20
FBM2–2	PEFY–P15, P18–NMAU–E	(1) – 14" x 20" x 2" (1) – 14" x 14" x 2"	26
FBM2–3	PEFY–P24, P27, P30–NMAU–E	(2) – 14" x 20" x 2"	32
FBM2–4	PEFY–P36, P48–NMAU–E	(2) – 14" x 20" x 2" (1) – 14" x 14" x 2"	41
FBM2–5	PEFY–P54–NMAU–E	(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-E2	(1) - 20” x 24” x 2"	14
FBH2-2	PEFY-P27, P30-NMHU-E2	(1) - 20" x 16" x 2", (1) - 20" x 20" x 2"	24
FBH2-3	PEFY-P36, P48 P54-NMHU-E2	(2) - 20" x 20" x 2"	27
FBH4-4	PEFY–P72, P96–NMHSU–E	(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–P-NRMU-E
Concealed Type

PFFY–P-NEMU-E
Exposed Type

KEY FEATURES

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

Benefits

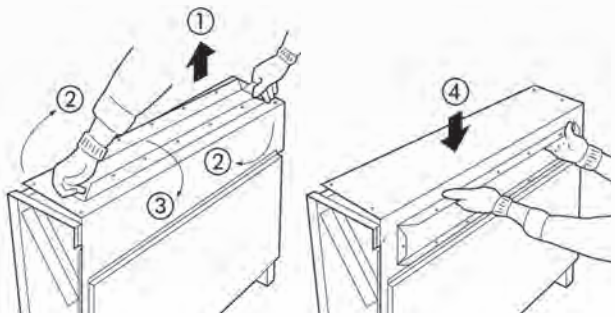
OPTIONAL MOUNTING FOR REMOTE CONTROLLER

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.

INSTALLATION FLEXIBILITY



PVFY (Multi-position Air Handler)

Ideal for closet, attic, or equipment room installations

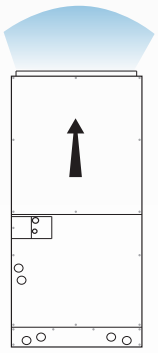
PVFY multi-position air handlers can be connected to a system with other CITY MULTI® indoor units for complete system design flexibility. The multi-position design is suitable for any application, requiring no additional kits even for down-flow configuration, making it ideal for installation in a closet, attic, or an equipment room.

Capacity Range:
12,000-54,000 Btu/h

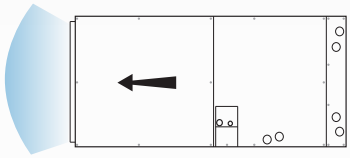
KEY FEATURES

- 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.

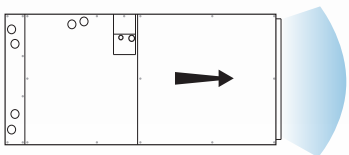
VERTICAL AIRFLOW



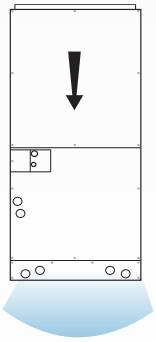
HORIZONTAL LEFT AIRFLOW



HORIZONTAL RIGHT AIRFLOW



DOWN FLOW



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-E-AU

KEY FEATURES

- 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, process cooling 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

KEY FEATURES

- 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.

VENTILATION

PremiSys® DOAS/Lossnay® Energy Recovery Ventilators (ERVs)/DOAS

PREMISYS® DEDICATED OUTDOOR AIR SYSTEM

PremiSys® PREMIER VRF VENTILATION SOLUTIONS

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.

Unit Size	Nominal Tonnage (tons)	Height (H)	Width (W)	Length (L)	Intake (A)	Condensing Section (B)	Nominal Weight (lbs)	Outdoor Intake	Supply Discharge	Exhaust Discharge
MP-1	5 - 15	58	81	117	22	30	2500	End	Bottom or Side	N/A
MP-2	10 - 25	70	100	130	22	36	3600			
MP-3	15 - 30	82	100	143	27	32	4500			
MPE-1	5 - 15	58	81	169	22	30	3600	End	Bottom or Side	Side
MPE-2	10 - 25	70	100	184	22	36	4900			
MPE-3	15 - 30	82	100	205	27	32	6200			

PREMISYS® FUSION

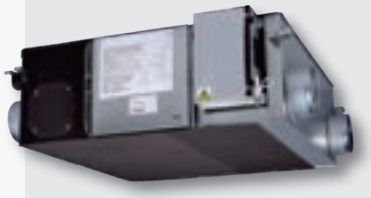
The PremiSys series of rooftop ventilation products is a premier solution for conditioning outdoor air for commercial buildings. Designed to handle 100% outdoor air with energy recovery models, PremiSys products offer premium features ideal for handling ventilation air in VRF applications.

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	Nominal Weight (lbs)	Outdoor Intake	Supply Discharge	Exhaust Discharge
MPF-1	5 - 12	58	53	148	22	2200	End	Bottom or Side	Side
MPF-2	10 - 20	71	64	163	22	2800			

LOSSNAY® ENERGY RECOVERY VENTILATORS (ERVs)

Outdoor air solutions for improved indoor environmental quality



KEY FEATURES

- Lossnay core.
- Over 50% enthalpy exchange efficiency.
- Four fan speeds on 300, 470, 600 models: extra low, low, high, extra high.
- 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.

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-RX5-E1 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 16 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–RX5–E 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–60DR remote controller, which is sold separately.

PZ-43SMF

PZ–60DR

DEDICATED OUTDOOR AIR SYSTEM (DOAS)

Provides pre-conditioned outdoor air

The award-winning PEFY–AF Dedicated Outside 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 down-stream fan coil units.

KEY FEATURES

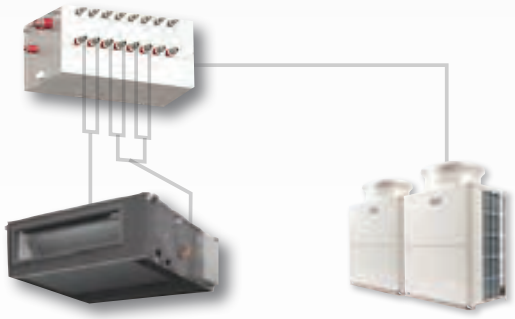
- Single-speed 1200 CFM fan.
- Multiple external static pressure set points.
- Large DX coil with high latent capacity.
- Entering air temperature and humidity sensors factory installed.
- Thin 18-9/16" high cabinet installs in small areas.
- Drain lift mechanism up to 21-11/16" included as standard.
- 50° F to 70° F saturated air available in cooling mode (CFM/PUHY-P120).
- Reheat capabilities using recovered energy from cooling through the branch controller (CFMR/PURY-P120).
- 50° F to 60° F saturated air available leaving cooling coil (CFMR/PURY-P120).
- 63° F to 83° F leaving air temperature available leaving reheat coil (CFMR/PURY-P120).

CFM

INDOOR UNIT
PEFY–AF1200 CFM

OUTDOOR UNIT
Y-SERIES *P120*

CFMR



INDOOR UNIT
PEFY–AF1200 CFMR

OUTDOOR UNIT
R2-SERIES *P120*

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 stand–alone 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

KEY FEATURES

- 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 (SW-Charge).

TABLET

FLOOR PLAN:

SCHEDULE:

ALL GROUPS:

HOME SCREEN (TABLET):

SMART PHONE

Note: requires a license (SW-PWeb)

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 (SW–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 (SW-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 (SW-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
OPTIONAL LICENSES	SW–Charge	Energy Allocation	•	•	•
	SW–Pweb	Personal Web Browser	•	•	•
	SW-BACnet	BACnet(R) 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-YG82TB-J

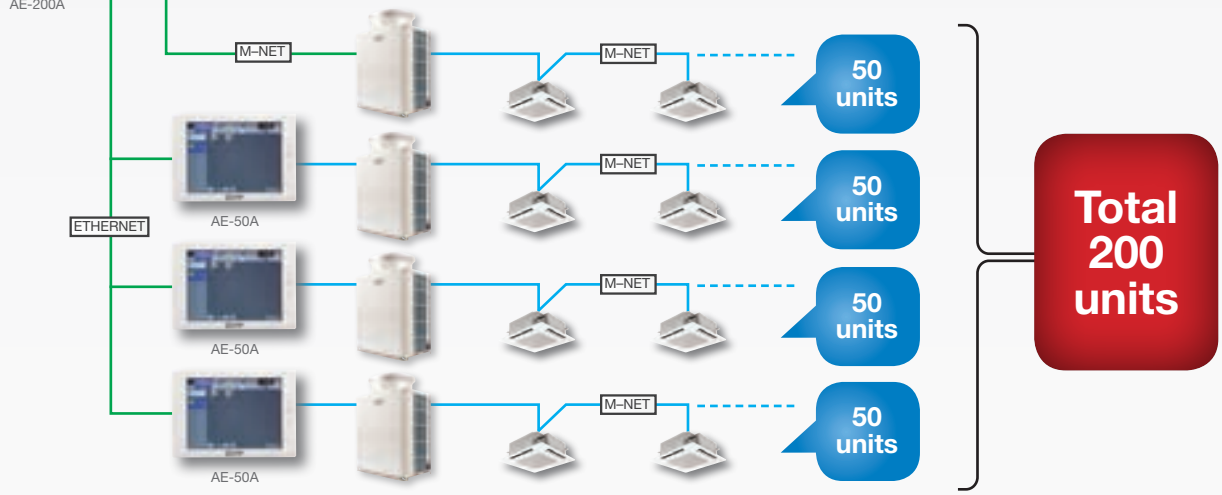
PAC-YG84UTB-J

PAC-YG86TK-J

PAC-YG72CWL-J

CENTRALIZED CONTROLLER AE-200A/AE-50A

Combines the power of a touch-screen interface with the remote capabilities of an Internet browser. The AE-200A is our most capable central controller for managing your CITY MULTI® and peripheral systems. Up to three AE-50A or EW-50A expansion controllers can be added up to a single AE-200A. This allows the AE-200A to control and monitor up to 200 indoor units from one touch screen.



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 facilities 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

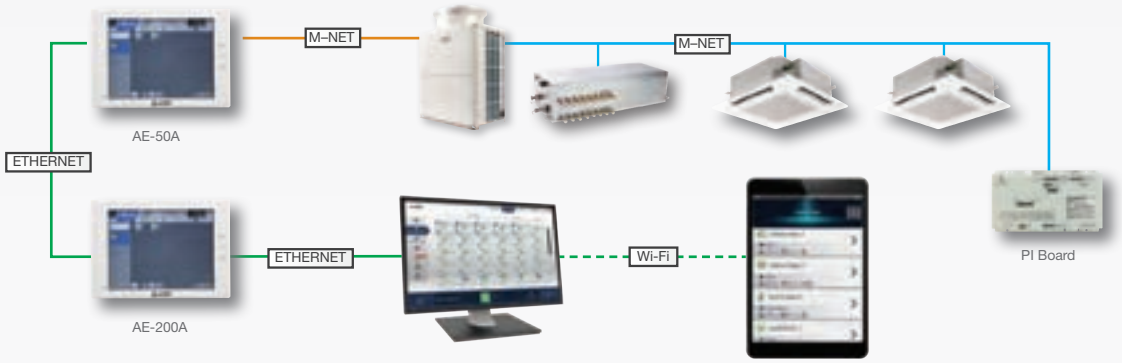
When the operation mode is set to Auto (dual set point), two preset temperatures can be set. Depending on the room temperature, the indoor unit will automatically operate in either the Cool or Heat mode to keep the room temperature within the preset range.

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.

CENTRALIZED CONTROLLER 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), along with operation time, can be displayed as well.

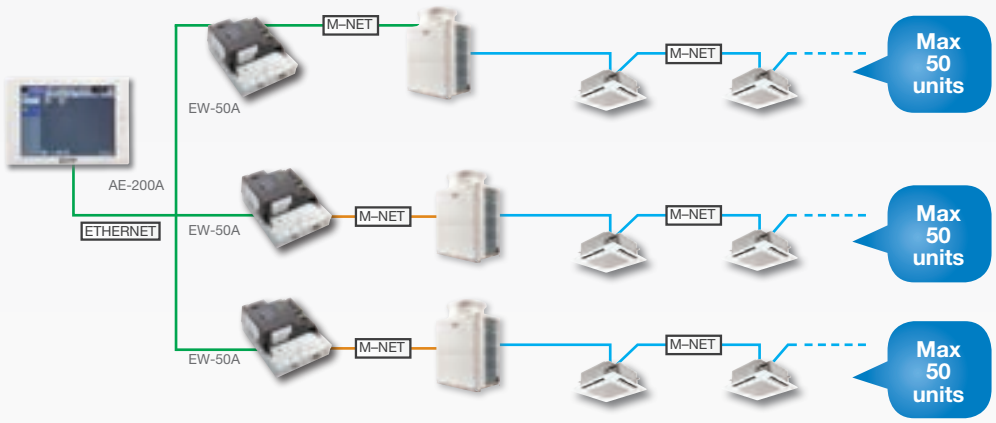
Energy consumption of the HVAC equipment is ranked and displayed by each unique area, thus visualizing high-load components within the system. In addition, a comparison of energy consumption alongside target electric energy usage is possible.

STANDARD FEATURES

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 EW-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"*

CENTRALIZED CONTROLLER EW-50A

The EW-50A centralized controller is an 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 its 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.

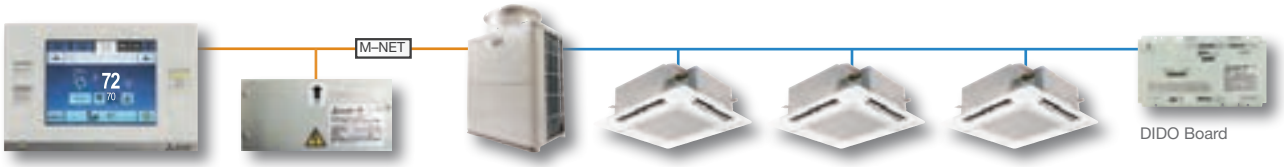


STANDARD FEATURES

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 affected 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"

CENTRALIZED CONTROLLER TC–24B

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



TC–24B PAC–SC51KUA

STANDARD FEATURES

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˚ F – 87˚ 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˚ – 80˚ – 60˚ – 40˚ 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"

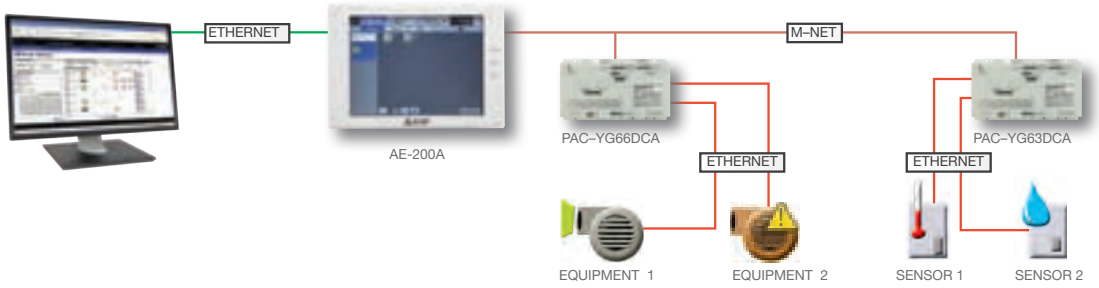
INPUT/OUTPUT CONTROLLERS

PAC-YG60MCA PULSE INPUT (PI) CONTROLLER

The 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.)*

STANDARD FEATURES

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"

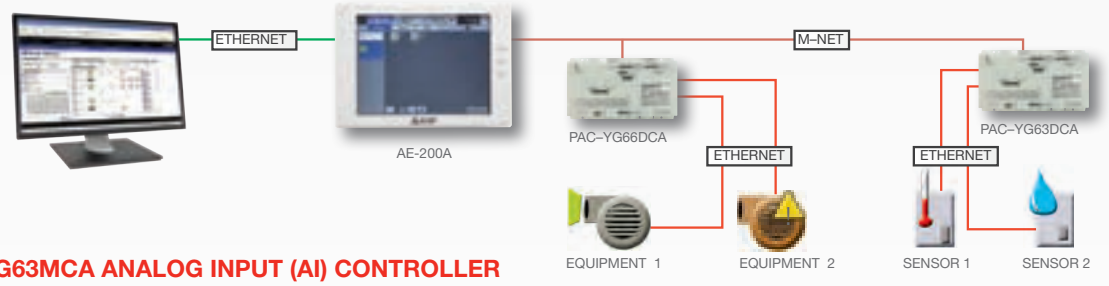


PAC–YG66DCA DIGITAL INPUT DIGITAL OUTPUT (DIDO) CONTROLLER

The 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"



PAC–YG63MCA ANALOG INPUT (AI) CONTROLLER

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.)*

STANDARD FEATURES

Function	Description
Inputs	Qty two Analog Inputs (0/10 VDC, 4/20 mA, 1–5 VDC)
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"

ZONE CONTROLLERS

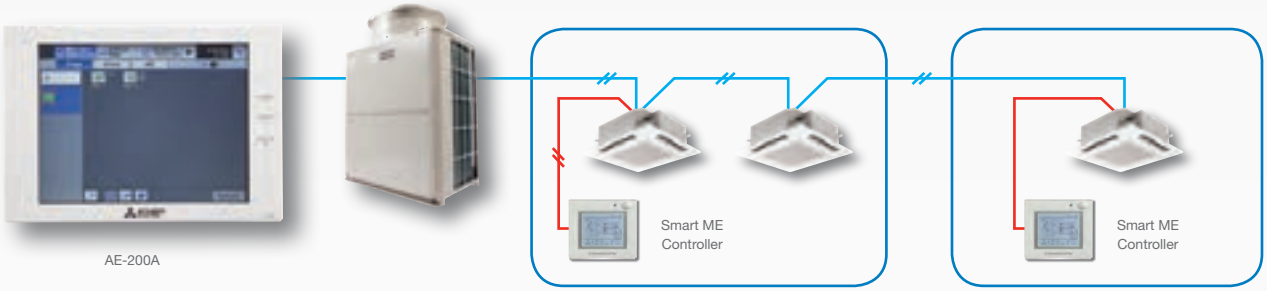
Remote Controller for CITY MULTI systems featuring an intuitive touch screen interface with dual set point functionality and LED status indicator

PAR-U01MEDU

*SMART*ME

KEY FEATURES

- 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".



AE-200A

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.

ZONE CONTROLLERS

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

PAR-32MAA

WIRED MA REMOTE CONTROLLER

KEY FEATURES

- 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.

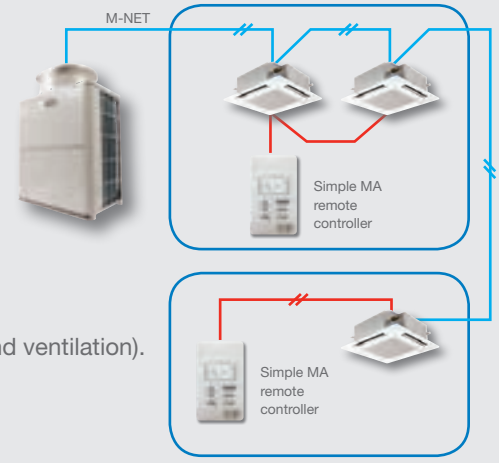
Easy to use remote for temperature and operation mode control

PAC-YT53CRAU

SIMPLE MA

KEY FEATURES

- 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.



ZONE CONTROLLERS

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

PAR-FL32MA

WIRELESS MA REMOTE CONTROLLER AND MA RECEIVER

KEY FEATURES

- 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".

ADVANCED**HVAC** CONTROLLER

AdvancedHVAC Controller

The AdvancedHVAC controller features customizable applications for integrating CITY MULTI indoor units with third party equipment. Physical inputs and outputs can be used for reading sensors and energizing relays. An analog output accessory can be added for modulating third party equipment signals. Status of inputs and outputs are displayed on the AE-200A, AE-50A, EW-50A web browser and the PAR-U01MEDU SmartME Remote Controller screen.

Auxiliary Heat

Y-Series Changeover

Humidity Control

Ventilation Control

SYSTEM INTEGRATION

The CMCN supports integration with Building Management Systems (BMS) via LonWorks® and BACnet®

The Mitsubishi Electric LonWorks® interface, LMAP04U, 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® INTERFACE

KEY FEATURES

- 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

KEY FEATURES

- Connect up to 50 indoor units per licensed 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
- Licensed feature of the centralized controller

DIAMOND CONTROLS™

A branded, bundled, and seamless building controls solution packaged with our variable refrigerant flow (VRF).

Mitsubishi Electric's Diamond Controls is powered by the industry leading NiagaraAX 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 AX Framework also includes integrated network management tools to support the design, configuration, installation and maintenance of interoperable networks.

DC-600E

The Mitsubishi Electric DC-600-E 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-600E 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-600E 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.

PROFESSIONAL SOLUTIONS GROUP

Professional Solutions is a group of industry experts located across the country who are ready to assist with ever aspect of Mitsubishi Electric Cooling & Heating systems. By utilizing Professional 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.

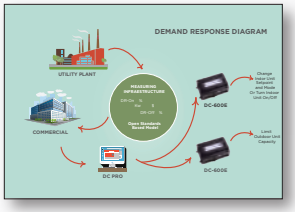
Professional Solutions services include:

- 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 without requiring 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 buildings 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.

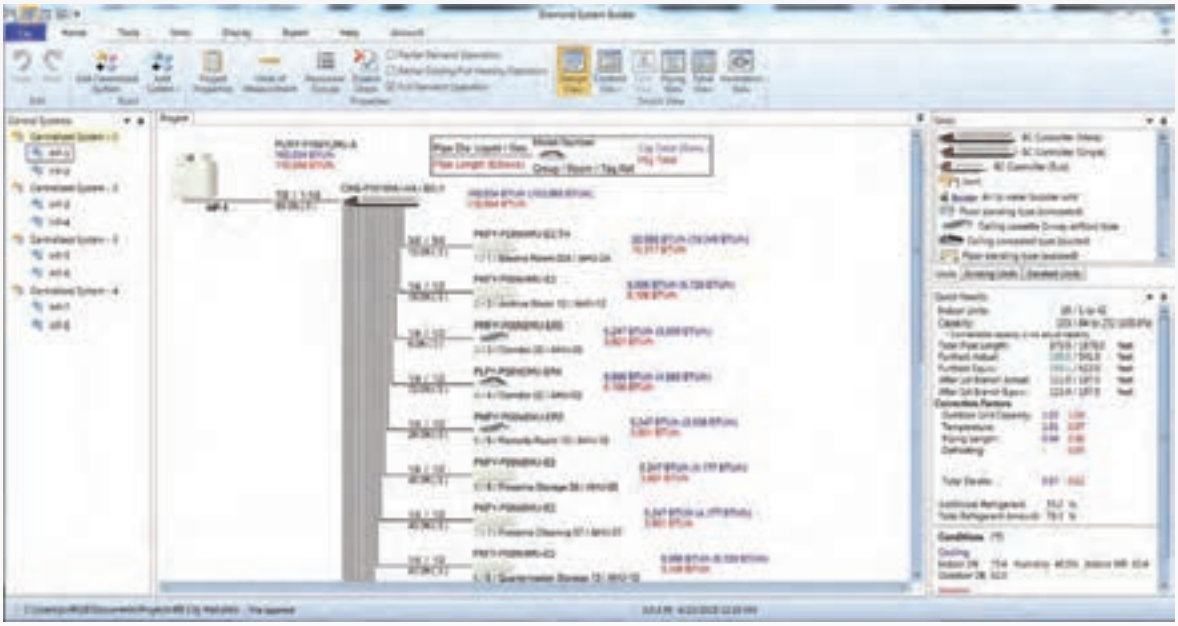
HVAC EQUIPMENT INTEGRATION

Diamond Controls can schedule, monitor, control, and integrate advanced logic within various HVAC manufacturer's 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.

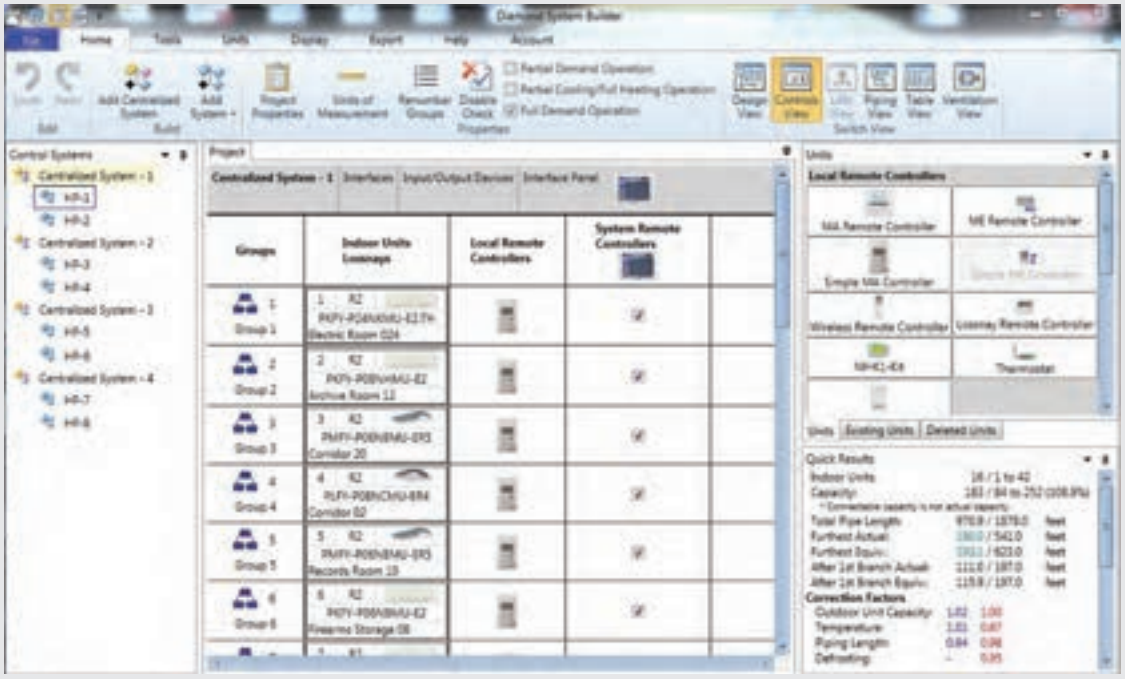
Diamond System Builder (DSB) helps users determine the cooling and heating output of selected equipment for project-specific conditions. The program has error indicators and built-in safeguards against exceeding limitations, assuring line lengths, maximum connected capacities, component selections, control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

MAINTENANCE TOOL

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

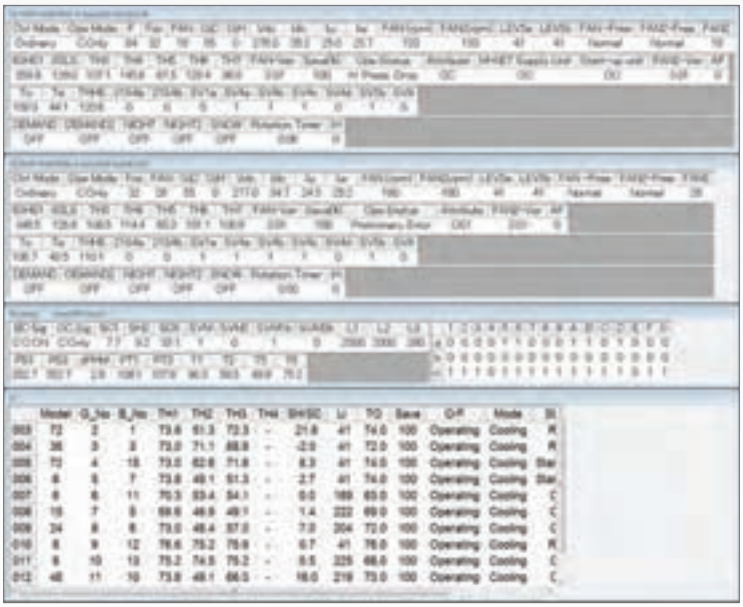
Use Maintenance Tool software to monitor pressure and temperature readings from CITY MULTI system sensors, display and control system LEV settings and display and remotely control all connected indoor units. Maintenance Tool software also allows the technician to record and save system operational data for the purposes of trending and system analysis off site as well as display malfunction logs and email error reports to personnel responsible for servicing the system.

CMS–MNG–E

MN CONVERTER

KEY FEATURES

- Allows technicians to monitor and collect CITY MULTI system data and control various functions.
- System monitoring accomplished through direct connection between your PC and the M–NET bus line using the MN–Converter.



The mode select screen allows the user to select the method for connection to the CITY MULTI system, whether direct or remotely, or choose to analyze previously recorded data offline.

The operation status monitor screen displays the operational data for the connected system, including system pressures, temperatures, LEV settings, compressor frequency, current operational mode, and more. Pre–recorded data can also be viewed in an off–line version of this screen.

SPECIFICATION TABLES

PURY-P** (T/Y) LMU

Model Name			208V /230V	PURY-P72TLMU-A (-BS)	PURY-P96TLMU-A (-BS)	PURY-P120TLMU-A (-BS)	PURY-P144TLMU-A (-BS)	PURY-P168TLMU-A (-BS)
			460V	PURY-P72YLMU-A (-BS)	PURY-P96YLMU-A (-BS)	PURY-P120YLMU-A (-BS)	PURY-P144YLMU-A (-BS)	PURY-P168YLMU-A (-BS)
Power Source				208 / 230V, 3-Phase, 60Hz 460V, 3-Phase, 60Hz				
Capacity (Nominal) *1	Cooling	Btu/h Capacity		72,000	96,000	120,000	144,000	168,000
	Heating	Btu/h Capacity		80,000	108,000	135,000	160,000	188,000
Electrical Supply	MCA	A		24 / 22 11	33 / 30 15	42 / 39 19	52 / 48 24	68 / 63 31
	MOP	A		35 / 35 20	50 / 50 25	60 / 60 30	80 / 70 35	110 / 100 50
Fan	Type X Quantity			Propeller Fan x 1		Propeller Fan x 2		
	Airflow Rate	CFM		6,550		11,300		
	External Static Pressure			Selectable; 0, 0.12 or 0.24"W.G.; factory set to 0"W.G.				
Compressor	Type X Quantity			INVERTER-driven Scroll Hermetic x 1				
	Operating Range			13% to 100%		15% to 100%		12% to 100%
	Lubricant			MEL32				
Refrigerant	Type			R410A				
External Finish				Pre-coated galvanized steel sheet (Plus Powder Coating for -BS type) <MUNSELL 5Y 8/1 or similar>				
Dimensions H x W x D	Height	In.		64-31/32				
	Width	In.		36-1/4	48-1/16	68-29/32		
	Depth	In.		29-5/32				
Net Weight		Pounds		444 474	503 534	695 730		702 730
Sound Pressure Level (Measured In Anechoic Room)		dB(A)		58.0		60.0	61.0	
Protection Devices	High Pressure Protection			High pressure sensor, High pressure switch				
	Inverter Circuit (Compressor / Fan)			Over-current protection				
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	In.		5/8	3/4		7/8	
	Gas (Low Pressure) (Brazed)	In.		3/4	1-1/8	7/8	1-1/8	
Indoor Unit Connectable	Total Capacity			50% to 150% of outdoor unit capacity				
	Model / Quantity			P06 - P72 / 1 to 18	P06 - P96 / 1 to 24	P06 - P96 / 1 to 30	P06 - P96 / 1 to 36	P06 - P96 / 1 to 42
Operating Temperature Range	Cooling	D.B.		**Outdoor: 23° to 126° F				
	Heating	W.B.		Outdoor: -13° to 60° F				
Efficiency Ratings *2								
EER (Ducted/Non-Ducted) *2				13.5 / 14.8	12.0 / 14.1	12.8 / 14.7	12.2 / 14.0	10.6 / 11.2
IEER (Ducted/Non-Ducted) *2				23.1 / 28.1	24.1 / 27.0	19.9 / 24.6	19.7 / 24.3	15.9 / 19.6
COP (Ducted/Non-Ducted) *2				3.65 / 4.30	3.53 / 4.00	3.52 / 3.99	3.38 / 3.72	3.24 / 3.49
SCHE (Ducted/Non-Ducted) *2				25.9 / 28.4	23.5 / 31.5	25.3 / 30.3	24.8 / 27.7	24.7 / 28.3

Notes:
*1 Rating Conditions:
Cooling | Indoor: 80°F (26.7°C) DB / 67°F (19°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°C) WB.
*2. Efficiency values based on AHRI 1230 test method

** Extended ambient cooling operation range down to -10° F DB Low Ambient Kit required.

-BS indicates Seacoast Protection option.

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.

PURY-P** (T/Y) LMU

Model Name	208V /230V	PURY-P144TSLMU (-BS) *2 With 2 PURY-P72TLMU-A (-BS) *3	PURY-P168TSLMU (-BS) *2 With 1 PURY-P72TLMU-A (-BS) and 1 PURY-P96TLMU-A (-BS) *3	PURY-P192TSLMU (-BS) *2 With 2 PURY-P96TLMU-A (-BS) *3	PURY-P216TSLMU (-BS) *2 With 1 PURY-P96TLMU-A (-BS) and 1 PURY-P120TLMU-A (-BS) *3	PURY-P240TSLMU-A (-BS) *2 With 2 PURY-P120TLMU-A (-BS) *3
	460V	**PURY-P144YSLMU-A (-BS) *2** **With 2 PURY-P72YLMU-A (-BS) *3**	PURY-P168YSLMU-A (-BS) *2 With 1 PURY-P72YLMU-A (-BS) and 1 PURY-P96YLMU-A (-BS) *3	PURY-P192YSLMU-A (-BS) *2 With 2 PURY-P96YLMU-A (-BS) *3	PURY-P216YSLMU-A (-BS) *2 With 1 PURY-P96YLMU-A (-BS) and 1 PURY-P120YLMU-A (-BS) *3	PURY-P240YSLMU-A (-BS) *2 With 2 PURY-P120YLMU-A (-BS) *3
Power Source		208V / 230V, 3-Phase, 60Hz 460V, 3-Phase, 60Hz				
Capacity (Nominal) *1 — Cooling	Btu/h Capacity	144,000	168,000	192,000	216,000	240,000
Capacity (Nominal) *1 — Heating	Btu/h Capacity	160,000	188,000	215,000	243,000	270,000
Fan — Type X Quantity		Refer to: PURY-P72TLMU-A (-BS) PURY-P72YLMU-A (-BS)	Refer to: PURY-P72TLMU-A (-BS) / PURY-P96TLMU-A (-BS) PURY-P72YLMU-A (-BS) / PURY-P96YLMU-A (-BS)	Refer to: PURY-P96TLMU-A (-BS) PURY-P96YLMU-A (-BS)	Refer to: PURY-P96TLMU-A (-BS) / PURY-P120TLMU-A (-BS) PURY-P96YLMU-A (-BS) / PURY-P120YLMU-A (-BS)	Refer to: PURY-P120TLMU-A (-BS) PURY-P120YLMU-A (-BS)
Fan — Airflow Rate	CFM					
Fan — External Static Pressure						
Compressor — Type X Quantity						
Compressor — Operating Range		6% to 100%			5% to 100%	7% to 100%
Compressor — Lubricant		Refer to: PURY-P72TLMU-A (-BS) PURY-P72YLMU-A (-BS)	Refer to: PURY-P72TLMU-A (-BS) / PURY-P96TLMU-A (-BS) PURY-P72YLMU-A (-BS) / PURY-P96YLMU-A (-BS)	Refer to: PURY-P96TLMU-A (-BS) PURY-P96YLMU-A (-BS)	Refer to: PURY-P96TLMU-A (-BS) / PURY-P120TLMU-A (-BS) PURY-P96YLMU-A (-BS) / PURY-P120YLMU-A (-BS)	Refer to: PURY-P120TLMU-A (-BS) PURY-P120YLMU-A (-BS)
Refrigerant — Type						
External Finish						
Dimensions H x W x D — Height	In.					
Dimensions H x W x D — Width	In.					
Dimensions H x W x D — Depth	In.					
Net Weight	Pounds					
Sound Pressure Level (Measured In Anechoic Room)	dB(A)	61.0			62.0	63.0
Protection Devices — High Pressure Protection		High pressure sensor, High pressure switch				
Protection Devices — Inverter Circuit (Compressor / Fan)		Over-current protection				
Refrigerant Pipe Dimensions — Gas (Low Pressure) (Brazed)	In.	7/8			1-1/8	
Refrigerant Pipe Dimensions — Liquid (High Pressure) (Brazed)	In.	1-1/8				1-3/8
Indoor Unit Connectable — Total Capacity		50% to 150% of outdoor unit capacity				
Indoor Unit Connectable — Model / Quantity		P06-P96 / 1 to 36	P06-P96 / 1 to 42	P06-P96 / 1 to 48	P06-P96 / 2 to 50 *4	P06-P96 / 2 to 50 *4
Operating Temperature Range — Cooling	D.B.	**Outdoor: 23° to 126° F				
Operating Temperature Range — Heating	W.B.	Outdoor: -13° to 60° F				
Efficiency Ratings *5						
EER (Ducted/Non-Ducted) *5		12.3 / 14.2	11.0 / 12.6	11.4 / 12.1	11.7 / 12.4	11.8 / 12.9
IEER (Ducted/Non-Ducted) *5		21.2 / 26.6	19.9 / 24.8	23.5 / 23.9	21.5 / 22.9	19.0 / 22.3
COP (Ducted/Non-Ducted) *5		3.58 / 4.07	3.39 / 3.77	3.53 / 3.59	3.52 / 3.59	3.45 / 3.64
SCHE (Ducted/Non-Ducted) *5		25.0 / 28.8	24.9 / 29.4	23.0 / 28.0	22.7 / 26.9	22.9 / 26.8

Notes:
*1 Rating Conditions:
Cooling | Indoor: 80°F (26.7°C) DB / 67°F (19°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°C) WB.
*2 Twinning Kit is required for combining two individual outdoor units in the field for PURY-P-T(Y)SLMU combined systems.
*3 Each individual outdoor unit requires a separate electrical connection. Reference electrical data for each individual outdoor unit.
*4 Maximum connectable number of branch pipes is 48.
*5 Efficiency values based on AHRI 1230 test method

** Extended ambient cooling operation range down to -10° F DB Low Ambient Kit required.
NOTES: In systems with considerably long piping runs, the outdoor units may exhibit slightly louder than normal sound pressure levels when in heating mode.

The outdoor twinning kit (low pressure) should be connected to the low pressure side of the outdoor unit. If the connected units are different capacities, the outdoor twinning kit (low pressure) should be installed in the unit with the largest capacity.

-BS indicates Seacoast Protection option.

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.

PURY-P** (T/Y) LMU

Model Name			208V /230V	PURY-P264TSLMU-A (-BS) *2 With 1 PURY-P120TLMU-A (-BS) and 1 PURY-P144TLMU-A (-BS) *3	PURY-P288TSLMU-A (-BS) *2 With 2 PURY-P144TLMU-A (-BS) *3	PURY-P312TSLMU-A (-BS)*2 With 1 PURY-P144TLMU-A (-BS) and 1 PURY-P168TLMU-A (-BS) *3	PURY-P336TSLMU-A (-BS)*2 With 2 PURY-P168TLMU-A (-BS) *3
			460V	PURY-P264YSLMU-A (-BS) *2	PURY-P288YSLMU-A (-BS) * *2	PURY-P312YSLMU-A (-BS) * *2	PURY-P336YSLMU-A (-BS) * *2
				With 1 PURY-P120YLMU-A (-BS)* and 1 PURY-P144YLMU-A (-BS) *3	With 2 PURY-P144YLMU-A (-BS) *3	With 1 PURY-P144YLMU-A (-BS) and 1 PURY-P168YLMU-A (-BS) *3	With 2 PURY-P168YLMU-A (-BS) *3
Power Source				208 / 230V 3-Phase, 60Hz 460V, 3-Phase, 60Hz			
Capacity (Nominal) *1	Cooling	Btu/h Capacity		264,000	288,000	312,000	336,000
	Heating	Btu/h Capacity		295,000	323,000	350,000	378,000
Fan	Type X Quantity			Refer to: PURY-P120TLMU-A (-BS) / PURY-P144TLMU-A (-BS)	Refer to: PURY-P144TLMU-A (-BS)	Refer to: PURY-P144TLMU-A (-BS) PURY-P168TLMU-A	Refer to: PURY-P168TLMU-A (-BS)
	Airflow Rate	CFM					
	External Static Pressure						
Compressor	Type X Quantity			PURY-P120YLMU-A (-BS) / PURY-P144YLMU-A (-BS)	PURY-P144YLMU-A (-BS)	PURY-P144YLMU-A (-BS) PURY-P168YLMU-A	PURY-P168YLMU-A (-BS)
	Operating Range			7% to 100%			6% to 100%
	Lubricant			Refer to: PURY-P120TLMU-A (-BS) / PURY-P144TLMU-A (-BS)	Refer to: PURY-P144TLMU-A (-BS)	Refer to: PURY-P144TLMU-A (-BS) PURY-P168TLMU-A	Refer to: PURY-P168TLMU-A (-BS)
Refrigerant	Type						
External Finish							
Dimensions H x W x D	Height	In.		PURY-P120YLMU-A (-BS) / PURY-P144YLMU-A (-BS)	PURY-P144YLMU-A (-BS)	PURY-P144YLMU-A (-BS) PURY-P168YLMU-A	PURY-P168YLMU-A (-BS)
	Width	In.					
	Depth	In.					
Net Weight		Pounds					
Sound Pressure Level (Measured In Anechoic Room)		dB(A)		63.5	64.0		
Protection Devices	High Pressure Protection			High pressure sensor, High pressure switch			
	Inverter Circuit (Compressor / Fan)			Over-current protection			
Refrigerant Pipe Dimensions	Gas (Low Pressure) (Brazed)	In.		1-1/8			
	Liquid (High Pressure) (Brazed)	In.		1-3/8		1-5/8	
Indoor Unit Connectable	Total Capacity			50% to 150% of outdoor unit capacity			
	Model / Quantity			P06-P96 / 2 to 50 *4			
Operating Temperature Range	Cooling	D.B.		**Outdoor: 23° to 126° F			
	Heating	W.B.		Outdoor: -13° to 60° F			
Efficiency Ratings * 5							
EER (Ducted/Non-Ducted) *5				11.5 / 12.5	11.3 / 12.2	10.5 / 11.0	9.9 / 9.7
IEER (Ducted/Non-Ducted) *5				18.7 / 21.9	18.5 / 21.9	16.9 / 19.7	15.3 / 17.6
COP (Ducted/Non-Ducted) *5				3.36 / 3.49	3.28 / 3.38	3.24 / 3.27	3.19 / 3.23
SCHE (Ducted/Non-Ducted) *5				22.3 / 25.7	21.7 / 24.5	20.6 / 23.8	20.4 / 23.4

Notes:
*1 Rating Conditions:
Cooling | Indoor: 80°F (26.7°C) DB / 67°F (19°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°C) WB.
*2 Twinning Kit is required for combining two individual outdoor units in the field for PURY-P-T(Y)SLMU combined systems.
*3 Each individual outdoor unit requires a separate electrical connection. Reference electrical data for each individual outdoor unit.
*4 Maximum connectable number of branch pipes is 48.
*5 Efficiency values based on AHRI 1230 test method

** Extended ambient cooling operation range down to -10° F DB Low Ambient Kit required.

NOTES: In systems with considerably long piping runs, the outdoor units may exhibit slightly louder than normal sound pressure levels when in heating mode.

The outdoor twinning kit (low pressure) should be connected to the low pressure side of the outdoor unit. If the connected units are different capacities, the outdoor twinning kit (low pressure) should be installed in the unit with the largest capacity.

-BS indicates Seacoast Protection option.

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.

PUHY-P** (T/Y) LMU

Model Name			208V/ 230V	PUHY-P72TLMU-A (-BS)	PUHY-P96TLMU-A (-BS)	PUHY-P120TLMU-A (-BS)	PUHY-P144TLMU-A (-BS)	PUHY-P168TLMU-A (-BS)
			460V	PUHY-P72YLMU-A (-BS)	PUHY-P96YLMU-A (-BS)	PUHY-P120YLMU-A (-BS)	PUHY-P144YLMU-A (-BS)	PUHY-P168YLMU-A (-BS)
Power Source				208 / 230V, 3-Phase, 60Hz / 460V, 3-Phase, 60Hz				
Capacity (Nominal) *1	Cooling	Btu/h Capacity		72,000	96,000	120,000	144,000	168,000
	Heating	Btu/h Capacity		80,000	108,000	135,000	160,000	188,000
Electrical Supply	MCA	A		24 / 22 11	32 / 29 14	42 / 39 19	46 / 43 21	58 / 54 26
	MOP	A		35 / 35 15	50 / 45 20	60 / 60 30	70 / 70 35	90 / 80 40
Fan	Type X Quantity			Propeller Fan x 1		Propeller Fan x 2		
	Airflow Rate	CFM		6,200	6,700	11,300		12,700
	External Static Pressure			Selectable; 0, 0.12 or 0.24"WG; factory set to 0"W.G.				
Compressor	Type X Quantity			INVERTER-driven Scroll Hermetic x 1				
	Operating Range			13% to 100%		15% to 100%		12% to 100%
	Lubricant			MEL32				
Refrigerant	Type			R410A				
External Finish				Pre-coated galvanized steel sheet (Plus Powder Coating for -BS type) <MUNSELL 5Y 8/1 or Similar>				
Dimensions H X W X D	Height	In.		64-31/32				
	Width	In.		36-1/4	48-1/16	68-29/32		
	Depth	In.		29-5/32"				
Net Weight		Pounds		435 468	499 532	671 706		673 702
Sound Pressure Level (Measured In Anechoic Room)		dB(A)		58.0		60.0	61.0	62.0
Protection Devices	High Pressure Protection			High pressure sensor, High pressure switch				
	Inverter Circuit (Compressor / Fan)			Over-current protection				
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	In.		3/8	3/8 (1/2", length to first joint≥ 295')	3/8 (1/2", length to first joint≥ 131')	1/2	5/8
	Gas (Low Pressure) (Brazed)	In.		7/8		1-1/8		
Indoor Unit Connectable	Total Capacity			50% to 130% of outdoor unit capacity				
	Model / Quantity			P06 - P72 / 1 to 15	P06 - P96 / 1 to 20	P06 - P96 / 1 to 26	P06 - P96 / 1 to 31	P06 - P96 / 1 to 36
Operating Temperature Range	Cooling	D.B.		**Outdoor: 23° to 126° F				
	Heating	W.B.		Outdoor: -13° to 60° F				
System Efficiencies *2								
EER (Ducted/Non-Ducted) *2				13.7 / 16.4	13.1 / 15.5	13.2 / 14.9	12.5 / 14.0	11.6 / 12.5
IEER (Ducted/Non-Ducted) *2				23.1 / 28.1	23.1 / 28.2	21.9 / 25.3	21.2 / 24.7	18.7 / 22.2
COP (Ducted/Non-Ducted) *2				3.84 / 4.44	3.79 / 4.27	3.71 / 4.17	3.55 / 3.88	3.47 / 3.77

Notes:
*1 Rating Conditions:
Cooling | Indoor: 80°F (26.7°C) DB / 67°F (19°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°C) WB.
*2 Efficiency values based on AHRI 1230 test method.

** Extended ambient cooling operation range down to -10° F DB Low Ambient Kit required.

-BS indicates Seacoast Protection option.

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.

PUHY-P** (T/Y) LMU

Model Name			208V/ 230V	PUHY-P144TSLMU-A (-BS) *2 With 2 PUHY-P72TLMU-A (-BS) *3	PUHY-P168TSLMU-A (-BS) *2 With 1 PUHY-P72TLMU-A (-BS) and 1 PUHY-P96TLMU-A (-BS) *3	PUHY-P192TSLMU-A (-BS) *2 With 1 PUHY-P72TLMU-A (-BS) and 1 PUHY-P120TLMU-A (-BS)	PUHY-P216TSLMU-A (-BS) *2 With 1 PUHY-P96TLMU-A (-BS) and 1 PUHY-P120TLMU-A (-BS) *3	PUHY-P240TSLMU-A (-BS) *2 With 2 PUHY-P120TLMU-A (-BS) *3
			460V	PUHY-P144YSLMU-A (-BS) *2 With 2 PUHY-P72YLMU-A (-BS) *3	PUHY-P168YSLMU-A (-BS) *2 With 1 PUHY-P72YLMU-A (-BS) and 1 PUHY-P96YLMU-A (-BS) *3	PUHY-P192YSLMU-A (-BS) *2 With 1 PUHY-P72YLMU (-BS) and 1 PUHYP120YLMU-A (-BS) *3	PUHY-P216YSLMU-A (-BS) *2 With 1 PUHY-P96YLMU-A (-BS) and 1 PUHY-P120YLMU-A (-BS) *3	PUHY-P240YSLMU-A (-BS) *2 With 2 PUHY-P120YLMU-A (-BS) *3
Power Source				208 / 230V, 3-Phase, 60Hz 460V, 3-Phase, 60Hz				
Capacity (Nominal) *1	Cooling	Btu/h Capacity		144,000	168,000	192,000	216,000	240,000
	Heating	Btu/h Capacity		160,000	188,000	215,000	243,000	270,000
Fan	Type X Quantity			Refer to: PUHY-P72TLMU-A (-BS) PUHY-P72YLMU-A (-BS)	Refer to: PUHY-P72TLMU-A (-BS) / PUHY-P96TLMU-A (-BS) PUHY-P72YLMU-A (-BS) / PUHY-P96YLMU-A (-BS)	Refer to: PUHY-P72TLMU-A (-BS) / PUHY-P120TLMU-A (-BS) PUHY-P72YLMU-A (-BS) / PUHY-P120YLMU-A (-BS)	Refer to: PUHY-P96TLMU-A (-BS) / PUHY-P120TLMU-A (-BS) PUHY-P96YLMU-A (-BS) / PUHY-P120YLMU-A (-BS)	Refer to: PUHY-P120TLMU-A (-BS) PUHY-P120YLMU-A (-BS)
	Airflow Rate	CFM						
	External Static Pressure							
Compressor	Type X Quantity							
	Operating Range			6% to 100%		5% to 100%		7% to 100%
	Lubricant			Refer to: PUHY-P72TLMU-A (-BS) PUHY-P72YLMU-A (-BS)	Refer to: PUHY-P72TLMU-A (-BS) / PUHY-P96TLMU-A (-BS) PUHY-P72YLMU-A (-BS) / PUHY-P96YLMU-A (-BS)	Refer to: PUHY-P72TLMU-A (-BS) / PUHY-P120TLMU-A (-BS) PUHY-P72YLMU-A (-BS) / PUHY-P120YLMU-A (-BS)	Refer to: PUHY-P96TLMU-A (-BS) / PUHY-P120TLMU-A (-BS) PUHY-P96YLMU-A (-BS) / PUHY-P120YLMU-A (-BS)	Refer to: PUHY-P120TLMU-A (-BS) PUHY-P120YLMU-A (-BS)
Refrigerant	Type							
External Finish								
Dimensions H X W X D	Height	In.						
	Width	In.						
	Depth	In.						
Net Weight		Pounds						
Sound Pressure Level (Measured In Anechoic Room)		dB(A)		61.0		62.5		63.0
Protection Devices	High Pressure Protection			High pressure sensor, High pressure switch				
	Inverter Circuit (Compressor / Fan)			Over-current protection				
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	In.		1/2	5/8			
	Gas (Low Pressure) (Brazed)	In.		1-1/8				
Indoor Unit Connectable	Total Capacity			50% to 130% of outdoor unit capacity				
	Model / Quantity			P06 - P96 / 1 to 31	P06 - P96 / 1 to 36	P06 - P96 / 1 to 41	P06 - P96 / 2 to 46	P06 - P96 / 2 to 50
Operating Temperature Range	Cooling	D.B.		**Outdoor: 23° to 126° F				
	Heating	W.B.		Outdoor: -13 to 60° F				
System Efficiencies *4								
EER (Ducted/Non-Ducted) *4				12.6 / 14.6	12.0 / 14.0	12.4 / 13.5	12.1 / 13.3	12.1 / 13.1
IEER (Ducted/Non-Ducted) *4				21.3 / 26.0	21.0 / 25.0	21.1 / 24.5	21.0 / 24.5	20.8 / 23.5
COP (Ducted/Non-Ducted) *4				3.60 / 4.10	3.50 / 3.90	3.61 / 3.70	3.56 / 3.64	3.52 / 3.67

Notes:

***1 Rating Conditions:**
Cooling | Indoor: 80°F (26.7°C) DB / 67°F (19°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°C) WB.

*2 Twinning Kit is required for combining two or three individual outdoor units in the field for PUHY-P(T)YSLMU combined systems.

*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.

** Extended ambient cooling operation range down to -10° F DB Low Ambient Kit required.

-BS indicates Seacoast Protection option.

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.

PUHY-P** (T/Y) LMU

Model Name			208V/ 230V	PUHY-P264TSLMU-A (-BS) *2 With 2 PUHY-P72TLMU-A (-BS) and 1 PUHY-P120TLMU-A (-BS) *3	PUHY-P288TSLMU-A (-BS) *2 With PUHY-P72TLMU-A (-BS) / PUHY-P96TLMU-A (-BS) / PUHY-P120TLMU-A (-BS) *3	PUHY-P312TSLMU-A (-BS) *2 With 1 PUHY-P72TLMU-A (-BS) and 2 PUHY-P120TLMU-A (-BS) *3	PUHY-P336TSLMU-A (-BS) *2 With 1 PUHY-P96TLMU-A (-BS) and 2 PUHY-P120TLMU-A (-BS) *3	PUHY-P360TSLMU-A (-BS) *2 With 3 PUHY-P120TLMU-A (-BS) *3
			460V	PUHY-P264YSLMU-A (-BS) *2 With 2 PUHY-P72YLMU-A (-BS) and 1 PUHY-P120YLMU-A (-BS) *3	PUHY-P288YSLMU-A (-BS) *2 With PUHY-P72YLMU-A (-BS) / PUHY-P96YLMU-A (-BS) / PUHY-P120YLMU-A (-BS) *3	PUHY-P312YSLMU-A (-BS) *2 With 1 PUHY-P72YLMU-A (-BS) and 2 PUHY-P120YLMU-A (-BS) *3	PUHY-P336YSLMU-A (-BS) *2 With 1 PUHY-P96YLMU-A (-BS) and 2 PUHY-P120YLMU-A (-BS) *3	PUHY-P360YSLMU-A (-BS) *2 With 3 PUHY-P120YLMU-A (-BS) *3
Power Source				208 / 230V, 3-Phase, 60Hz 208/230v				
Capacity (Nominal) *1	Cooling	Btu/h Capacity		264,000	288,000	312,000	336,000	360,000
	Heating	Btu/h Capacity		295,000	323,000	350,000	378,000	405,000
Fan	Type X Quantity			Refer to: PUHY-P72TLMU-A (-BS) / PUHY-P120TLMU-A (-BS) PUHY-P72YLMU-A (-BS) / PUHY-P120YLMU-A (-BS)	Refer to: PUHY-P72TLMU-A (-BS) / PUHY-P96TLMU-A (-BS) / PUHY-P120TKMU (-BS PUHY-P72YLMU-A (-BS) / PUHY-P96YLMU-A (-BS) / PUHY-P120YLMU-A (-BS)	Refer to: PUHY-P72TLMU-A (-BS) / PUHY-P120TLMU-A (-BS) PUHY-P72YLMU-A (-BS) / PUHY-P120YLMU-A (-BS)	Refer to: PUHY-P96TLMU-A (-BS) / PUHY-P120TLMU-A (-BS) PUHY-P96YLMU-A (-BS) / PUHY-P120YLMU-A (-BS)	Refer to: PUHY-P120TLMU-A (-BS) PUHY-P120YLMU-A (-BS)
	Airflow Rate	CFM						
	External Static Pressure							
Compressor	Type X Quantity							
	Operating Range			4% to 100%		3% to 100%		5% to 100%
	Crankcase Heater	W		Refer to: PUHY-P72TLMU-A (-BS) / PUHY-P120TLMU-A (-BS) PUHY-P72YLMU-A (-BS) / PUHY-P120YLMU-A (-BS)	Refer to: PUHY-P72TLMU-A (-BS) / PUHY-P96TLMU-A (-BS) / PUHY-P120TKMU (-BS PUHY-P72YLMU-A (-BS) / PUHY-P96YLMU-A (-BS) / PUHY-P120YLMU-A (-BS)	Refer to: PUHY-P72TLMU-A (-BS) / PUHY-P120TLMU-A (-BS) PUHY-P72YLMU-A (-BS) / PUHY-P120YLMU-A (-BS)	Refer to: PUHY-P96TLMU-A (-BS) / PUHY-P120TLMU-A (-BS) PUHY-P96YLMU-A (-BS) / PUHY-P120YLMU-A (-BS)	Refer to: PUHY-P120TLMU-A (-BS) PUHY-P120YLMU-A (-BS)
	Lubricant							
Refrigerant	Type							
External Finish								
Dimensions H X W X D	Height	In.						
	Width	In.						
	Depth	In.						
Net Weight		Pounds						
Sound Pressure Level (Measured In Anechoic Room)		dB(A)		63.5	64.0	64.5		65.0
Protection Devices	High Pressure Protection			High pressure sensor, High pressure switch				
	Inverter Circuit (Compressor / Fan)			Over-current protection				
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	In.		3/4				
	Gas (Low Pressure) (Brazed)	In.		1-3/8			1-5/8	
Indoor Unit Connectable	Total Capacity			50 to 130% of outdoor unit capacity				
	Model / Quantity			P06 - P96 / 2 to 50				
Operating Temperature Range	Cooling	D.B.		**Outdoor: 23° to 126° F				
	Heating	W.B.		Outdoor: -13° to 60° F				
System Efficiencies *4								
EER (Ducted/Non-Ducted) *4				12.4 / 13.6	12.0 / 13.5	12.0 / 13.4	11.8 / 13.2	11.8 / 13.1
IEER (Ducted/Non-Ducted) *4				21.1 / 24.0	20.4 / 24.0	20.3 / 23.4	20.3 / 23.4	20.1 / 22.7
COP (Ducted/Non-Ducted) *4				3.60 / 3.75	3.47 / 3.70	3.45 / 3.66	3.43 / 3.52	3.41 / 3.51

Notes:

*1 Rating Conditions:
Cooling | Indoor: 80°F (26.7°C) DB / 67°F (19°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°C) WB.

*2 Twinning Kit is required for combining two or three individual outdoor units in the field for PUHY-P(T)YSLMU combined systems.

*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.

** Extended ambient cooling operation range down to -10° F DB Low Ambient Kit required.

-BS indicates Seacoast Protection option.

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.

SPECIFICATIONS: K-GENERATION R2-SERIES

PURY-P***T(Y)SKMU-A

Model Name			208V /230V	PURY-P72TKMU-A (-BS)	PURY-P96TKMU-A (-BS)	PURY-P120TKMU-A (-BS)	PURY-P144TKMU-A (-BS)
			460V	PURY-P72YKMU-A (-BS)	PURY-P96YKMU-A (-BS)	PURY-P120YKMU-A (-BS)	PURY-P144YKMU-A (-BS)
Power Source				208 / 230V, 3-Phase, 60Hz / 460V, 3-Phase, 60Hz			
Capacity (Nominal) *1	Cooling	Btu/h Capacity		72,000	96,000	120,000	144,000
		kW Power Input		4.4	7.05	9.44	11.2
		A Current Input		13.5 / 12.2 / 6.1	21.7 / 19.6 / 9.8	29.1 / 26.3 / 13.1	34.5 / 31.2 / 15.6
	Heating	Btu/h Capacity		80,000	108,000	135,000	160,000
		kW Power Input		5.92	8.28	10.86	13.54
		A Current Input		18.2 / 16.5 / 8.2	25.5 / 23.0 / 11.5	33.4 / 30.7 / 15.1	41.7 / 37.7 / 18.8
Electrical Supply	MCA	A		23 / 21 / 11	34 / 31 / 15	45 / 42 / 21	53 / 48 / 24
	Recommended Fuse Size	A		25 / 15	35 / 20	50 / 25	60 / 25
Fan	Type X Quantity			Propeller Fan x 1		Propeller Fan x 2	
	Airflow Rate	CFM		6,200		11,300	11,300
	External Static Pressure			Selectable; 0, 0.12 or 0.24"W.G.; factory set to 0"W.G.			
Compressor	Type X Quantity			INVERTER-driven Scroll Hermetic x 1			
	Operating Range			17% to 100%	16% to 100%	15% to 100%	
	Lubricant			MEL32			
Refrigerant	Type			R410A			
External Finish				Pre-coated galvanized steel sheet (Plus Powder Coating for -BS type) <Munsell 5Y 8/1 or similar>			
Dimensions H x W x D	Height	In.		64-31/32			
	Width	In.		48-1/16		68-29/32	
	Depth	In.		29-5/32			
Net Weight		Pounds		503 / 534	538 / 574	715 / 743	
Sound Pressure Level (As Measured in an Anechoic Room)		dB(A)		58.0		60.0	61.0
Protection Devices	High Pressure Protection			High pressure sensor, High pressure switch			
	Inverter Circuit (Compressor / Fan)			Over-current protection			
	Fan Motor			Thermal switch			
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	In.		5/8	3/4		7/8
	Gas (Low Pressure) (Brazed)	In.		3/4	7/8	1-1/8	
Indoor Unit Connectable	Total Capacity			50% to 150% of outdoor unit capacity			
	Model / Quantity			P06 - P96 / 1 to 18	P06 - P96 / 1 to 24	P06 - P96 / 1 to 30	P06 - P96 / 1 to 36
Operating Temperature Range	Cooling	D.B.		**Outdoor: 23° to 115° F			
	Heating	W.B.		Outdoor: -13° to 60° F			
Efficiency Ratings *2							
EER (Ducted/Non-Ducted) *2				13.9 / 15.5	12.2 / 13.6	11.7 / 12.2	11.7 / 12.7
IEER (Ducted/Non-Ducted) *2				21.1 / 22.1	19.7 / 20.9	18.6 / 20.8	18.0 / 20.9
COP (Ducted/Non-Ducted) *2				3.81 / 3.72	3.64 / 3.71	3.45 / 3.61	3.41 / 3.28
SCHE (Ducted/Non-Ducted) *2				23.6 / 24.48	17.4 / 23.5	16.8 / 19.7	18.2 / 20.2

Notes:

*1 Rating Conditions:
Cooling | Indoor: 80°F (26.7°C) DB / 67°F (19°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°C) WB.

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

** Extended ambient cooling operation range down to -10° F DB Low Ambient Kit required.

-BS indicates Seacoast Protection option.

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.

PURY-P***T(Y)SKMU-A

Model Name	208V /230V		PURY-P168TSKMU-A (-BS) *2	PURY-P192TSKMU-A (-BS) *2	PURY-P216TSKMU-A (-BS) *2
			With 1 PURY-P72TKMU-A (-BS) and 1 PURY-P96TKMU-A (-BS) *3	With 2 PURY-P96TKMU-A (-BS) *3	With 1 PURY-P96TKMU-A (-BS) and 1 PURY-P120TKMU-A (-BS) *3
	460V	PURY-P144YSKMU-A (-BS) *2	PURY-P168YSKMU-A (-BS) *2	PURY-P192YSKMU-A (-BS) *2	PURY-P216YSKMU-A (-BS) *2
		With 2 PURY-P72YKMU-A (-BS) *3	With 1 PURY-P72YKMU-A (-BS) and 1 PURY-P96YKMU-A (-BS) *3	With 2 PURY-P96YKMU-A (-BS) *3	With 1 PURY-P96YKMU-A (-BS) and 1 PURY-P120YKMU-A (-BS) *3
Power Source		460V, 3-Phase, 60Hz	208V / 230V, 3-Phase, 60Hz / 460V, 3-Phase, 60Hz		
Capacity (Nominal) *1	Cooling Btu/h Capacity	144,000	168,000	192,000	216,000
	Cooling kW Power Input	10.31	12.8 *3	15.61 *3	18.22 *3
	Cooling A Current Input	14.3 *3	39.4 / 35.7 / 17.8 *3	48.1 / 43.5 / 15.61 *3	56.1 / 50.8 / 25.4 *3
	Heating Btu/h Capacity	160,000	188,000	215,000	243,000
	Heating kW Power Input	12.54 *3	14.91 *3	17.2 *3	19.89 *3
	Heating A Current Input	17.4	45.9 / 41.5 / 20.7 *3	53.9 / 47.9 / 23.9 *3	61.3 / 55.4 / 27.7 *3
Fan	Type X Quantity	Refer to: PURY-P72YKMU-A (-BS)	Refer to: PURY-P72TKMU-A (-BS) / PURY-P96TKMU-A (-BS) PURY-P72YKMU-A (-BS) / PURY-P96YKMU-A (-BS)	Refer to: PURY-P96TKMU-A (-BS) PURY-P96YKMU-A (-BS)	Refer to: PURY-P96TKMU-A (-BS) / PURY-P120TKMU-A (-BS) PURY-P96YKMU-A (-BS) / PURY-P120YKMU-A (-BS)
	Airflow Rate CFM				
	External Static Pressure				
Compressor	Type X Quantity				
	Operating Range	15% to 100%	7% to 100%	8% to 100%	
	Crankcase Heater W	Refer to: PURY-P72YKMU-A (-BS)	Refer to: PURY-P72TKMU-A (-BS) / PURY-P96TKMU-A (-BS) PURY-P72YKMU-A (-BS) / PURY-P96YKMU-A (-BS)	Refer to: PURY-P96TKMU-A (-BS) PURY-P96YKMU-A (-BS)	Refer to: PURY-P96TKMU-A (-BS) / PURY-P120TKMU-A (-BS) PURY-P96YKMU-A (-BS) / PURY-P120YKMU-A (-BS)
	Lubricant				
Refrigerant	Type				
External Finish					
Dimensions H x W x D	Height In.				
	Width In.				
	Depth In.				
Net Weight	Pounds				
Sound Pressure Level (As Measured in an Anechoic Room)	dB(A)	61.0	61.0		62.5
Protection Devices	High Pressure Protection	High pressure sensor, High pressure switch			
	Inverter Circuit (Compressor / Fan)	Over-current protection			
	Fan Motor	Thermal switch			
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed) In.	7/8			1-1/8
	Gas (Low Pressure) (Brazed) In.	1-1/8			
Indoor Unit Connectable	Total Capacity	50% to 150% of outdoor unit capacity			
	Model / Quantity	P06-P96 / 1 to 36	P06-P96 / 1 to 42	P06-P96 / 1 to 48	P06-P96 / 2 to 50 *4
Operating Temperature Range	Cooling D.B.	**Outdoor: 23° to 115° F			
	Heating W.B.	Outdoor: -13° to 60° F			
Efficiency Ratings *5					
EER (Ducted/Non-Ducted) *5		12.0 / 14.4	12.1 / 12.9	11.6 / 11.9	11.4 / 11.3
IEER (Ducted/Non-Ducted) *5		18.8 / 20.6	19.4 / 19.1	19.3 / 18.2	18.7 / 18.3
COP (Ducted/Non-Ducted) *5		3.54 / 3.65	3.63 / 3.52	3.64 / 3.47	3.54 / 3.43
SCHE (Ducted/Non-Ducted) *5		21.8 / 24.0	20.0 / 22.6	17.4 / 21.81	17.1 / 20.11

Notes:

*1 Rating Conditions:
Cooling | Indoor: 80°F (26.7°C) DB / 67°F (19°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°C) WB.

*2 Twinning Kit is required for combining two individual outdoor units in the field for PURY-P-T(Y)SKMU combined systems.

*3 Each individual outdoor unit requires a separate electrical connection. Reference electrical data for each individual outdoor unit.

*4 Maximum connectable number of branch pipes is 48.

*5 Efficiency values based on AHRI 1230 test method.

**** Extended ambient cooling operation range down to -10° F DB Low Ambient Kit required.**

In systems with considerably long piping runs, the outdoor units may exhibit slightly louder than normal sound pressure levels when in heating mode.

The outdoor twinning kit (low pressure) should be connected to the low pressure side of the outdoor unit. If the connected units are different capacities, the outdoor twinning kit (low pressure) should be installed in the unit with the largest capacity.

-BS indicates Seacoast Protection option.

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.

PURY-P***T(Y)SKMU

Model Name			208V /230V	PURY-P240TSKMU (-BS) *2 With 2 PURY-P120TKMU (-BS) *3	PURY-P264TKMU (-BS) *2 With 1 PURY-P120TKMU (-BS) and 1 PURY-P144TKMU (-BS) *3	PURY-P288TSKMU (-BS) *2 With 2 PURY-P144TKMU (-BS) *3
			460V	PURY-P240YSKMU (-BS) *2 With 2 PURY-P120YKMU (-BS) *3	PURY-P264YKMU (-BS) *2 With 1 PURY-P120YKMU (-BS)* and 1 PURY-P144YKMU (-BS) *3	PURY-P288YSKMU (-BS) * *2 With 2 PURY-P144YKMU (-BS) *3
Power Source				208 / 230V 3-Phase, 60Hz / 460V, 3-Phase, 60Hz		
Capacity (Nominal) *1	Cooling	Btu/h Capacity		240,000	264,000	288,000
	Heating	Btu/h Capacity		270,000	295,000	320,000
Fan	Type X Quantity			Refer to: PURY-P120TKMU (-BS) / PURY-P120YKMU (-BS)	Refer to: PURY-P120TKMU (-BS) / PURY-P144TKMU (-BS) / PURY-P120YKMU (-BS) / PURY-P144YKMU (-BS)	Refer to: PURY-P144TKMU (-BS) / PURY-P144YKMU (-BS)
	Airflow Rate	CFM				
	External Static Pressure					
Compressor	Type X Quantity					
	Operating Range			7% to 100%		
	Crankcase Heater	W		Refer to: PURY-P120TKMU (-BS) / PURY-P120YKMU (-BS)	Refer to: PURY-P120TKMU (-BS) / PURY-P144TKMU (-BS) / PURY-P120YKMU (-BS) / PURY-P144YKMU (-BS)	Refer to: PURY-P144TKMU (-BS) / PURY-P144YKMU (-BS)
	Lubricant					
Refrigerant	Type					
External Finish						
Dimensions H x W x D	Height	In.				
	Width	In.				
	Depth	In.				
Net Weight		Pounds				
Sound Pressure Level (As Measured in an Anechoic Room)		dB(A)		63.0	63.5	64.0
Protection Devices	High Pressure Protection			High pressure sensor, High pressure switch		
	Inverter Circuit (Compressor / Fan)			Over-current protection		
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	In.		1-1/8		
	Gas (Low Pressure) (Brazed)	In.		1-3/8		
Indoor Unit Connectable	Total Capacity			50% to 150% of outdoor unit capacity		
	Model / Quantity			P06-P96 / 2 to 50 *4		
Operating Temperature Range	Cooling	D.B.		**Outdoor: 23° to 115° F		
	Heating	W.B.		Outdoor: -13° to 60° F		
Efficiency Ratings* 5						
EER (Ducted/Non-Ducted) *5				10.9 / 10.9	11.0 / 11.0	11.2 / 11.3
IEER (Ducted/Non-Ducted) *5				17.8 / 18.5	17.7 / 18.4	17.6 / 18.6
COP (Ducted/Non-Ducted) *5				3.38 / 3.42	3.4 / 3.25	3.41 / 3.20
SCHE (Ducted/Non-Ducted) *5				16.5 / 18.6	17.3 / 18.7	18.2 / 19.0

Notes:
*1 Rating Conditions:
Cooling | Indoor: 80°F (26.7°C) DB / 67°F (19°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°C) WB.
*2 Twinning Kit is required for combining two individual outdoor units in the field for PURY-P-T(Y)SKMU combined systems.
*3 Each individual outdoor unit requires a separate electrical connection. Reference electrical data for each individual outdoor unit.
*4 Maximum connectable no. of branch pipes is 48.
*5 Efficiency values based on AHRI 1230 test method.
* 264 and 288 require use -HA, BC controller
** Extended ambient cooling operation range down to -10° F DB Low Ambient Kit required.

Notes:
In systems with considerably long piping runs, the outdoor units may exhibit slightly louder than normal sound pressure levels when in heating mode.
The outdoor twinning kit (low pressure) should be connected to the low pressure side of the outdoor unit. If the connected units are different capacities, the outdoor twinning kit (low pressure) should be installed in the unit with the largest capacity.
-BS indicates Seacoast Protection option.

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.

PURY-HP***T(S)KMU

Model Name		208/230V	PURY-HP72TKMU-H	PURY-HP96TKMU-H	PURY-HP144TSKMU-H *2 With 2 PURY-HP72TKMU-H*3	PURY-HP192TSKMU-H *2 With 2 PURY-HP96TKMU-H *3
		460V	PURY-HP72YKMU	PURY-HP96YKMU	PURY-HP144YSKMU *2 With 2 PURY-HP72YKMU *3	PURY-HP192YSKMU *2 With 2 PURY-HP96YKMU *3
Electrical Power Requirements	Voltage, Phase, Hertz		208 / 230V, 3-phase, 60Hz 460V, 3-phase, 60Hz			
Nominal Cooling	Capacity *1	Btu/h	72,000	96,000	144,000	192,000
Nominal Heating	Capacity *1	Btu/h	80,000	108,000	160,000	215,000
Electrical Supply	MCA	A	44 / 40 26	60 / 54 32	Refer to: PURY-HP72TKMU-H PURY-HP72YKMU	Refer to: PURY-HP96TKMU-H PURY-HP96YKMU
	Recommended Fuse/Breaker Size	A	50 30	65 35		
	Maximum Fuse Size	A	60 30	80 35		
Fan	Type x Quantity		Propeller Fan x 1			
	Airflow Rate	CFM	6,200			
Compressor	Operating Range	Cooling	30% to 100%	23% to 100%	15% to 100%;	12% to 100%;
		Heating	15% to 100%	13% to 100%	7% to 100%	6% to 100%
	Type x Quantity		Inverter-driven Scroll Hermetic x 1		Refer to: PURY-HP72TKMU-H PURY-HP72YKMU	Refer to: PURY-HP96TKMU-H PURY-HP96YKMU
	Lubricant		MEL32			
Refrigerant	Type		R410A			
External Finish			Pre-coated galvanized steel sheet			
Dimensions	Height	In.	64-31/32			
	Width		48-1/16			
	Depth		29-5/32			
Net Weight		Lbs.	552 574	552 576		
Sound Pressure Levels		dB(A)	58		61	
Protection Devices	High-pressure		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit (COMP./FAN)		Over-current protection			
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	In.	5/8	3/4	7/8	
	Gas (Low Pressure) (Brazed)		3/4	7/8	1-1/8	
Indoor Unit Connectable	Total Capacity		50 to 150% of Outdoor Unit Capacity			
	Model / Quantity *4		P06 to P96 / 1 to 18	P06 to P96 / 1 to 24	P06 ~ P96 / 1 to 36	P06 ~ P96 / 1 to 48
Operating Temperature Range	Cooling (Outdoor) **		23 ~ 115° F (-5 ~ +46° C) D.B.			
	Heating (Outdoor)		-13 ~ +60° F (-25 ~ +15.5° C) W.B.			
Efficiency Ratings (Ducted / Non-Ducted) *5	EER		12.9 / 13.0	11.4 / 12.5	12.5 / 12.6	11.1 / 12.1
	IEER		17.2 / 18.4	16.5 / 17.1	16.7 / 17.9	16.1 / 16.6
	COP		3.61 / 3.55	3.46 / 3.44	3.47 / 3.41	3.32 / 3.31
	SCHE *2		22.7 / 22.6	17.4 / 22.0	22.1 / 22.0	16.9 / 21.4

Notes:

*1 Rating Conditions:
Cooling | Indoor: 80°F (26.7°C) DB / 67°F (19°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°C) WB.

*2 Twinning Kit is required for combining two individual outdoor units in the field for PURY-HP-T(Y)SKMU combined systems.

*3 Each individual outdoor unit requires a separate electrical connection. Reference electrical data for each individual outdoor unit.

*4 Maximum connectable number of branch pipes is 48.

*5 Efficiency values based on AHRI 1230 test method.

**** Low Ambient Kit is required for extended ambient cooling operation range down to -10° F DB.**

In systems with considerably long piping runs, the outdoor units may exhibit slightly louder than normal sound pressure levels when in heating mode.

The outdoor twinning kit (low pressure) should be connected to the low pressure side of the outdoor unit. If the connected units are different capacities, the outdoor twinning kit (low pressure) should be installed in the unit with the largest capacity.

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.

CMB-P-NU-G1 (Single BC)

Model Name			CMB-P105NU-G1	CMB-P106NU-G1	CMB-P108NU-G1	CMB-P1010NU-G1	CMB-P1013NU-G1	CMB-P1016NU-G1
Number of Branches			5	6	8	10	13	16
Power Source			208 / 230V, 1-phase, 60 Hz					
Power Input	Cooling	W	73	86	112	138	178	217
	Heating	W	33	40	53	66	86	106
Current (208/230V)	Cooling	A	0.35 / 0.32	0.41 / 0.37	0.54 / 0.49	0.66 / 0.60	0.86 / 0.77	1.04 / 0.94
	Heating	A	0.16 / 0.14	0.19 / 0.17	0.25 / 0.23	0.32 / 0.29	0.41 / 0.37	0.51 / 0.46
External Finish			Unit: Galvanized steel plate; Drain pan: Pre-coated galvanized sheets plus powder coating					
Dimensions	Height	Inches	11-3/16					
	Width	Inches	25-17/32				43-1/4	
	Depth	Inches	17-1/32					
Net Weight		Pounds	72	76	84	94	126	138
Refrigerant Pipe Dimensions	To Indoor Unit *1	Liquid Pipe (In.)	3/8 Brazed					
		Gas Pipe (In.)	5/8 (Brazed)					
Max. Connected Capacity for All Branches		Btu/h	189,000	189,000	189,000	189,000	189,000	189,000
Indoor Unit Capacity Connectable to One Branch			54,000 Btu/h or less per branch					
Drain Pipe			O.D. 1-1/4"					

Notes:
*1 BC controller includes reducers for all branches. 5/8" flare to 1/2" braze, 3/8" flare to 1/4" braze.

Specifications are subject to change without notice.

CMB-P-NU-GA1/HA1 (Main BC)

Model Name			CMB-P1013NU-GA1	CMB-P108NU-HA1	CMB-P1010NU-HA1	CMB-P1016NU-HA1
Number of Branches			13	8	10	16
Power Source			208 / 230V, 1-phase, 60 Hz			
Power Input	Cooling	W	178	152 / 196	183 / 236	274 / 353
	Heating	W	86	76 / 98	92 / 118	137 / 177
Current (208/230V)	Cooling	A	0.86 / 0.77	0.074 / 0.086	0.88 / 1.03	1.32 / 1.54
	Heating	A	0.41 / 0.37	0.37 / 0.43	0.45 / 0.52	0.66 / 0.77
External Finish			Unit: Galvanized steel plate; Drain pan: Pre-coated galvanized sheets plus powder coating			
Dimensions	Height	Inches	11-13/32	11-7/16		
	Width	Inches	43-3/4			
	Depth	Inches	20-1/2			
Net Weight		Pounds	148	124	131	172
Refrigerant Pipe Dimensions	To Indoor Unit *1	Liquid Pipe (In.)	3/8 Brazed			
		Gas Pipe (In.)	5/8 (Brazed)			
Max. connected capacity for all branches		Btu/h	360,000	360,000	360,000	432,000
Max. Connected Capacity to Sub BC Controller(s) *2		Btu/h	126,000	126,000	126,000	126,000
Indoor Unit Capacity Connectable to One Branch			54,000 Btu/h or less per branch			
Drain Pipe			O.D. 1-1/4"			

Notes:
*1 BC controller includes reducers for all branches. 5/8" flare to 1/2" braze, 3/8" flare to 1/4" braze.

*2 If two sub BC controllers are connected and at least one is a CMB-P1016NU-HB, the maximum connected capacity is 168,000 Btu/h.

Specifications are subject to change without notice.

CMB-P-NU-GB1/HB1 (Sub BC)

Model Name			CMB-P104NU-GB1	CMB-P108NU-GB1	CMB-P1016NU-HB1
Number of Branches			4	8	16
Power Source			208 / 230V, 1-phase, 60 Hz		
Power Input	Cooling	W	53	106	314
	Heating	W	27	53	157
Current (208/230V)	Cooling	A	0.25 / 0.23	0.51 / 0.46	1.17 / 1.37
	Heating	A	0.13 / 0.12	0.25 / 0.23	0.59 / 0.69
External Finish			Unit: Galvanized steel plate; Drain pan: Pre-coated galvanized sheets plus powder coating		
Dimensions	Height	Inches	11-3/16		
	Width	Inches	25-17/32		43-1/4
	Depth	Inches	17-1/32		
Net Weight		Pounds	62	82	136
Refrigerant Pipe Dimensions	To Indoor Unit *1	Liquid Pipe (In.)	3/8 Brazed		
		Gas Pipe (In.)	5/8 Brazed		
Max. Connected Capacity for All Branches		Btu/h	126,000	126,000	126,000
Indoor Unit Capacity Connectable to One Branch			54,000 Btu/h or less per branch		
Drain Pipe			O.D. 1-1/4"		

Notes:
*1 BC controller includes reducers for all branches. 5/8" flare to 1/2" braze, 3/8" flare to 1/4" braze.

Specifications are subject to change without notice.

Refrigerant Line Sizes from Main BC Controller to Sub BC Controller(s)

	Liquid (High Pressure)	Gas (Low Pressure)	Liquid Pipe
Total downstream capacity < 72,000 Btu/h (nominal cooling capacity)	5/8" (Brazed)	3/4" (Brazed)	3/8" (Brazed)
Total downstream capacity between 73,000 - 108,000 Btu/h (nominal cooling capacity)	3/4" (Brazed)	7/8" (Brazed)	3/8" (Brazed)
Total downstream capacity between 109,000 - 126,000 Btu/h (nominal cooling capacity)	3/4" (Brazed)	1-1/8" (Brazed)	1/2" (Brazed)
Total downstream capacity between 127,000 - 144,000 Btu/h (nominal cooling capacity)	7/8" (Brazed)	1-1/8" (Brazed)	1/2" (Brazed)
Total downstream capacity between 145,000 - 168,000 Btu/h (nominal cooling capacity)	7/8" (Brazed)	1-1/8" (Brazed)	5/8" (Brazed)

Specifications are subject to change without notice.

DIAMONDBACK™

BV-Series Ball Valves

UL LISTED 891NUS REFRIGERANT VALVE

Model numbers:

BV14BBSI/ BV38BBSI/ BV12BBSI/ BV58BBSI

- Size available: 1/4"; 1/2", 3/8"; 5/8".
- Fully factory assembled.
- Furnace brazed and pressure tested.
- Each ball valve is equipped with 1/4" Schrader® Valve for refrigerant service.
- Design working pressure: 700 PSIG.
- Temperature range: -40˚ F to +325˚ F (-40˚ C to +149˚ C).
- Forged and machined brass unibody designed with forged brass seal cap.
- Polytetrafluoroethylene (PTFE) seals and gaskets (no synthetic O-rings).
- Seal cap design permits valve operation without removal of seal cap.
- One year limited materials and workmanship warranty on Ball Valves.

Schrader® is a registered trademark of Schrader-Bridgeport Inc.

- Full Port Design.
- 800 PSIG Rated.
- R-410A Compatible.
- Brazed Connections.

*Ball valves come with an insulation piece.

Part Number	SAE Braze	A	B	C	D	E
BV14BBSI	1/4"	6.5	3.06	1.81	1.81	1.42
BV38BBSI	3/8"	6.5	3.06	1.81	1.81	1.42
BV12BBSI	1/2"	6.5	3.06	1.81	1.81	1.42
BV58BBSI	5/8"	6.5	3.06	1.81	1.81	1.42

PUHY-P**T(Y)SKMU

Model Name		208V/ 230V	PUHY-P72TKMU (-BS)	PUHY-P96TKMU (-BS)	PUHY-P120TKMU (-BS)	PUHY-P144TKMU (-BS)
		460V	PUHY-P72YKMU (-BS)	PUHY-P96YKMU (-BS)	PUHY-P120YKMU (-BS)	PUHY-P144YKMU (-BS)
Power Source			208 / 230V, 3-Phase, 60Hz 460V, 3-Phase, 60Hz			
Capacity (Nominal) *1	Cooling	Btu/h Capacity	72,000	96,000	120,000	144,000
	Heating	Btu/h Capacity	80,000	108,000	135,000	160,000
Electrical Supply	MCA	A	25 / 23 12	34 / 31 15	45 / 42 20	53 / 49 24
	Recommended Fuse Size	A	30 15	35 20	50 25	60 25
Fan	Type X Quantity		Propeller Fan x 1		Propeller Fan x 2	
	Airflow Rate	CFM	6,200		11,300	
	External Static Pressure		Selectable; 0, 0.12 or 0.24" W.G.; factory set to 0" W.G.			
Compressor	Type X Quantity		INVERTER-driven Scroll Hermetic x 1			
	Operating Range		15% to 100%	16% to 100%	15% to 100%	14% to 100%
	Lubricant		MEL32			
Refrigerant	Type		R410A			
External Finish			Pre-coated galvanized steel sheet (Plus Powder Coating for -BS type) <Munsell 5Y 8/1 or Similar>			
Dimensions H X W X D	Height	In.	64-31/32			
	Width	In.	36-1/4	48-1/16	68-29/32	
	Depth	In.	29-5/32			
Net Weight		Pounds	430 463	532 558	697 726	
Sound Pressure Level (As Measured in an Anechoic Room)		dB(A)	58.0	58.0	60.0	61.0
Protection Devices	High Pressure Protection		High pressure sensor, High pressure switch			
	Inverter Circuit (Compressor / Fan)		Over-current protection			
	Fan Motor		Thermal switch			
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	In.	3/8	3/8 (1/2", length to first joint ≥ 295')	3/8 (1/2", length to first joint ≥ 131')	1/2
	Gas (Low Pressure) (Brazed)	In.	7/8		1-1/8	
Indoor Unit Connectable	Total Capacity		50% to 130% of outdoor unit capacity			
	Model / Quantity		P06 - P96 / 1 to 15	P06 - P96 / 1 to 20	P06 - P96 / 1 to 26	P06 - P96 / 1 to 31
Operating Temperature Range	Cooling	D.B.	**Outdoor: 23° to 115° F			
	Heating	W.B.	Outdoor: -13° to 60° F			
Efficiency Ratings (Ducted / Non-Ducted) *2	EER		13.0 / 14.2	12.6 / 13.7	12.5 / 12.7	11.6 / 11.8
	IEER		19.8 / 21.3	19.7 / 20.7	19.1 / 19.1	19.3 / 20.2
	COP		3.83 / 4.19	3.95 / 4.22	3.66 / 3.83	3.56 / 3.72

Notes:

*1 Rating Conditions:
Cooling | Indoor: 80°F (26.7°C) DB / 67°F (19°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°C) WB.

*2 Efficiency values based on AHRI 1230 test method.

** Low Ambient Kit is required for extended ambient cooling operation range down to -10° F DB.

-BS indicates Seacoast Protection option.

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.

PUHY-P**T(Y)SKMU

Model Name			208V/ 230V		PUHY-P168TSKMU (-BS) *2 With 1 PUHY-P72TKMU (-BS) and 1 PUHY-P96TKMU (-BS) *3	PUHY-P192TSKMU (-BS) *2 With 1 PUHY-P72TKMU (-BS) and 1 PUHY-P120TKMU (-BS)	PUHY-P216TSKMU (-BS) *2 With 1 PUHY-P96TKMU (-BS) and 1 PUHY-P120TKMU (-BS) *3	PUHY-P240TSKMU (-BS) *2 With 2 PUHY-P120TKMU -BS) *3
			460V	PUHY-P144YSKMU (-BS) *2 With 2 PUHY-P72YKMU (-BS) *3	PUHY-P168YSKMU (-BS) *2 With 1 PUHY-P72YKMU (-BS) and 1 PUHY-P96YKMU (-BS) *3	PUHY-P192YSKMU (-BS) *2 With 1 PUHY-P72YKMU (-BS) and 1 PUHY-P120YKMU-A (-BS) *3	PUHY-P216YSKMU (-BS) *2 With 1 PUHY-P96YKMU (-BS) and 1 PUHY-P120YKMU (-BS) *3	PUHY-P240YSKMU (-BS) *2 With 2 PUHY-P120YKMU (-BS) *3
Power Source				460V, 3-Phase, 60Hz	208 / 230V, 3-Phase, 60Hz 460V, 3-Phase, 60Hz			
Capacity (Nominal) *1	Cooling	Btu/h Capacity		144,000	168,000	192,000	216,000	240,000
	Heating	Btu/h Capacity		160,000	188,000	215,000	243,000	270,000
Fan	Type X Quantity			Refer to: PUHY-P72YKMU (-BS	Refer to: PUHY-P72TKMU (-BS) / PUHY-P96TKMU (-BS)	Refer to: PUHY-P72TKMU (-BS) / PUHY-P120TKMU (-BS)	Refer to: PUHY-P96TKMU (-BS) / PUHY-P120TKMU (-BS)	Refer to: PUHY-P120TKMU (-BS)
	Airflow Rate	CFM						
	External Static Pressure							
Compressor	Type X Quantity				PUHY-P72YKMU (-BS) / PUHY-P96YKMU (-BS)		PUHY-P96YKMU (-BS) / PUHY-P120YKMU (-BS)	PUHY-P120YKMU (-BS)
	Operating Range			9% to 100%	6% to 100%	6% to 100%	8% to 100%	8% to 100%
	Crankcase Heater	W		Refer to: PUHY-P72YKMU (-BS)	Refer to: PUHY-P72TKMU (-BS) / PUHY-P96TKMU (-BS)	Refer to: PUHY-P72TKMU (-BS) / PUHY-P120TKMU (-BS)	Refer to: PUHY-P96TKMU (-BS) / PUHY-P120TKMU (-BS)	Refer to: PUHY-P120TKMU (-BS)
	Lubricant				PUHY-P72YKMU (-BS) / PUHY-P96YKMU (-BS)		PUHY-P96YKMU (-BS) / PUHY-P120YKMU (-BS)	PUHY-P120YKMU (-BS)
Refrigerant	Type							
External Finish								
Dimensions H X W X D	Height	In.						
	Width	In.						
	Depth	In.						
Net Weight		Pounds						
Sound Pressure Level (As Measured in an Anechoic Room)		dB(A)		61.0	61.0	62.5	62.5	63.0
Protection Devices	High Pressure Protection			High pressure sensor, High pressure switch				
	Inverter Circuit (Compressor / Fan)			Over-current protection				
	Fan Motor			Thermal switch				
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	In.		1/2	5/8			
	Gas (Low Pressure) (Brazed)	In.		1-1/8				
Indoor Unit Connectable	Total Capacity			50% to 130% of outdoor unit capacity				
	Model / Quantity			P06 - P96 / 1 to 31	P06 - P96 / 1 to 36	P06 - P96 / 1 to 41	P06 - P96 / 2 to 46	P06 - P96 / 2 to 50
Operating Temperature Range	Cooling	D.B.		**Outdoor: 23 to 115° F				
	Heating	W.B.		Outdoor: -13 to 60° F				
Efficiency Ratings (Ducted / Non-Ducted) *4	EER			12.8 / 13.2	12.6 / 12.9	12.4 / 12.5	12.3 / 12.3	12.1 / 12.0
	IEER			19.3 / 20.3	19.6 / 19.7	18.9 / 19.1	18.9 / 18.6	18.6 / 18.1
	COP			3.79 / 3.95	3.78 / 3.83	3.63 / 3.61	3.65 / 3.56	3.55 / 3.53

Notes:

*1 Rating Conditions:
Cooling | Indoor: 80°F (26.7°C) DB / 67°F (19°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°C) WB.

*2 Twinning Kit is required for combining two or three individual outdoor units in the field for PUHY-P(T)YSKMU combined systems.

*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.

** Low Ambient Kit is required for extended ambient cooling operation range down to -10° F DB.

-BS indicates Seacoast Protection option.

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.

PUHY-P**T(Y)SKMU

Model Name			PUHY-P264TSKMU (-BS) *2	PUHY-P288TSKMU (-BS) *2	PUHY-P312TSKMU (-BS) *2	PUHY-P336TSKMU (-BS) *2	PUHY-P360TSKMU (-BS) *2
	208V/ 230V		With 2 PUHY-P72TKMU (-BS) and 1 PUHY-P120TKMU (-BS) *3	With 1 PUHY-P72TKMU (-BS) 1 PUHY-P96TKMU (-BS) and PUHY-P120TKMU (-BS) *3	With 1 PUHY-P72TKMU (-BS) and 2 PUHY-P120TKMU (-BS) *3	With 1 PUHY-P96TKMU (-BS) and 2 PUHY-P120TKMU (-BS) *3	With 3 PUHY-P120TKMU (-BS) *3
	460V		PUHY-P264YSKMU (-BS) *2	PUHY-P288YSKMU (-BS) *2	PUHY-P312YSKMU (-BS) *2	PUHY-P336YSKMU (-BS) *2	PUHY-P360YSKMU (-BS) *2
			With 2 PUHY-P72YKMU (-BS) and 1 PUHY-P120YKMU (-BS) *3	With 1 PUHY-P72YKMU (-BS) 1 PUHY-P96YKMU (-BS) and 1 PUHY-P120YKMU (-BS) *3	With 1 PUHY-P72YKMU (-BS) and 2 PUHY-P120YKMU (-BS) *3	With 1 PUHY-P96YKMU (-BS) and 2 PUHY-P120YKMU (-BS) *3	With 3 PUHY-P120YKMU (-BS) *3
Power Source			208 / 230V, 3-Phase, 60Hz 460V, 3-Phase, 60Hz				
Capacity (Nominal) *1	Cooling	Btu/h Capacity	264,000	288,000	312,000	336,000	360,000
	Heating	Btu/h Capacity	295,000	323,000	350,000	378,000	405,000
Fan	Type X Quantity		Refer to: PUHY-P72TKMU (-BS) / PUHY-P120TKMU (-BS) PUHY-P72YKMU (-BS) / PUHY-P120YKMU (-BS)	Refer to: PUHY-P72TKMU (-BS) / PUHY-P96TKMU (-BS) / PUHY-P120TKMU (-BS PUHY-P72YKMU (-BS) / PUHY-P96YKMU (-BS) / PUHY-P120YKMU (-BS)	Refer to: PUHY-P72TKMU (-BS) / PUHY-P120TKMU (-BS) PUHY-P72YKMU (-BS) / PUHY-P120YKMU (-BS)	Refer to: PUHY-P96TKMU (-BS) / PUHY-P120TKMU (-BS) PUHY-P96YKMU (-BS) / PUHY-P120YKMU (-BS)	Refer to: PUHY-P120TKMU (-BS) PUHY-P120YKMU (-BS)
	Airflow Rate	CFM					
	External Static Pressure						
Compressor	Type X Quantity						
	Operating Range		5% to 100%	4% to 100%	4% to 100%	5% to 100%	5% to 100%
	Crankcase Heater	W	Refer to: PUHY-P72TKMU (-BS) / PUHY-P120TKMU (-BS) PUHY-P72YKMU (-BS) / PUHY-P120YKMU (-BS)	Refer to: PUHY-P72TKMU (-BS) / PUHY-P96TKMU (-BS) / PUHY-P120TKMU (-BS) PUHY-P72YKMU (-BS) / PUHY-P96YKMU (-BS) / PUHY-P120YKMU (-BS)	Refer to: PUHY-P72TKMU (-BS) / PUHY-P120TKMU (-BS) PUHY-P72YKMU (-BS) / PUHY-P120YKMU (-BS)	Refer to: PUHY-P96TKMU (-BS) / PUHY-P120TKMU (-BS) PUHY-P96YKMU (-BS) / PUHY-P120YKMU (-BS)	Refer to: PUHY-P120TKMU (-BS) PUHY-P120YKMU (-BS)
	Lubricant						
Refrigerant	Type						
External Finish							
Dimensions H X W X D	Height	In.					
	Width	In.					
	Depth	In.					
Net Weight		Pounds					
Sound Pressure Level (As Measured in an Anechoic Room)		dB(A)	63.5	64.0	64.5		65.0
Protection Devices	High Pressure Protection		High pressure sensor, High pressure switch				
	Inverter Circuit (Compressor / Fan)		Over-current protection				
	Fan Motor		Thermal switch				
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	In.	3/4				
	Gas (Low Pressure) (Brazed)	In.	1-3/8			1-5/8	
Indoor Unit Connectable	Total Capacity		50 to 130% of outdoor unit capacity				
	Model / Quantity		P06 - P96 / 2 to 50				
Operating Temperature Range	Cooling	D.B.	*Outdoor: 23° to 115° F				
	Heating	W.B.	Outdoor: -13° to 60° F				
Efficiency Ratings (Ducted / Non-Ducted) *4	EER		12.5 / 12.5	12.4 / 12.4	12.1 / 12.1	11.9 / 12.0	11.7 / 11.8
	IEER		19.0 / 18.7	19.0 / 18.7	18.4 / 18.1	18.2 / 17.8	17.8 / 17.2
	COP		3.68 / 3.6	3.68 / 3.59	3.54 / 3.45	3.5 / 3.36	3.39 / 3.22

Notes:

*1 Rating Conditions:
Cooling | Indoor: 80°F (26.7°C) DB / 67°F (19°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°C) WB.

*2 Twinning Kit is required for combining two or three individual outdoor units in the field for PUHY-P(T)YSKMU combined systems.

*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.

** Low Ambient Kit is required for extended ambient cooling operation range down to -10° F DB.

-BS indicates Seacoast Protection option.

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.

PUHY-HP**T(S)JMU

Model Name			PUHY-HP72TJMU (-BS)	PUHY-HP96TJMU (-BS)	PUHY-HP144TSJMU (-BS) *2	PUHY-HP192TSJMU (-BS) *2
					With 2 PUHY-HP72TJMU (-BS)	With 2 PUHY-HP96TJMU (BS)
Power Source			208/230V, 3-Phase, 60Hz			
Capacity *1	Cooling	Btu/h	72,000	96,000	144,000	192,000
	Heating	Btu/h	80,000	108,000	160,000	216,000
Electrical Supply	MCA	A	59 / 54	74 / 68	59 + 59 / 54 + 54 *3	74 + 74 / 68 + 68 *3
	Recommended Fuse/Breaker Size	A	60 / 60	75 / 75	60 + 60 *3	75 + 75 *3
	Maximum Fuse Size	A	100 / 90	120 / 110	100 + 100 / 90 + 90 *3	120 + 120 / 110 + 110 *3
Fan	Type x Quantity		Propeller Fan x 1		Refer to PUHY-HP72TJMU (-BS) Specifications	Refer to PUHY-HP96TJMU (-BS) Specifications
	Airflow Rate	CFM	6,180	7,950		
	Motor Output	kW	0.92			
Compressor	Operating Range	Cooling	30% to 100%	23% to 100%	15% to 100%	12% to 100%
		Heating	16% to 100%	13% to 100%	8% to 100%	6% to 100%
	Type		Inverter Scroll Hermetic		Refer to PUHY-HP72TJMU (-BS) Specifications	Refer to PUHY-HP96TJMU (-BS) Specifications
	Motor Output	kW	5.3	6.7		
	Crankcase Heater	W	45			
	Lubricant		MEL32			
Refrigerant	Type		R410A			
External Finish			Pre-coated Galvanized Sheets (Plus Powder-coating for -BS types) <Munsell No. 5Y 8/1 or Similar>			
Dimensions	Height	In.	65			
	Width	In.	36-1/4	48-1/16		
	Depth	In.	29-15/16			
Net Weight		Lbs.	497	585		
Sound Pressure Level (As Measured in an Anechoic Room)		dB(A)	56 (61 in Heating at -5° F Outdoor Temperature)	57 (62 in Heating at -5° F Outdoor Temperature)	59 (64 in Heating at -5° F Outdoor Temperature)	60 (65 in Heating at -5° F Outdoor Temperature)
Protection Devices	High Pressure Protection		High-pressure Sensor, High-pressure Switch			
	Compressor/Fan		Overheat Protection/Thermal Switch			
	Inverter		Overheat and Overcurrent Protection			
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	In.	1/2		5/8	
	Gas (Low Pressure) (Brazed)	In.	3/4	7/8	1-1/8	
Indoor Unit	Total Capacity		50 to 130% of Outdoor Unit Capacity			
	Quantity		P06-P72/1-15	P06-P96/1-20	P06-P96/1-31	P06-P96/1-41
Operating Temperature Range	Cooling		**Outdoor: 23° F D.B. to 109° F D.B.			
	Heating		Outdoor: -13° F W.B. to +60° F W.B.			
Efficiency Ratings (Ducted / Non-Ducted) *4	EER		11.70 / 11.30	11.35 / 11.30	11.30 / 10.90	10.90 / 10.90
	IEER		16.80 / 16.20	16.00 / 15.40	14.40 / 13.85	13.60 / 13.10
	COP		3.66 / 3.35	3.39 / 3.35	3.56 / 3.25	3.29 / 3.25

Notes:

*1 Rating Conditions:
Cooling | Indoor: 80°F (26.7°C) DB / 67°F (19°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°C) WB.

*2 Twinning Kit CMY-Y100VBK2 is required for combining two individual outdoor units in the field for PUHY-HP-TSJMU combined systems.

*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.

** For details on extended ambient cooling operation range down to 0° FDB see Low Ambient Cooling section.

-BS indicates Seacoast Protection option.

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.

PUMY-P**NKMU1

Model Name			PUMY-P36NKMU1(-BS)	PUMY-P48NKMU1(-BS)	PUMY-P60NKMU1(-BS)
Power Source			208 / 230V, 1-Phase, 60Hz		
Capacity *1	Cooling	Btu/h	36,000	48,000	60,000
	Heating	Btu/h	42,000	54,000	66,000
Electrical Supply	MCA	A	31	31	36
	Maximum Fuse Size	A	44		42
Fan	Type x Quantity		Propeller Fan x 2		
	Airflow Rate	CFM	3,885		4,879
	Motor Output	kW	0.074		0.2
Compressor	Type		INVERTER-driven Scroll Hermetic		
	Operating Range	Cooling	29% to 100%	23% to 100%	36% to 100%
		Heating	24% to 100%	22% to 100%	22% to 100%
	Motor Output	kW	2.8	3.3	4.1
	Lubricant		FV50S		
Refrigerant			R410A		
External Finish			Galvanized Sheets (plus Powder Coating for -BS Model) Munsell 3Y 7.8/1.1		
Dimensions	Height	In.	52-11/16		
	Width	In.	41-11/32		
	Depth	In.	13 (+1)		
Net Weight		Pounds	269		306
Sound Pressure Levels (As Measured in an Anechoic Room)		dB(A)	49 / 53	51 / 54	58 / 59
Protection Devices	High Pressure Protection		High Pressure Switch		
	Compressor/Fan		Discharge Thermo and Over-current Protection		Compressor Thermo/Over-current Protection
	Inverter		Over-current/Overheat Protection		Over-current/Voltage Protection
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Flare)	In.	3/8		
	Gas (Low Pressure) (Flare)	In.	5/8		3/4
Indoor Unit	Total Capacity		50 - 130% of Outdoor Unit Capacity		
	Quantity		P06-36/1-7	P06-P54/1-10	P06-P72/1-12
Operating Temperature Range	Cooling		Outdoor: 5° to 115° F D.B. *3 *4		
	Heating		Outdoor: -13° to +59° F W.B.		
Efficiency Ratings *2					
EER (Ducted / Non-Ducted) *2			12.6 / 14.2	11.3 / 12.6	11.1 / 12.5
SEER (Ducted / Non-Ducted) *2			15.6 / 21.0	16.5 / 20.2	17.0/18.6
COP (Ducted / Non-Ducted) *2			3.60/ 3.90	3.30 / 3.80	3.7/3.5
HSPF (Ducted / Non-Ducted) *2			10.5 / 11.5	11.0 / 11.7	10.7/11.4

Notes:
*1 Rating 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 (21.1˚ C) DB; Outdoor: 47˚ F (8.3˚ C) DB / 43˚ F (6.1˚ C) WB.
*2 Efficiencies values based in AHRI 210/240 test method.
*3 When using Wind Baffles [WB-PA3], the minimum operating range is 5° F.
Without Wind Baffles, the minimum operating range is 23° F.
*4 When connecting PKFY-P06NBMU/P08NHMU,PFFY-P06/08/12NEMU or PFFY-P06/08/12NRMU indoor units, the minimum operating range is 50° F.

-BS indicates Seacoast Protection option.

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.

PQRY-P**T(Y)LMU-A

Model Name			208/230V	PQRY-P72TLMU-A	PQRY-P96TLMU-A	PQRY-P120TLMU-A	PQRY-P144TLMU-A
			460V	PQRY-P72YLMU-A	PQRY-P96YLMU-A	PQRY-P120YLMU-A	PQRY-P144YLMU-A
Power Source				208 / 230V, 3-Phase, 60Hz 460V, 3-Phase, 60Hz			
Capacity (Nominal) *1	Cooling	Btu/h		72,000	96,000	120,000	144,000
	Heating	Btu/h		69,000	92,000	114,000	137,000
Electrical Supply	MCA	A		13 / 12	19 / 17	29 / 26	35 / 32
				6	9	13	16
	MOP	A		20 / 20	30 / 25	50 / 45	60 / 50
				15	15	20	25
Compressor	Type x Quantity			INVERTER-driven Scroll Hermetic x 1			
	Operating Range			24 % to 100%	18 % to 100%	14 % to 100%	19 % to 100%
	Lubricant			MEL32			
Circulating Water	Water Flow Rate	GPM		25.4	25.4	25.4	31.7
	Pressure Drop	Ft. (psi)		8 (3.48)	8 (3.48)	8 (3.48)	15 (6.38)
	Max Water Pressure 290 PSI / 2 MPA						
Refrigerant	Type			R410A			
External Finish				Galvanized steel sheets			
Dimensions	Height	In.		43-5/16			57-1/8
	Width	In.		34-11/16			
	Depth	In.		21-11/16			
Net Weight		Pounds		380			479
				404			505
Sound Pressure Level (As Measured in an Anechoic Room)		dB(A)		46	48	54	
Protection Devices	High Pressure Protection			High pressure sensor, High pressure switch			
	Compressor			Over-heat protection, Over-current protection			
	Inverter			Over-heat protection			
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	In.		5/8	3/4		7/8
	Gas (Low Pressure) (Brazed)	In.		3/4	7/8		1-1/8
Indoor Unit Connectable	Total Capacity			50 to 150% of water-source unit capacity			
	Model / Quantity			P06~P96/1~18	P06~P96/1~24	P06~P96/1~30	P06~P96/1~36
Operating Temperature Range	Cooling	W.B.		Indoor: 59 to 75° F			
	Heating	D.B.		Indoor: 50 to 113° F			
Inlet Water Temperature Range	Cooling			50 to 113° F			
	Heating			50 to 113° F			
Efficiency Ratings (Ducted / Non-Ducted) *2	EER			16.7 / 20.1	15.2 / 18.7	13.4 / 15.6	12.1 / 15.4
	IEER			24.2 / 28.1	25.0 / 30.4	23.2 / 29.0	19.5 / 23.1
	COP			5.51 / 6.05	5.77 / 5.93	5.51 / 5.60	4.90 / 5.50

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 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.

PQRY-P**T(Y)LMU-A

Model Name		208/230V	PQRY-P168TLMU-A	PQRY-P192TLMU-A	PQRY-P216TLMU-A	PQRY-P240TLMU-A
		460V	PQRY-P168YLMU-A	PQRY-P192YLMU-A	PQRY-P216YLMU-A	PQRY-P240YLMU-A
Power Source						
Capacity (Nominal) *1	Cooling	Btu/h	168,000	192,000	216,000	240,000
	Heating	Btu/h	161,000	183,000	206,000	228,000
Electrical Supply	MCA	A	44 / 39	54 / 49	69 / 63	79 / 71
			20	25	31	36
	MOP	A	70 / 70	90 / 80	110 / 110	125 / 125
			35	40	50	60
Compressor	Type x Quantity		INVERTER-driven Scroll Hermetic x 1			
	Operating Range		16 % to 100%	14 % to 100%	13 % to 100%	12 % to 100%
	Lubricant		MEL32			
Circulating Water	Water Flow Rate	GPM	31.7	31.7	50.7	50.7
	Pressure Drop	Ft. (psi)	15 (6.38)	15 (6.38)	15 (6.53)	15 (6.53)
	Max Water Pressure 290 PSI / 2 MPA					
Refrigerant	Type		R410A			
External Finish			Galvanized steel sheets			
Dimensions	Height	In.	57-1/8			
	Width	In.	34-11/16			
	Depth	In.	21-11/16			
Net Weight		Pounds	380		556	
			404		571	
Sound Pressure Level (As Measured in an Anechoic Room)		dB(A)	56	58		
Protection Devices	High Pressure Protection		High pressure sensor, High pressure switch			
	Compressor		Over-heat protection, Over-current protection			
	Inverter		Over-heat protection			
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	In.	7/8		7/8 (1-1/8 for the part that exceeds 65 m)	
	Gas (Low Pressure) (Brazed)	In.	1-1/8			1-3/8
Indoor Unit Connectable	Total Capacity		50 to 150% of water-source unit capacity			
	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 (Connectable branch pipe number is max. 48.)
Operating Temperature Range	Cooling	W.B.	Indoor: 59 to 75° F			
	Heating	D.B.	Indoor: 50 to 113° F			
Inlet Water Temperature Range	Cooling		50 to 113° F			
	Heating		50 to 113° F			
Efficiency Ratings (Ducted / Non-Ducted) *2	EER		15.1 / 18.6	11.9 / 13.5	14.8 / 17.1	11.5 / 12.4
	IEER		22.5 / 26.1	18.0 / 21.8	23.6 / 25.8	18.4 / 21.7
	COP		5.29 / 5.94	4.73 / 5.39	5.57 / 5.67	4.60 / 5.15

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 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.

PQRY-P**T(Y)SLMU-A

Model Name			208/230V	PQRY-P144TSLMU-A *2 With 2 PQRY-P72TLMU-A *3	PQRY-P168TSLMU-A *2 With 1 PQRY-P72TLMU-A and 1 PQRY-P96TLMU-A *3	PQRY-P192TSLMU-A *2 With 2 PQRY-P96TLMU-A *3	PQRY-P216TSLMU-A *2 With 1 PQRY-P96TLMU-A and 1 PQRY-P120TLMU-A *3	PQRY-P240TSLMU-A *2 With 2 PQRY-P120TLMU-A *3
			460V	PQRY-P144YSLMU-A *2 With 2 PQRY-P72YLMU-A *3	PQRY-P168YSLMU-A *2 With 1 PQRY-P72YLMU-A and 1 PQRY-P96YLMU-A *3	PQRY-P192YSLMU-A *2 With 2 PQRY-P96YLMU-A *3	PQRY-P216YSLMU-A *2 With 1 PQRY-P96YLMU-A and 1 PQRY-P120YLMU-A *3	PQRY-P240YSLMU-A *2 With 2 PQRY-P120YLMU-A *3
Power Source				208 / 230V, 3-Phase, 60Hz 460V, 3-Phase, 60Hz				
Capacity (Nominal) *1	Cooling	Btu/h		144,000	168,000	192,000	216,000	240,000
	Heating	Btu/h		160,000	188,000	215,000	243,000	270,000
Compressor	Operating Range			12 % to 100%	10 % to 100%	9 % to 100%	8 % to 100%	7 % to 100%
	Type x Quantity			Refer to: PQRY-P72TLMU-A PQRY-P72YLMU-A	Refer to: PQRY-P72TLMU-A PQRY-P96TLMU-A PQRY-P72YLMU-A PQRY-P96YLMU-A	Refer to: PQRY-P96TLMU-A PQRY-P96YLMU-A	Refer to: PQRY-P96TLMU-A PQRY-P120TLMU-A PQRY-P96YLMU-A PQRY-P120YLMU-A	Refer to: PQRY-P120TLMU-A PQRY-P120YLMU-A
	Lubricant							
Circulating Water	Water Flow Rate	GPM (L/s)						
	Pressure Drop	Ft. (psi)						
	Operation Volume Range	GPM (L/m)						
Refrigerant	Type							
External Finish								
Dimensions	Height	In.						
	Width	In.						
	Depth	In.						
Net Weight		Pounds						
Sound Pressure Level (As Measured in an Anechoic Room)		dB(A)		50.0	51.0	52.0	53.0	54.0
Protection Devices	High Pressure Protection			High pressure sensor, High pressure switch				
	Compressor / Fan			Overheat protection / Thermal switch				
	Inverter			Overheat and Overcurrent Protection				
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	In.		7/8			7/8 (1-1/8 for the part that exceeds 65 m)	
	Gas (Low Pressure) (Brazed)	In.		1-1/8				1-3/8
Indoor Unit Connectable	Total Capacity			50 to 150% of outdoor unit capacity				
	Model / Quantity			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 Temperature Range	Cooling			50 to 113° F				
	Heating			50 to 113° F				
Efficiency Ratings (Ducted / Non-Ducted) *4	EER			14.4 / 16.2	11.2 / 10.9	13.5 / 14.9	10.8 / 11.0	12.5 / 13.8
	IEER			24.4 / 26.4	19.0 / 21.2	23.5 / 25.9	18.8 / 21.2	22.4 / 25.7
	COP			5.77 / 5.53	4.75 / 5.23	5.64 / 5.40	4.52 / 5.05	5.46 / 5.32

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.

*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.

PQRY-P**T(Y)SLMU-A

Model Name			208/230V	PQRY-P288TSLMU-A *2 With 2 PQRY-P144TLMU-A *3	PQRY-P312TSLMU-A *2 With 1 PQRY-P72TLMU-A and 1 PQRY-P96TLMU-A *3	PQRY-P336TSLMU-A *2 With 2 PQRY-P168TLMU-A *3
			460V	PQRY-P288YSLMU-A *2 With 2 PQRY-P144YLMU-A *3	PQRY-P312YSLMU-A *2 With 1 PQRY-P72YLMU-A and 1 PQRY-P96YLMU-A *3	PQRY-P336YSLMU-A *2 With 2 PQRY-P168YLMU-A *3
Power Source				208 / 230V, 3-Phase, 60Hz 460V, 3-Phase, 60Hz		
Capacity (Nominal) *1	Cooling	Btu/h		288,000	312,000	336,000
	Heating	Btu/h		275,000	297,000	320,000
Compressor	Operating Range			9 % to 100%	9 % to 100%	8 % to 100%
	Type x Quantity			Refer to: PQRY-P144TLMU-A PQRY-P144YLMU-A	Refer to: PQRY-P168TLMU-A PQRY-P144TLMU-A PQRY-P168YLMU-A PQRY-P144YLMU-A	Refer to: PQRY-P168TLMU-A PQRY-P168YLMU-A
	Lubricant					
Circulating Water	Water Flow Rate	GPM (L/s)				
	Pressure Drop	Ft. (psi)				
	Operation Volume Range	GPM (L/m)				
Refrigerant	Type					
External Finish						
Dimensions	Height	In.				
	Width	In.				
	Depth	In.				
Net Weight		Pounds				
Sound Pressure Level (As Measured in an Anechoic Room)		dB(A)		57	58	59
Protection Devices	High Pressure Protection			High pressure sensor, High pressure switch		
	Compressor / Fan			Overheat protection / Thermal switch		
	Inverter			Overheat and Overcurrent Protection		
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	In.		1-1/8		
	Gas (Low Pressure) (Brazed)	In.		1-3/8		
Indoor Unit Connectable	Total Capacity			50 to 150% of outdoor unit capacity		
	Model / Quantity			P06~P96/2~50 (Connectable branch pipe number is max. 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 Temperature Range	Cooling			50 to 113° F		
	Heating			50 to 113° F		
Efficiency Ratings (Ducted / Non-Ducted) *4	EER			11.4 / 13.7	11.2 / 13.0	11.1 / 12.3
	IEER			18.5 / 20.6	17.6 / 20.4	16.8 / 20.1
	COP			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.

*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)LMU-A

Model Name			208/230V	PQHY-P72TLMU-A	PQHY-P96TLMU-A	PQHY-P120TLMU-A	PQHY-P144TLMU-A
			460V	PQHY-P72YLMU-A	PQHY-P96YLMU-A	PQHY-P120YLMU-A	PQHY-P144YLMU-A
Power Source				208 / 230V, 3-Phase, 60Hz 460V, 3-Phase, 60Hz			
Capacity (Nominal) *1	Cooling	Btu/h		72,000	96,000	120,000	144,000
	Heating	Btu/h		69,000	92,000	114,000	137,000
Electrical Supply	MCA	A		13 / 12	19 / 17	29 / 26	35 / 32
				6	9	13	16
	MOP	A		20 / 20	30 / 25	50 / 45	60 / 50
				15	15	20	25
Compressor	Type x Quantity			INVERTER-driven Scroll Hermetic x 1			
	Operating Range			24 % to 100%	18 % to 100%	14 % to 100%	19 % to 100%
	Lubricant			MEL32			
Circulating Water	Water Flow Rate	GPM		25.4	25.4	25.4	31.7
	Pressure Drop	Ft. (psi)		8 (3.48)	8 (3.48)	8 (3.48)	15 (6.38)
	Max Water Pressure 290 PSI / 2 MPA						
Refrigerant	Type			R410A			
External Finish				Galvanized steel sheets			
Dimensions	Height	In.		43-5/16			57-1/8
	Width	In.		34-11/16			
	Depth	In.		21-11/16			
Net Weight		Pounds		384			481
				408			508
Sound Pressure Level (As Measured in an Anechoic Room)		dB(A)		46	48	54	
Protection Devices	High Pressure Protection			High pressure sensor, High pressure switch			
	Compressor			Over-heat protection, Over-current protection			
	Inverter			Over-heat protection			
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	In.		3/8	3/8 (1/2, total length >= 90 m)		1/2
	Gas (Low Pressure) (Brazed)	In.		3/4	7/8		1-1/8
Indoor Unit Connectable	Total Capacity			50 to 150% of water-source unit capacity			
	Model / Quantity			P06~P96/1~15	P06~P96/1~20	P06~P96/1~26	P06~P96/1~31
Operating Temperature Range	Cooling	W.B.		Indoor: 59 to 75° F			
	Heating	D.B.		Indoor: 50 to 113° F			
Inlet Water Temperature Range	Cooling			50 to 113° F			
	Heating			50 to 113° F			
Efficiency Ratings (Ducted / Non-Ducted) *2	EER			17.4 / 20.7	15.3 / 19.4	13.5 / 15.9	12.1 / 15.6
	IEER			24.2 / 28.1	25.0 / 30.4	23.2 / 29.0	19.5 / 23.1
	COP			5.62 / 6.15	5.80 / 6.02	5.55 / 5.66	4.92 / 5.56

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 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)LMU-A

Model Name		208/230V	PQHY-P168TLMU-A	PQHY-P192TLMU-A	PQHY-P216TLMU-A	PQHY-P240TLMU-A
		460V	PQHY-P168YLMU-A	PQHY-P192YLMU-A	PQHY-P216YLMU-A	PQHY-P240YLMU-A
Power Source						
Capacity (Nominal) *1	Cooling	Btu/h	168,000	192,000	216,000	240,000
	Heating	Btu/h	161,000	183,000	206,000	228,000
Electrical Supply	MCA	A	44 / 39	54 / 49	69 / 63	79 / 71
			20	25	31	36
	MOP	A	70 / 70	90 / 80	110 / 110	125 / 125
			35	40	50	60
Compressor	Type x Quantity		INVERTER-driven Scroll Hermetic x 1			
	Operating Range		16 % to 100%	14 % to 100%	13 % to 100%	12 % to 100%
	Lubricant		MEL32			
Circulating Water	Water Flow Rate	GPM	31.7	31.7	50.7	50.7
	Pressure Drop	Ft. (psi)	15 (6.38)	15 (6.38)	15 (6.53)	15 (6.53)
	Max Water Pressure 290 PSI / 2 MPA					
Refrigerant	Type		R410A			
External Finish			Galvanized steel sheets			
Dimensions	Height	In.	57-1/8			
	Width	In.	34-11/16			
	Depth	In.	21-11/16			
Net Weight		Pounds	481		558	
			508		574	
Sound Pressure Level (As Measured in an Anechoic Room)		dB(A)	56	58		
Protection Devices	High Pressure Protection		High pressure sensor, High pressure switch			
	Compressor		Over-heat protection, Over-current protection			
	Inverter		Over-heat protection			
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	In.	5/8			
	Gas (Low Pressure) (Brazed)	In.	1-1/8			
Indoor Unit Connectable	Total Capacity		50 to 150% of water-source unit capacity			
	Model / Quantity		P06~P96/1~36	P06~P96/1~41	P06~P96/2~46	P06~P96/2~50
Operating Temperature Range	Cooling	W.B.	Indoor: 59 to 75° F			
	Heating	D.B.	Indoor: 50 to 113° F			
Inlet Water Temperature Range	Cooling		50 to 113° F			
	Heating		50 to 113° F			
Efficiency Ratings (Ducted / Non-Ducted) *2	EER		15.2 / 19.0	12.0 / 13.6	15.0 / 17.3	11.5 / 12.5
	IEER		22.5 / 26.1	18.0 / 21.8	23.6 / 25.8	18.4 / 21.7
	COP		5.32 / 6.01	4.76 / 5.43	5.61 / 5.72	4.62 / 5.19

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 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-A

Model Name			208/230V	PQHY-P144TSLMU-A *2 With 2 PQHY-P72TLMU-A *3	PQHY-P168TSLMU-A *2 With 1 PQHY-P72TLMU-A and 1 PQHY-P96TLMU-A *3	PQHY-P192TSLMU-A *2 With 2 PQHY-P96TLMU-A *3	PQHY-P216TSLMU-A *2 With 1 PQHY-P96TLMU-A and 1 PQHY-P120TLMU-A *3	PQRY-P240TSLMU-A *2 With 2 PQHY-P120TLMU-A *3
			460V	PQHY-P144YSLMU-A *2 With 2 PQHY-P72YLMU-A *3	PQHY-P168YSLMU-A *2 With 1 PQHY-P72YLMU-A and 1 PQHY-P96YLMU-A *3	PQHY-P192YSLMU-A *2 With 2 PQHY-P96YLMU-A *3	PQHY-P216YSLMU-A *2 With 1 PQHY-P96YLMU-A and 1 PQHY-P120YLMU-A *3	PQHY-P240YSLMU-A *2 With 2 PQHY-P120YLMU-A *3
Power Source				208 / 230V, 3-Phase, 60Hz 460V, 3-Phase, 60Hz				
Capacity (Nominal) *1	Cooling	Btu/h		144,000	168,000	192,000	216,000	240,000
	Heating	Btu/h		160,000	188,000	215,000	243,000	270,000
Compressor	Operating Range			12 % to 100%	10 % to 100%	9 % to 100%	8 % to 100%	7 % to 100%
	Type x Quantity			Refer to:	Refer to:	Refer to:	Refer to:	Refer to:
	Lubricant			PQHY-P72TLMU-A	PQHY-P72TLMU-A PQHY-P96TLMU-A	PQHY-P96TLMU-A	PQHY-P96TLMU-A PQHY-P120TLMU-A	PQHY-P120TLMU-A
Circulating Water	Water Flow Rate	GPM (L/s)						
	Pressure Drop	Ft. (psi)						
	Operation Volume Range	GPM (L/m)						
Refrigerant	Type			PQHY-P72YLMU-A	PQHY-P72YLMU-A PQHY-P96YLMU-A	PQHY-P96YLMU-A	PQRY-P96YLMU-A PQRY-P120YLMU-A	PQHY-P120YLMU-A
External Finish								
Dimensions	Height	In.						
	Width	In.						
	Depth	In.						
Net Weight		Pounds						
Sound Pressure Level (As Measured in an Anechoic Room)		dB(A)		49	50	51	55	57
Protection Devices	High Pressure Protection			High pressure sensor, High pressure switch				
	Compressor / Fan			Overheat protection / Thermal switch				
	Inverter			Overheat and Overcurrent Protection				
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	In.		1/2	5/8			
	Gas (Low Pressure) (Brazed)	In.		1-1/8				
Indoor Unit Connectable	Total Capacity			50 to 150% of outdoor unit capacity				
	Model / Quantity			P06~P96/1~31	P06~P96/1~36	P06~P96/1~41	P06~P96/2~46	P06~P96/2~50
Inlet Water Temperature Range	Cooling			50 to 113° F				
	Heating			50 to 113° F				
Efficiency Ratings (Ducted / Non-Ducted) *4	EER			14.5 / 16.4	11.3 / 10.9	13.6 / 15.0	10.8 / 11.0	12.5 / 13.9
	IEER			24.4 / 26.4	19.0 / 21.2	23.5 / 25.9	18.8 / 21.2	22.4 / 25.7
	COP			5.80 / 5.57	4.77 / 5.26	5.68 / 5.43	4.54 / 5.08	5.49 / 5.35

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.

*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-A

Model Name			208/230V	PQHY-P288TSLMU-A *2 With 2 PQHY-P144TLMU-A *3	PQHY-P312TSLMU-A *2 With 1 PQHY-P144TLMU-A and 1 PQHY-P168TLMU-A *3	PQHY-P336TSLMU-A *2 With 2 PQHY-P168TLMU-A *3	PQHY-P360TSLMU-A *2 With 1 PQHY-P168TLMU-A and 1 PQHY-P192TLMU-A *3
			460V	PQHY-P288YSLMU-A *2 With 2 PQHY-P144YLMU-A *3	PQHY-P312YSLMU-A *2 With 1 PQHY-P144YLMU-A and 1 PQHY-P168YLMU-A *3	PQHY-P336YSLMU-A *2 With 2 PQHY-P168YLMU-A *3	PQHY-P360YSLMU-A *2 With 1 PQHY-P168YLMU-A and 1 PQHY-P192YLMU-A *3
Power Source				208 / 230V, 3-Phase, 60Hz 460V, 3-Phase, 60Hz			
Capacity (Nominal) *1	Cooling	Btu/h		288,000	312,000	336,000	360,000
	Heating	Btu/h		323,000	350,000	378,000	405,000
Compressor	Operating Range			9 % to 100%	9 % to 100%	8 % to 100%	8 % to 100%
	Type x Quantity			Refer to:	Refer to:	Refer to:	Refer to:
	Lubricant			PQHY-P144TLMU-A	PQHY-P72TLMU-A PQHY-P96TLMU-A	PQHY-P168TLMU-A	PQHY-P168TLMU-A PQHY-P192TLMU-A
Circulating Water	Water Flow Rate	GPM (L/s)					
	Pressure Drop	Ft. (psi)					
	Operation Volume Range	GPM (L/m)					
Refrigerant	Type			PQHY-P144YLMU-A	PQHY-P72YLMU-A PQHY-P96YLMU-A	PQHY-P168YLMU-A	PQRY-P168YLMU-A PQRY-P192YLMU-A
External Finish							
Dimensions	Height	In.					
	Width	In.					
	Depth	In.					
Net Weight		Pounds					
Sound Pressure Level (As Measured in an Anechoic Room)		dB(A)		57	58	59	60
Protection Devices	High Pressure Protection			High pressure sensor, High pressure switch			
	Compressor / Fan			Overheat protection / Thermal switch			
	Inverter			Overheat and Overcurrent Protection			
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	In.		3/4			
	Gas (Low Pressure) (Brazed)	In.		1-3/8		1-5/8	
Indoor Unit Connectable	Total Capacity			50 to 150% of outdoor unit capacity			
	Model / Quantity			P06~P96/2~50	P06~P96/2~50	P06~P96/2~50	P06~P96/2~50
Inlet Water Temperature Range	Cooling			50 to 113° F			
	Heating			50 to 113° F			
Efficiency Ratings (Ducted / Non-Ducted) *4	EER			11.4 / 13.8	11.2 / 13.0	11.1 / 12.3	11.2 / 12.1
	IEER			18.5 / 20.6	17.6 / 20.4	16.8 / 20.1	17.5 / 20.3
	COP			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).

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

*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.

PWFY-P**NMU-E-AU/BU

Model Name				PWFY-P36NMU-E-AU	PWFY-P72NMU-E-AU	PWFY-P36NMU-E-BU
Power Source				208 / 230V, 1-phase, 60Hz		
Cooling Capacity *1			Btu/h	36,200	72,000	-
Heating Capacity *1			Btu/h	39,900	79,800	39,900
Power Consumption	Cooling		kW	0.015		N/A
	Heating		kW	0.015		2.48
Current	Cooling		A	0.072 / 0.065		N/A
	Heating		A	0.072 / 0.065		12.30 /11.12
External Finish				Galvanized-steel Sheet		
Dimensions	Height		In.	31-1/2		
	Width		In.	17-3/4		
	Depth		In.	11-13/16		
Net Weight	Unit		Pounds	78	84	133
Operating Outdoor Temperature Range		Cooling		23° F to 115° F D.B. (PURY/PUHY/PURY-HP) 23° F to 109° F D.B. (PUHY-HP)		-
		Heating		-13° F to 90° F W.B. (PURY) -13° F to 60° F W.B. (PUHY) -13° F to 60° F W.B. (PUHY-HP)		-4 ° F to 90° F W.B.
Circulating Water Operation Volume Range			GPM (L/m)	4.8-9.4 (18-36)	7.9-18.9 (30-72)	2.6-9.6 (10-36)
Circulating Water Design Pressure			MPa (psi)	1 (145)		
Water Piping Dimensions	Inlet		In.	3/4 FPT	1 FPT	3/4 FPT
	Outlet		In.	3/4 FPT	1 FPT	3/4 FPT
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)		In.	3/8	3/8	3/8
	Gas (Low Pressure) (Brazed)		In.	5/8	3/4	5/8
Drainpipe Dimensions (O.D.)			In.	1-1/4		
Sound Pressure Levels			dB(A)	29		44
Connectable Outdoor Units				PURY-P72~288T/Y(S)KMU (-BS) PURY-HP72~192T/Y(S)KMU (-BS) PUHY-P72~360T/Y(S)KMU (-BS) PURY-P72-336T/Y(S)LMU-A (-BS)PQRY-P72-336T/Y(S)LMU-A (-BS) PUHY-P72-360T/Y(S)LMU-A (-BS)PQHY-P72-360T/Y(S)LMU-A (-BS)		PURY-P72~288T/Y(S)KMU (-BS) PURY-HP72~192T/Y(S)KMU (-BS) PURY-P72-336T/Y(S)LMU-A (-BS) PQRY-P72-336T/Y(S)LMU-A (-BS)

Notes:
*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° F (65°C) Water flow rate: 9.2 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 m^3/h))

Note: Consult Application Note 2014 - Designing with PWFY for additional design assistance.

Note: The design water pressure drop and flow. Note that the pressure drop doesn't include strainers.

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(H,K)MU-E2

Model Name			PKFY-P06NBMU-E2	PKFY-P08NHMU-E2	PKFY-P12NHMU-E2	PKFY-P15NHMU-E2	PKFY-P18NHMU-E2	PKFY-P24NK-MU-E2.TH	PKFY-P30NK-MU-E2.TH
Power Source			208 / 230V, 1-Phase, 60Hz						
Cooling Capacity		Btu/h *1	6,000	8,000	12,000	15,000	18,000	24,000	30,000
Heating Capacity		Btu/h *1	6,700	9,000	13,500	17,000	20,000	27,000	34,000
Power Consumption	Cooling	W	8	30				70	
	Heating	W	30	30				70	
Current	Cooling	A	.15	.30				0.50	
	Heating	A	.15	.30				0.50	
External Finish	Munsell No.		1.0Y 9.2 / 0.2						
Dimensions	Height	In.	11-5/8					14-3/8	
	Width	In.	32-1/8	35-3/8				46-1/16	
	Depth	In.	8-7/8	9-13/16				11-5/8	
Net Weight	Unit	Pounds	22	29				46	
Heat Exchanger			Cross Fin (Aluminum Plate Fin and Copper Tube)						
Fan	Type x Quantity		Line Flow Fan x 1						
	Airflow Rate *2	CFM	170 - 180 - 200 - 210	320-370-413			320-370-425	570-920	710-920
	Motor Type		Single-phase Induction Motor	Direct-driven DC Motor					
Air Filter			Polypropylene Honeycomb						
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Flare)	In.	1/4					3/8	
	Gas (Low Pressure) (Flare)	In.	1/2					5/8	
Drain Pipe Dimension (I.D.)		In.	5/8						
Sound Pressure Levels *2		dB(A)	32 - 33 - 35 - 36	34 - 39 - 43			36 - 41 - 45	39 - 49	43 - 49

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.

*2 Airflow Rate/Sound Pressure Levels are at Lo-Mid1-Mid2-Hi, Lo-Mid-Hi, or Lo-Hi.

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-P**NEMU-E

Model Name			PLFY-P08NEMU-E	PLFY-P12NEMU-E	PLFY-P15NEMU-E	PLFY-P18NEMU-E
Power Source			208 / 230V, 1-Phase, 60Hz			
Cooling Capacity		Btu/h *1	8,000	12,000	15,000	18,000
Heating Capacity		Btu/h *1	9,000	13,500	17,000	20,000
Power Consumption	Cooling	W	20			
	Heating	W	20			
Current	Cooling	A	0.25	0.26	0.29	
	Heating	A	0.20	0.21	0.24	
External Finish Color (Munsell No.)			Grille 6.4Y 8.9/0.4			
Dimensions	Height	In.	10-3/16			
	Width	In.	33-3/32			
	Depth	In.	33-3/32			
Net Weight *2	Unit/Panel	Pounds	42/11			
Heat Exchanger			Cross Fin (Aluminum Plate Fin and Copper Tube)			
Fan	Type x Quantity		Turbo Fan x 1			
	Airflow Rate *3	CFM	424 - 459 - 494 - 530	459 - 494 - 530 - 565	459 - 494 - 530 - 600	459 - 494 - 565 - 636
	Motor Type		DC Motor			
	Motor Output	W	50			
Air Filter			Polypropylene Honeycomb			
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Flare)	In.	1/4			
	Gas (Low Pressure) (Flare)	In.	1/2			
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)	27 - 29 - 30 - 31	27 - 29 - 30 - 31	28 - 29 - 30 - 31	28 - 30 - 31 - 32

Model Name			PLFY-P24NEMU-E	PLFY-P30NEMU-E	PLFY-P36NEMU-E	PLFY-P48NEMU-E
Power Source			208 / 230, 1-phase, 60Hz			
Cooling Capacity		Btu/h *1	24,000	30,000	36,000	48,000
Heating Capacity		Btu/h *1	34,000	40,000	54,000	20,000
Power Consumption	Cooling	W	40	50	80	100
	Heating	W	40	50	80	100
Current	Cooling	A	0.41	0.56	0.90	0.99
	Heating	A	0.36	0.51	0.85	0.94
External Finish Color (Munsell No.)			Grille 6.4Y 8.9/0.4			
Dimensions	Height	In.	11-3/4			
	Width	In.	33-3/32			
	Depth	In.	33-3/32			
Net Weight *2	Unit/Panel	Pounds	46/11	46/11	51/11	55/11
Heat Exchanger			Cross Fin (Aluminum Plate Fin and Copper Tube)			
Fan	Type x Quantity		Turbo Fan x 1			
	Airflow Rate *3	CFM	494 - 565 - 671 - 777	494 - 600 - 742 - 883	706 - 883 - 1060 - 1201	742 - 918 - 1060 - 1236
	Motor Type		DC Motor			
	Motor Output	W	50			120
Air Filter			Polypropylene Honeycomb			
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Flare)	In.	3/8			
	Gas (Low Pressure) (Flare)	In.	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 - 31 - 34 - 37	28 - 32 - 35 - 38	35 - 38 - 41 - 44	36 - 39 - 42 - 45

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.**

***3 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 are subject to change.

PLFY-P**NCMU-ER2

Model Name			PLFY-P08NCMU-ER2	PLFY-P12NCMU-ER2	PLFY-P15NCMU-ER2
Power Source			208 / 230V, 1-phase, 60Hz		
Cooling Capacity		Btu/h *1	8,000	12,000	15,000
Heating Capacity		Btu/h *1	9,000	13,500	17,000
Power Consumption	Cooling	W	50	60	
	Heating	W	50	60	
Current	Cooling	A	0.23	0.28	
	Heating	A	0.23	0.28	
External Finish (Munsell No.)			Grille: White (6.4Y 8.9/0.4)		
Dimensions	Height	In.	8-3/16		
	Width	In.	22-7/16		
	Depth	In.	22-7/16		
Net Weight *2	Unit/Panel	Pounds	34/7	37/7	
Heat Exchanger			Cross Fin (Aluminum Plate Fin and Copper Tube)		
Fan	Type x Quantity		Turbo Fan x 1		
	Airflow Rate *3	CFM	280-320-350	320-350-390	
	Motor Type		Single-phase Induction Motor		
Air Filter			Polypropylene Honeycomb		
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Flare)	In.	1/4		
	Gas (Low Pressure) (Flare)	In.	1/2		
Condensate Lift Mechanism (Standard)		In.	19-11/16		
Drain Pipe Dimension (O.D.)		In.	1-1/4		
Sound Pressure Levels (As Measured in an Anechoic Room) *3	(Low-Mid-High)	dB(A)	29-32-38	30-34-39	31-35-40

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.

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
	Heating	W	40			50
Current	Cooling	A	0.20		0.21	0.26
	Heating	A	0.20		0.21	0.26
External Finish Color (Munsell No.)			Grille: 6.4Y 8.9/0.4			
Dimensions	Height	In.	9-1/16			
	Width	In.	31-31/32			
	Depth	In.	15-9/16			
Net Weight	Unit	Pounds	31			
Heat Exchanger			Cross Fin			
Fan	Type x Quantity		Line flow fan x 1			
	Airflow Rate *2	CFM	230-254-283-307	258-283-304-328	258-283-304-328	272-307-343-378
	Motor Type		DC Brushless Motor			
Air Filter			Polypropylene Honeycomb			
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Flare)	In.	1/4			
	Gas (Low Pressure) (Flare)	In.	1/2			
Condensate Lift Mechanism (Standard)		In.	23-5/8			
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.

PCFY-P**NKMU-ER1

Model Name			PCFY-P15NKMU-ER1	PCFY-P24NKMU-ER1	PCFY-P30NKMU-ER1	PCFY-P36NKMU-ER1
Power Source			208 / 230V, 1 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 Consumption	Cooling	W	30	40	90	110
	Heating	W	30	40	90	110
Current	Cooling	A	0.35	0.41	0.83	0.97
	Heating	A	0.35	0.41	0.83	0.97
External Finish	Munsell No.		6.4Y 8.9 / 0.4			
Dimensions	Height	In.	9-1/16			
	Width	In.	37-13/16	50-3/8	63	
	Depth	In.	26-3/4			
Net Weight	Unit	Pounds	53	71	79	84
Heat Exchanger			Cross Fin (Aluminum Plate Fin and Copper Tube)			
Fan	Type x quantity		Sirocco Fan x 2	Sirocco Fan x 3	Sirocco Fan x 4	
	Airflow Rate *2	CFM	353-388-424-459	494-530-565-636	703-777-883-989	742-847-953-1,095
	Motor Type		Direct-driven DC Motor			
Air Filter			Polypropylene Honeycomb			
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Flare)	In.	1/4	3/8		
	Gas (Low Pressure) (Flare)	In.	1/2	5/8		
Drain Pipe Dimension (O.D.)		In.	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 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**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 / 230V, 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 Consumption	Cooling	W	50 / 50	60 / 60	70 / 70		90 / 90	120 / 120
	Heating	W	30 / 30	40 / 40	50 / 50		70 / 70	100 / 100
Current	Cooling	A	0.42 / 0.41	0.51 / 0.49	0.56 / 0.53	0.57 / 0.55	0.74 / 0.70	0.98 / 0.93
	Heating	A	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			Galvanized Steel Sheets					
Dimensions	Height	In.	7-7/8					
	Width	In.	31-1/8			39		46-7/8
	Depth	In.	27-9/16					
Net Weight	Unit	Pounds	42		46	54		62
Heat Exchanger			Cross Fin (Aluminum Plate Fin and Copper Tube)					
Fan	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
	External Static Pressure *4	In. W.G.	0.02-0.06-0.14-0.20					
	Motor Type		DC Brushless Motor					
Air Filter			Polypropylene Honeycomb Fabric (washable)					
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	In.	1/4					3/8
	Gas (Low Pressure) (Brazed)	In.	1/2					5/8
Condensate Lift Mechanism (standard)		In.	21-4/16					
Drain Pipe Dimensions (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:

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

*2 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.

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

*4 External static pressure is factory set to 0.06" W.G.

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**NMAU-E3

Model Name			PEFY-P06NMAU-E3	PEFY-P08NMAU-E3	PEFY-P12NMAU-E3	PEFY-P15NMAU-E3	PEFY-P18NMAU-E3	PEFY-P24NMAU-E3
Power Source			208 / 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 Consumption	Cooling	W	60		90		110	170
	Heating	W	40		70		90	150
Current	Cooling	A	0.56 / 0.52		0.66 / 0.62	0.67 / 0.63	0.77 / 0.73	1.31 / 1.27
	Heating	A	0.45 / 0.41		0.55 / 0.51	0.56 / 0.52	0.66 / 0.62	1.20 / 1.16
External Finish			Galvanized Steel Sheet					
Dimensions	Height	In.	9-7/8					
	Width	In.	27-9/16			35-7/16		43-5/16
	Depth	In.	28-7/8					
Net Weight	Unit	Pounds	49			58		67
Heat Exchanger			Cross Fin (Aluminum plate fin and copper tube)					
Fan	Type x Quantity		Sirocco Fan x 1					Sirocco Fan x 2
	Airflow Rate *2	CFM	212-265-300		265-318-371	353-424-494	424-512-600	618-742-883
	External Static Pressure	In. W.G.	0.14 - 0.20 - 0.28 - 0.40 - 0.60					
	Motor Type		Direct-driven DC Brushless Motor					
Air Filter			Polypropylene Honeycomb					
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	In.	1/4					3/8
	Gas (Low Pressure) (Brazed)	In.	1/2					5/8
Drain Pipe Dimension (O.D.)		In.	1-1/4"					
Sound Pressure Levels	Lo-Mid-Hi	dB(A)	26 - 28 - 29		28 - 30 - 34		26 - 28 - 29	

Model Name			PEFY-P27NMAU-E3	PEFY-P30NMAU-E3	PEFY-P36NMAU-E3	PEFY-P48NMAU-E3	PEFY-P54NMAU-E3
Power Source			208 / 230V, 1-Phase, 60Hz				
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 Consumption	Cooling	W	170		240	340	360
	Heating	W	150		220	320	340
Current	Cooling	A	1.31 / 1.27		1.50 / 1.46	2.08 / 2.04	2.24 / 2.2
	Heating	A	1.20 / 1.16		1.39 / 1.35	1.97 / 1.93	2.13 / 2.09
External Finish			Galvanized Steel Sheet				
Dimensions	Height	In.	9-7/8				
	Width	In.	43-5/16		55-1/8		63
	Depth	In.	28-7/8				
Net Weight	Unit	Pounds	67		86		93
Heat Exchanger			Cross Fin (Aluminum plate fin and copper tube)				
Fan	Type x Quantity		Sirocco Fan x 2				
	Airflow Rate *2	CFM	618 - 742 - 883		812 - 989 - 1,165	989 - 1,201 - 1,412	1,042 - 1,254 - 1,483
	External Static Pressure	In. W.G.	0.14 - 0.20 - 0.28 - 0.40 - 0.60				
	Extended Static Motor Type		Direct-driven DC Brushless Motor				
Air Filter			Polypropylene Honeycomb				
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	In.	3/8				
	Gas (Low Pressure) (Brazed)	In.	5/8				
Drain Pipe Dimension (O.D.)		In.	1-1/4				
Sound Pressure Levels	Lo-Mid-Hi	dB(A)	28 - 30 - 34v		32 - 37 - 41	35 - 40 - 44	36 - 41 - 45

Notes:

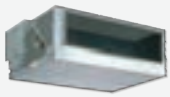
*1 Cooling/Heating Capacity indicates the maximum value at operation under the following conditions:
Cooling | Indoor: 80° F (27° C) D.B. / 67° F (19° C) W.B.; Outdoor 95° F (35° C) D.B.
Heating | Indoor: 70° F (21° C) D.B.; Outdoor: 45° F (7° C) D.B. / 43° F (6° C) W.B.

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

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-E2



Model Name			PEFY-P15NMHU-E2	PEFY-P18NMHU-E2	PEFY-P24NMHU-E2	PEFY-P27NMHU-E2	PEFY-P30NMHU-E2
Power Source			208 / 230V, 1-phase, 60Hz				
Cooling Capacity *1		Btu/h	15,000	18,000	24,000	27,000	30,000
Heating Capacity *1		Btu/h	17,000	20,000	27,000	30,000	34,000
Power Consumption	Cooling	W	270 / 280	270 / 280	330 / 320	390	450
	Heating	W	250 / 260	250 / 260	310 / 300	370	430
Current	Cooling	A	1.32 / 1.25	1.32 / 1.25	1.61 / 1.43	1.90 / 1.73	2.20 / 2.00
	Heating	A	1.21 / 1.14	1.21 / 1.14	1.50 / 1.32	1.79 / 1.62	2.09 / 1.89
External Finish			Unit: Galvanized Steel Plate				
Dimensions	Height	In.	15	15	15	15	15
	Width	In.	29-3/8	29-3/8	29-3/8	40-9/16	40-9/16
	Depth	In.	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 (Aluminum Plate Fin and Copper Tube)				
Fan	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
	Ext. Static Pressure (208/230V)	In. W.G.	0.40-1.00 / 0.60-1.00				
	Motor Type		Single-phase Induction Motor				
Air Filter			Optional Part				
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Flare)	In.	1/4	1/4	3/8	3/8	3/8
	Gas (Low Pressure) (Flare)	In.	1/2	1/2	5/8	5/8	5/8
Drain Pipe Dimension (O.D.)		In.	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4
Sound Pressure Levels (Low-High) *2		dB(A) at 230V	39-45	39-45	40-46	38-44	38-43

Model Name			PEFY-P36NMHU-E2	PEFY-P48NMHU-E2	PEFY-P54NMHU-E2	PEFY-P72NMHSU-E2	PEFY-P96NMHSU-E2
Power Source			208 / 230V, 1-phase, 60Hz				
Cooling Capacity *1		Btu/h	36,000	48,000	54,000	72,000	96,000
Heating Capacity *1		Btu/h	40,000	54,000	60,000	80,000	108,000
Power Consumption	Cooling	W	620 / 610	620 / 610	630 / 620	63	82
	Heating	W	600 / 590	600 / 590	610 / 600	63	82
Current	Cooling	A	3.10 / 2.74	3.10 / 2.74	3.11 / 2.78	3.67 / 3.32	4.89 / 4.43
	Heating	A	2.99 / 2.63	2.99 / 2.63	3.00 / 2.67	3.67 / 3.32	4.89 / 4.43
External Finish			Unit: Galvanized Steel Plate				
Dimensions	Height	In.	15	15	15	18-9/16	
	Width	In.	47-1/16	47-1/16	47-1/16	49-1/4	
	Depth	In.	35-7/16	35-7/16	35-7/16	44-1/8	
Net Weight	Unit	Pounds	153	153	157	214	221
Heat Exchanger			Cross Fin (Aluminum Plate Fin and Copper Tube)				
Fan	Type x Quantity		Sirocco Fan x 2	Sirocco Fan x 2	Sirocco Fan x 2	Sirocco Fan x 2	Sirocco Fan x 2
	Airflow Rate *2	CFM	936-1,342	936-1,342	989-1,412	1,766 - 2,154 - 2,542	2,048 - 2,507 - 2,966
	Ext. Static Pressure (208/230V)	In. W.G.	0.40-1.00 / 0.60-1.00			0.20 - 0.40 - 0.60 - 0.80 - 1.00	
	Motor Type		Single-phase Induction Motor			DC Motor	
Air Filter			Optional Part				
Refrigerant Pipe Dimensions	Liquid (High Pressure)	In.	3/8 (Flare)	3/8 (Flare)	3/8 (Flare)	3/8 (Brazed)	3/8 (Brazed)
	Gas (Low Pressure)	In.	5/8 (Flare)	5/8 (Flare)	5/8 (Flare)	3/4 (Brazed)	7/8 (Brazed)
Drain Pipe Dimension (O.D.)		In.	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4
Sound Levels *2 (Low-High or Low-Mid-High)		dB(A) at 230V	40-46	40-46	41-47	36 - 39 - 43	39 - 42 - 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: 47° F (8° C) D.B./43° F (6° C) W.B.

*2 Airflow rate/sound levels are at (Low-High or 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: 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 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 Consumption	Cooling	W	51 / 61	51 / 61	55 / 67	65 / 78	78 / 93	96 / 114
	Heating	W	51 / 61	51 / 61	55 / 67	65 / 78	78 / 93	96 / 114
Current	Cooling	A	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	A	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 Painted (5Y 8/1)					
Dimensions	Height	In.	24-13/16	24-13/16	24-13/16	24-13/16	24-13/16	24-13/16
	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			Cross Fin (Aluminum Plate Fin and Copper Tube)					
Fan	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
	Motor Type		Single Phase Induction Motor					
	Motor Output	W	15	15	18	30	35	63
Air Filter			Standard Filter					
Refrigerant Pipe Dimension	Liquid (High Pressure) (Flare)	In.	1/4	1/4	1/4	1/4	1/4	3/8
	Gas (Low Pressure) (Flare)	In.	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

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) DB / 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 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.

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					
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 Consumption	Cooling	W	51/61	51 / 61	55 / 67	65 / 78	78 / 93	96 / 114
	Heating	W	51/61	51 / 61	55 / 67	65 / 78	78 / 93	96 / 114
Current	Cooling	A	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	A	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					
Dimensions	Height	In.	25-3/16	25-3/16	25-3/16	25-3/16	25-3/16	25-3/16
	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 Exchanger			Cross Fin (Aluminum Plate Fin and Copper Tube)					
Fan	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
	Motor Type		Single Phase Induction Motor					
	Motor Output	kW	0.015	0.015	0.018	0.030	0.035	0.063
Air Filter			Standard Filter					
Refrigerant Pipe Dimension	Liquid (High Pressure) (Flare)	In.	1/4	1/4	1/4	1/4	1/4	3/8
	Gas (Low Pressure) (Flare)	In.	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.

*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 additional application installation coverage.

PVFY-P**NAMU-E

Model Name			PVFY-P12NAMU-E	PVFY-P18NAMU-E	PVFY-P24NAMU-E	PVFY-P30NAMU-E	PVFY-P36NAMU-E	PVFY-P48NAMU-E	PVFY-P54NAMU-E
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
Heating Capacity		Btu/h *1	13,500	20,000	27,000	34,000	40,000	54,000	60,000
Dimensions	Height	In.	50-1/4			54-1/4		59-1/2	
	Width	In.	17			21		25	
	Depth	In.	21-5/8						
Net Weight	Unit	Pounds	113			141		172	
Heat Exchanger			Cross fin (Aluminum fin and copper tube)						
Fan	Type x Qty.		Sirocco fan x 1						
	Airflow Rate *2	CFM	280 - 340 - 400	410 - 497 - 585	515 - 625 - 735	613 - 744 - 875	767 - 931 - 1,095	980 - 1,190 - 1,400	1,040 - 1,262 - 1,485
	External Static Pressure	In. W.G.	0.30 - 0.50 - 0.80 (selectable)						
	Motor Type		DC motor						
Filter			Polypropylene Honeycomb						
Refrigerant Pipe Dimensions	Liquid (High Pressure) (Brazed)	In.	1/4		3/8				
	Gas (Low Pressure) (Brazed)	In.	1/2		5/8				
Drain Pipe Dimensions		In.	3/4 FPT						
Sound Pressure Levels (As Measured in an Anechoic Room) *2	Pressure	dB(A)	27-31-35	28-32-36	30-34-38	32-36-40	35-39-43	35-39-43	36-40-44

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 Airflow rate/sound pressure levels are at (Low-Med-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

LGH-F***RX5-E1

Model Name		LGH-F300RX5-E1							
Power source		208 / 230V, 1-phase, 60Hz							
Ventilation mode		Lossnay ventilation				Bypass ventilation			
Speed		Extra high	High	Low	Extra Low	Extra high	High	Low	Extra Low
Current	A	1.33 / 1.35	1.12 / 1.18	0.81 / 0.86	0.32 / 0.36	1.33 / 1.35	1.12 / 1.18	0.81 / 0.86	0.32 / 0.36
Input	W	274 / 300	232 / 268	168 / 197	67 / 82	274 / 300	232 / 268	168 / 197	67 / 82
Air volume	CFM	300 / 300	260 / 300	203 / 235	91 / 112	300 / 300	260 / 300	203 / 235	91 / 112
External static pressure	In. W.G.	0.60 / 0.78	0.46 / 0.54	0.28 / 0.33	0.06 / 0.08	0.60 / 0.78	0.46 / 0.54	0.28 / 0.33	0.06 / 0.08
Temperature recovery efficiency (%)		65.5 / 65.5	67.5 / 65.5	71 / 69	81 / 79	-	-	-	-
Enthalpy recovery efficiency (%)	Heating	63 / 63	65 / 63	68 / 66	79 / 77	-	-	-	-
	Cooling	50 / 50	52 / 50	55 / 53	63 / 61	-	-	-	-
Sound Pressure (Measured at 1.5m under level the center of the unit)	dB(A)	34 / 37	30.5 / 33	25.5 / 27.5	18 / 18	35/37.5	31.5 / 34.5	25.5 / 28.5	18 / 18.5
Weight	Pounds	73							
Starting current		2.5A							
Filter Specification		Standard Filter Provided (MERV 6)							

Model Name		LGH-F470RX5-E1							
Power source		208 / 230V, 1-phase, 60Hz							
Ventilation mode		Lossnay ventilation				Bypass ventilation			
Speed		Extra high	High	Low	Extra Low	Extra high	High	Low	Extra Low
Current	A	2.40 / 2.50	2.10 / 2.20	1.59 / 1.71	0.60 / 0.64	2.40 / 2.50	2.10 / 2.20	1.59 / 1.71	0.60 / 0.64
Input	W	485 / 538	425 / 490	330 / 393	120 / 145	485 / 538	425 / 490	330 / 393	120 / 145
Air volume	CFM	470 / 470	420 / 470	330 / 365	147 / 177	470 / 470	420 / 470	330 / 365	147 / 177
External static pressure	In. W.G.	0.80 / 0.96	0.54 / 0.66	0.33 / 0.40	0.07 / 0.09	0.80 / 0.96	0.54 / 0.66	0.33 / 0.40	0.07 / 0.09
Temperature recovery efficiency (%)		69 / 69	70.5 / 69	74 / 72	82 / 80	-	-	-	-
Enthalpy recovery efficiency (%)	Heating	64 / 64	66 / 64	70 / 68	80 / 78	-	-	-	-
	Cooling	51 / 51	53 / 51	58 / 55	69 / 67	-	-	-	-
Sound Pressure (Measured at 1.5m under level the center of the unit)	dB(A)	36 / 38	33 / 35.5	28.5 / 31	18 / 18.5	36 / 39	33 / 36	28.5 / 31.5	18 / 18
Weight	Pounds	119							
Starting current		4.5A							
Filter Specification		Standard Filter Provided (MERV 6)							

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

LGH-F***RX5-E1

Model		LGH-F600RX5-E1							
Power source		208 / 230V, 1-phase, 60Hz							
Ventilation mode		Lossnay ventilation				Bypass ventilation			
Speed		Extra high	High	Low	Extra Low	Extra high	High	Low	Extra Low
Current	A	2.80 / 2.90	2.50 / 2.70	1.56 / 1.69	0.72 / 0.79	2.80 / 2.90	2.50 / 2.70	1.56 / 1.69	0.72 / 0.79
Input	W	577 / 637	517 / 605	324 / 387	146 / 180	577 / 637	517 / 605	324 / 387	146 / 180
Air volume	CFM	600 / 600	520 / 600	370 / 430	200 / 235	600 / 600	520 / 600	370 / 430	200 / 235
External static pressure	In. W.G.	0.56 / 0.80	0.48 / 0.48	0.24 / 0.24	0.07 / 0.07	0.56 / 0.80	0.48 / 0.48	0.24 / 0.24	0.07 / 0.07
Temperature recovery efficiency (%)		67 / 67	68 / 67	75 / 73	80 / 78	-	-	-	-
Enthalpy recovery efficiency (%)	Heating	64 / 64	65 / 64	71 / 68	79 / 77	-	-	-	-
	Cooling	50 / 50	53 / 50	59 / 56	68 / 67	-	-	-	-
Sound Pressure (Measured at 1.5m under level the center of the unit)	dB(A)	36 / 38	34 / 36.5	26.5 / 29	19 / 21	37 / 39	35 / 37.5	27 / 30	18.5 / 20
Weight	Pounds	132							
Starting current		5.0A							
Filter Specification		Standard Filter Provided (MERV 6)							

Model		LGH-F1200RX5-E1					
Power source		208 / 230V, 1-phase, 60Hz					
Ventilation mode		Lossnay ventilation			Bypass ventilation		
Speed		Extra high	High	Low	Extra high	High	Low
Current	A	5.7 / 5.8	5.0 / 5.3	3.1 / 3.4	5.8 / 5.8	5.1 / 5.4	3.1 / 3.4
Input	W	1185 / 1303	1040 / 1219	639 / 765	1185 / 1303	1040 / 1219	639 / 765
Air volume	CFM	1200 / 1200	1012 / 1200	695 / 824	1200 / 1200	1012 / 1200	695 / 824
External static pressure	In. W.G.	0.43 / 0.75	0.43 / 0.43	0.20 / 0.20	0.43 / 0.75	0.43 / 0.43	0.20 / 0.20
Temperature recovery efficiency (%)		67 / 67	68 / 67	75 / 73			
Enthalpy recovery efficiency (%)	Heating	64 / 64	65 / 64	71 / 68			
	Cooling	50 / 50	53 / 50	59 / 56			
Sound Pressure (Measured at 1.5m under level the center of the unit)	dB(A)	38 / 40.5	36 / 39	29 / 32	40 / 42.5	38 / 41	30.5 / 33.5
Weight	Pounds	265					
Starting current		10.0A					
Filter Specification		Standard Filter Provided (MERV 6)					

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-AF1200CFM	PEFY-AF1200CFMR
Power Source			208 / 230V, 1 Phase, 60Hz	
Cooling Capacity		Btu/h *1	112,000	112,000
Heating Capacity		Btu/h *1	61,400	61,400
Reheat Capacity		Btu/h	-	24, 200
Power Consumption	Cooling	W	660 / 780	
	Heating	W	660 / 780	
Current	Cooling	A	3.19 / 3.45	
	Heating	A	3.19 / 3.45	
External Finish			Galvanized	
Dimensions	Height	In.	18-9/16	
	Width	In.	49-1/4	
	Depth	In.	55-1/8	
Net Weight	Unit	Pounds	287	309
Heat Exchanger			Cross Fin (Aluminum Plate Fin and Copper Tube)	
Fan	Type x quantity		Sirocco Fan x 2	
	Airflow Rate *2	CFM	1,200	
	External Static Pressure	In. WG	0.40-0.60-0.88 (208V)	0.28-0.48-0.80 (208V)
			0.64-0.80-1.04 (230V)	0.52-0.72-0.96 (230V)
	Motor Type		Single-phase Induction Motor	
Air Filter			Field Supply	
Main Coil Refrigerant Pipe Dimensions	Liquid (High Pressure) (Flare)	In.	3/8	
	Gas (Low Pressure) (Flare)	In.	7/8	
Reheat Coil Refrigerant Pipe Dimensions	Liquid (High Pressure) (Flare)	In.	-	7/8
	Gas (Low Pressure) (Flare)	In.	-	3/8
Drain Pipe Dimension (O.D.)		In.	1-1/4 x 2	
Sound Pressure Level *3	Low-Mid-High	dB(A)	36-38-41 (208V)	
			39-41-43 (230V)	
Operating Temperature Range	Cooling		50° F WB to 95° F WB (109° F DB) (10° C WB to 35° C WB [43° C DB])	
	Heating		-4° F WB to +60° F WB (-20° C WB to +15.5° C WB)	
Connectable Outdoor Unit			PUHY-P120TKMU (-BS), PUHY-P120YKMU (-BS) PUHY-P120TJMU (-BS), PUHY-P120YJMU (-BS)	PURY-P120TKMU (-BS), PURY-P120YKMU (-BS) PURY-P120TJMU (-BS), PURY-P120YJMU (-BS)

Notes:

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

Mitsubishi Electric HVAC continues to drive acceptance of VRF technology in the U.S. engineering and regulatory arenas.

LEADING THE VRF INDUSTRY

Mitsubishi Electric HVAC has been at the forefront of the charge to develop proper testing standards and procedures for VRF systems, providing clients the necessary information to properly incorporate these systems into their building designs.

AHRI STANDARDS

Air-conditioning, Heating and Refrigeration Institute (AHRI) Standards 210/240 and 340/360 had been used as the benchmark for establishing the testing methods of traditional unitary HVAC equipment. These standards have formalized the use of such terms as EER, COP, SEER, and HSPF– terms which are recognized and applied throughout the HVAC industry today. The simple testing procedures detailed in these existing AHRI standards, however, were not adequate to appropriately measure efficiency levels within advanced VRF systems, and could not account for such technologies as inverter-driven compressors, simultaneous cooling and heating, and variable-capacity ductless and ducted indoor units.

AHRI STANDARD 1230

Mitsubishi Electric worked with the Department of Energy (DOE) and AHRI to gain regulatory acceptance for VRF systems. Initially, Mitsubishi Electric requested DOE grant waivers from the existing testing standards for VRF systems. It was quickly recognized that waivers weren't a long-term solution, and Mitsubishi Electric immediately assisted in developing a proper testing standard for VRF systems—a standard that is now known as AHRI Standard 1230.

INTEGRATED ENERGY EFFICIENCY RATIO

IEER is the new measure of partial-load cooling performance for unitary equipment and VRF systems. IEER greatly improves the industry methodology for part-load testing by collecting data for four different outdoor testing conditions based on load on the system. The formula (shown below) used for testing, more accurately demonstrates the value and capabilities of INVERTER-driven VRF systems at part-load operation.

ASHRAE STANDARD 90.1

ASHRAE Standard 90.1 is synonymous with energy efficiency requirements in commercial buildings. Many city, state, and national codes reference the efficiency levels listed in this standard.

Test Condition "A"	=	100% Capacity at 95˚ FDB
Test Condition "B"	=	75% Capacity at 81.5˚ FDB
Test Condition "C"	=	50% Capacity at 68˚ FDB
Test Condition "D"	=	25% Capacity at 65˚ FDB

IEER = 0.02A + 0.617B + 0.238C + 0.125D

With the development and approval of AHRI Standard 1230, Mitsubishi Electric and other VRF system manufacturers had a platform that supported the introduction of VRF efficiency standards as an addendum to Standard 90.1-2007, and incorporated these standards as a part of Standard 90.1-2010. The minimum VRF efficiency standards are shown in the table on page 99.

ASHRAE STANDARDS 15 and 34

ASHRAE Standard 15 provides requirements for the safe design, construction, installation, and operation of all HVAC&R systems as a way of protecting building occupants and property. ASHRAE Standard 34 assigns reference numbers, safety classifications for flammability and toxicity, and refrigerant concentration limits (RCL) to refrigerants. These standards are referenced by both the International Mechanical Code and the Uniform Mechanical Code, which are typically adopted as part of local code requirements. Mitsubishi Electric VRF systems utilize R-410A refrigerant, which is assigned an A1 safety classification placing it in the lowest toxicity and no flame propagation categories.

Engineers and designers have great flexibility in applying CITY MULTI® VRF systems to ensure the design is compliant with ASHRAE Standard 15. Examining the project spaces and determining the occupied and connected spaces needs to be a primary consideration, and care must be taken in the location and layout of refrigerant lines and indoor units. For more detailed information please refer to the system design manual for the outdoor unit. Guidance is also provided in Application Note 2001 which can be downloaded from mylinkdrive.com.

ELECTRICALLY OPERATED VARIABLE REFRIGERANT FLOW AIR-TO-AIR AND APPLIED HEAT PUMPS–MINIMUM EFFICIENCY REQUIREMENTS

Equipment Type	Size Category	Heating Section Type	Sub-Category or Rating Condition	Minimum Efficiency	Test Procedure
VRF Air Cooled, (cooling mode)	<65,000 Btu/h	All	VRF Multi-split System	13.0 SEER	AHRI 1230
	≥65,000 Btu/h and <135,000 Btu/h	Electric Resistance (or none)	VRF Multi-split System	11.0 EER 12.3 IEER 12.9 IEER (as of 7/1/2012)	
	≥65,000 Btu/h and <135,000 Btu/h	Electric Resistance (or none)	VRF Multi-split System with Heat Recovery	10.8 EER 12.1 IEER 12.7 IEER (as of 7/1/2012)	
	≥135,000 Btu/h and <240,000 Btu/h	Electric Resistance (or none)	VRF Multi-split System	10.6 EER 11.8 IEER 12.3 IEER (as of 7/1/2012)	
	≥135,000 Btu/h and <240,000 Btu/h	Electric Resistance (or none)	VRF Multi-split System with Heat Recovery	10.4 EER 11.6 IEER 12.1 IEER (as of 7/1/2012)	
	≥240,000 Btu/h	Electric Resistance (or none)	VRF Multi-split System	9.5 EER 10.6 IEER 11.0 IEER (as of 7/1/2012)	
	≥240,000 Btu/h	Electric Resistance (or none)	VRF Multi-split System with Heat Recovery	9.3 EER 10.4 IEER 10.8 IEER (as of 7/1/2012)	
VRF Water Source, (cooling mode)	<65,000 Btu/h	All	VRF Multi-split System 86°F entering water	12.0 EER	AHRI 1230
	≥65,000 Btu/h h	All	VRF Multi-split System with Heat Recovery 86°F entering water	11.8 EER	
	≥65,000 Btu/h and <135,000 Btu/h	All	VRF Multi-split systems 86°F entering water	12.0 EER	
	≥65,000 Btu/h and <135,000 Btu/h	All	VRF Multi-split System with Heat Recovery 86°F entering water	11.8 EER	
	≥135,000 Btu/h	All	VRF Multi-split systems 86°F entering water	10.0 EER	
	≥135,000 Btu/h	All	VRF Multi-split System with Heat Recovery 86°F entering water	9.8 EER	
VRF Ground Water Source, (cooling mode)	≥135,000 Btu/h	All	VRF Multi-split System 59°F entering water	16.2 EER	AHRI 1230
	≥135,000 Btu/h	All	VRF Multi-split System with Heat Recovery 59°F entering water	16.0 EER	
	≥135,000 Btu/h	All	VRF Multi-split System 59°F entering water	13.8 EER	
	≥135,000 Btu/h	All	VRF Multi-split System with Heat Recovery 59°F entering water	13.6 EER	
VRF Air Cooled, (heating mode)	<65,000 Btu/h (cooling capacity)	–	VRF Multi-split System	7.7 HSPF	AHRI 1230
	≥65,000 Btu/h and <135,000 Btu/h	–	VRF Multi-split System 47° F db/43° F wb outdoor air	3.3 COP	
			VRF Multi-split System 17° F db/15° F wb outdoor air	2.25 COP	
	≥135,000 Btu/h	–	VRF Multi-split System 47° F db/43° F wb outdoor air	3.2 COP	
			VRF Multi-split System 17° F db/15° F wb outdoor air	2.05 COP	
VRF Water Source, (heating mode)	<135,000 Btu/h	–	VRF Multi-split System 68° F entering water	4.2 COP	AHRI 1230
	≥135,000 Btu/h	–	VRF Multi-split System 68° F entering water	3.9 COP	
VRF Ground Water Source, (heating mode)	<135,000 Btu/h	–	VRF Multi-split System 50° F entering water	3.6 COP	AHRI 1230
	≥135,000 Btu/h	–	VRF Multi-split System 50° F entering water	3.3 COP	
VRF Ground Source, (heating mode)	≥135,000 Btu/h	–	VRF Multi-split System 32° F entering water	3.1 COP	AHRI 1230
	<135,000 Btu/h	–	VRF Multi-split System 32° F entering water	2.8 COP	

Note: For efficiency values tested in accordance with AHRI-1230, contact your local Mitsubishi Electric sales representative

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Use of the AHRI Certified™ mark indicates a manufacturer's participation in the certification program. For verification of certification for individual products, go to www.ahridirectory.org.

See complete warranty for terms, conditions, and limitations. A copy is available from Mitsubishi Electric.

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