# MULTI SPLIT

SERIES







# SELECTION

Choose from types of indoor units and outdoor units that can run up to six indoor units each.
Create the system that best matches room shapes and number of rooms.

## R32 INDOOR UNITS

### Wall-mounted


MSZ-LN (18•25•35•50)


MSZ-EF

MSZ-AY25-50


MSZ-AY15-20


MSZ-AP60VG


MSZ-BT

### Cassette


SLZ


MLZ-KP


MLZ-KY

### Floor-standing


MFZ-KT


SFZ

### Ceiling-suspended


PCA

### Ceiling-concealed


SEZ


PEAD

## R32 OUTDOOR UNITS

### 2-port
up to 2 indoor units


MXZ-2F33VF4
MXZ-2F42VF4
MXZ-2F53VF(H)4

### 3-port
up to 3 indoor units


MXZ-3F54VF4
MXZ-3F68VF4

### 4-port
up to 4 indoor units


MXZ-4F72VF4
MXZ-4F80VF4


MXZ-4F83VF2

### 5-port
up to 5 indoor units


MXZ-5F102VF2

### 6-port
up to 6 indoor units


MXZ-6F120VF2

### Hyper Heating


MXZ-2F53VFHZ2


MXZ-4F83VFHZ2

## CHECK SYSTEM COMPATIBILITY

Possible combinations depends on the outdoor unit chosen. Please check the following points.

**Check Indoor Units**

Refer to the "Indoor Unit Compatibility Table" to check if the indoor units selected can be used with the outdoor unit selected. (Indoor units not listed in the table cannot be used.)

**Check Indoor Unit Capacity Combination**

Refer to the "Combination Table" to check if the capacity combination of the indoor unit selected is connectable. (Combinations not listed cannot be connected.)

**If the desired combination cannot be found, please change either the indoor or outdoor unit to match one of the combinations shown in the tables.**

# MXZ SERIES

Advancements in the MXZ Series include efficiency and flexibility in system expansion capabilities. The best solution when requiring multi-system air conditioning needs.






R32

2-port

MXZ-2F33VF4
MXZ-2F42VF4
MXZ-2F53VF(H)4



R32

3-port 4-port

MXZ-3F54VF4
MXZ-3F68VF4
MXZ-4F72VF4
MXZ-4F80VF4



R32

4-port 5-port

MXZ-4F83VF2
MXZ-5F102VF2



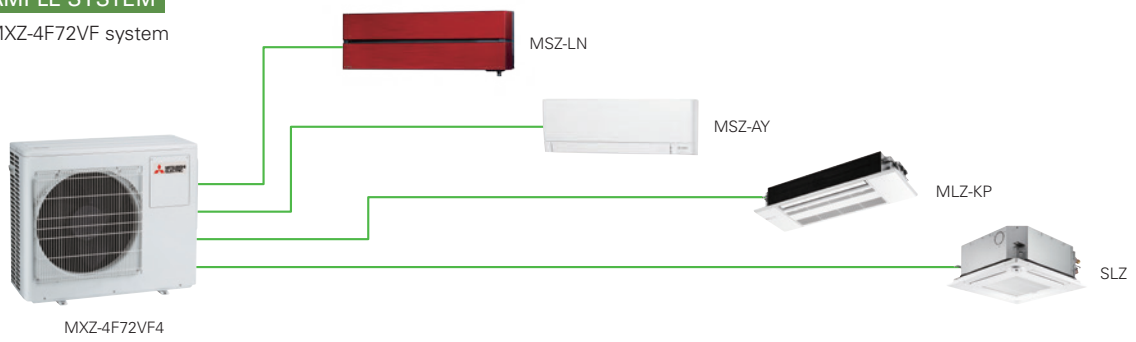
R32

6-port

MXZ-6F120VF2

EXAMPLE SYSTEM

MXZ-4F72VF system




## Units can be used even if it is connected to only one indoor unit (4F83/5F102/6F120)

This unit can be used even if it is connected to only one indoor unit. This offers more flexibility for wide range of application that satisfies various customers' demand.

## No necessity for refrigerant charging

Depending on the pipe length and the indoor units that are connected, conventional models have required refrigerant charging, but no R32 MXZ model needs to be charged with additional refrigerant. This eliminates troublesome work at the site of installation, and reduces the amount of additional work for the installer.

## Handle Up to 6 Rooms with a Single Outdoor Unit

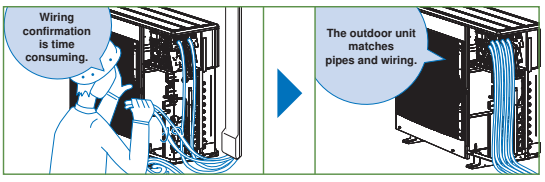
The MXZ Series for R32 offers a ten-system line-up to choose from, ranging between 3.3 and 12.0kW. All of them are compatible with specific M, S and P series indoor units. A single outdoor unit can handle a wide range of building layouts.

# Support Functions

## Wiring/Piping Correction Function* (3F54/3F68/4F72/4F80/4F83/5F102/6F120)

Simply press a single button to confirm if wiring and piping are properly connected. Wiring errors are corrected automatically when discovered. This eliminates the need to confirm complicated wiring connections when expanding the system. (For details, refer to the outdoor unit installation manual.)

* Function cannot be used when the outdoor temperature is below 0°C.
The correction process requires 10–20 minutes to complete and must be conducted with the unit set to the "Cooling" mode.




## Operation Lock

To accommodate specific use applications, cooling or heating operation can be specified when setting the control board of the outdoor unit. A convenient option when a system needs to be configured for exclusive cooling or heating service. (For details, refer to the outdoor unit installation manual.)

# MXZ SERIES
INVERTER MULTI




| Type (Inverter Multi - Split Heat Pump) | | | | Up to 2 Indoor Units | | | | Up to 3 Indoor Units | | Up to 4 Indoor Units | | | Up to 5 Indoor Units |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Indoor Unit | | | | Please refer to*3 | | | | | | | | | |
| Outdoor Unit | | | | MXZ-2F33VF4 | MXZ-2F42VF4 | MXZ-2F53VF4 | MXZ-2F53VFH4 | MXZ-3F54VF4 | MXZ-3F68VF4 | MXZ-4F72VF4 | MXZ-4F80VF4 | MXZ-4F83VF2 | MXZ-5F102VF2 |
| Refrigerant | | | | R32 | | | | | | | | | |
| Power Supply | Source | | | Outdoor power supply | | | | | | | | | |
| | Outdoor (V/Phase/Hz) | | | 220 - 230 - 240V / Single / 50Hz | | | | | | | | | |
| Cooling | Capacity | Rated | kW | 3.3 | 4.2 | 5.3 | 5.3 | 5.4 | 6.8 | 7.2 | 8.0 | 8.3 | 10.2 |
| | Input | Rated | kW | 0.85 | 0.98 | 1.40 | 1.40 | 1.32 | 1.84 | 1.85 | 2.25 | 1.97 | 2.80 |
| | Design Load | | kW | 3.3 | 4.2 | 5.3 | 5.3 | 5.4 | 6.8 | 7.2 | 8.0 | 8.3 | 10.2 |
| | Annual Electricity Consumption*1 | | kWh/a | 189 | 169 | 216 | 216 | 222 | 301 | 311 | 368 | 342 | 436 |
| | SEER*3 | | | 6.1 | 8.7 | 8.6 | 8.6 | 8.5 | 7.9 | 8.1 | 7.6 | 8.5 | 8.2 |
| | | Energy Efficiency Class*3 | | A++ | A+++ | A+++ | A+++ | A+++ | A++ | A++ | A++ | A+++ | A++ |
| Heating | Capacity | Rated | kW | 4.0 | 4.5 | 6.4 | 6.4 | 7.0 | 8.6 | 8.6 | 8.8 | 9.3 | 10.5 |
| | Input | Rated | kW | 0.91 | 0.88 | 1.56 | 1.56 | 1.40 | 1.91 | 1.87 | 2.00 | 2.00 | 2.28 |
| | Design Load | | kW | 2.7 | 3.5 | 3.5 | 3.5 | 5.2 | 6.8 | 7.0 | 7.0 | 7.0 | 7.4 |
| | Declared Capacity | at reference design temperature | kW | 2.2 | 2.7 | 2.7 | 2.7 | 4.2 | 5.7 | 5.6 | 5.6 | 5.8 | 5.9 |
| | | at bivalent temperature | kW | 2.4 | 2.9 | 2.9 | 2.9 | 4.8 | 6.4 | 6.2 | 6.2 | 6.2 | 6.4 |
| | | at operation limit temperature | kW | 1.6 | 2.3 | 2.3 | 2.1 | 3.2 | 4.6 | 4.8 | 4.8 | 4.9 | 4.9 |
| | Back Up Heating Capacity | | kW | 0.5 | 0.8 | 0.8 | 0.8 | 1.0 | 1.1 | 1.4 | 1.4 | 1.2 | 1.5 |
| | Annual Electricity Consumption*1 | | kWh/a | 944 | 1065 | 1065 | 1089 | 1583 | 2321 | 2389 | 2389 | 2087 | 2205 |
| | SCOP*3 | | | 4.0 | 4.6 | 4.6 | 4.5 | 4.6 | 4.1 | 4.1 | 4.1 | 4.7 | 4.7 |
| | | Energy Efficiency Class*3 | | A+ | A++ | A++ | A+ | A++ | A+ | A+ | A+ | A++ | A++ |
| Max. Operating Current (Indoor+Outdoor) | | | A | 10.0 | 12.2 | 12.2 | 12.2 | 18.0 | 18.0 | 18.0 | 18.0 | 21.4 | 21.4 |
| Outdoor Unit | Dimensions | H × W × D | mm | 550 - 800 (+69) - 285 (+59.5) | | | | 710 - 840 - 330 (+66) | | | | 796 - 950 - 330 | |
| | Weight | | kg | 33 | 37 | 37 | 38 | 58 | 58 | 59 | 59 | 62 | 62 |
| | Air Volume | Cooling | $m^3$/min | 30.8 | 28.4 | 32.7 | 32.7 | 31 | 35.4 | 35.4 | 40.3 | 57 | 63 |
| | | Heating | $m^3$/min | 32.3 | 33.5 | 34.7 | 34.7 | 31 | 39.6 | 42.7 | 44.1 | 62 | 75 |
| | Sound Level (SPL) | Cooling | dB(A) | 49 | 44 | 46 | 46 | 46 | 48 | 48 | 50 | 49 | 52 |
| | | Heating | dB(A) | 50 | 50 | 51 | 51 | 50 | 53 | 54 | 55 | 51 | 56 |
| | Sound Level (PWL) | Cooling | dB(A) | 60 | 59 | 61 | 61 | 60 | 63 | 63 | 65 | 61 | 65 |
| | Breaker Size | | A | 15 | 15 | 15 | 15 | 25 | 25 | 25 | 25 | 25 | 25 |
| Ext. Piping | Port Diameter | Liquid | mm | 6.35 × 2 | 6.35 × 2 | 6.35 × 2 | 6.35 × 2 | 6.35 × 3 | 6.35 × 3 | 6.35 × 4 | 6.35 × 4 | 6.35 × 4 | 6.35 × 5 |
| | | Gas | mm | 9.52 × 2 | 9.52 × 2 | 9.52 × 2 | 9.52 × 2 | 9.52 × 3 | 9.52 × 3 | 12.7 × 1+9.52 × 3 | 12.7 × 1+9.52 × 3 | 12.7 × 1+9.52 × 3 | 12.7 × 1+9.52 × 4 |
| | Total Piping Length (max) | | m | 20 | 30 | 30 | 30 | 50 | 60 | 60 | 60 | 70 | 80 |
| | Each Indoor Unit Piping Length (max) | | m | 15 | 20 | 20 | 20 | 25 | 25 | 25 | 25 | 25 | 25 |
| | Max. Height | | m | 10 | 15 (10)*2 | 15 (10)*2 | 15 (10)*2 | 15 (10)*2 | 15 (10)*2 | 15 (10)*2 | 15 (10)*2 | 15 | 15 |
| | Chargeless Length | | m | 20 | 30 | 30 | 30 | 50 | 60 | 60 | 60 | 70 | 80 |
| Guaranteed Operating Range [Outdoor] | | Cooling | ℃ | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 |
| | | Heating | ℃ | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -20 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 | -15 ~ +24 |
| Refrigerant/GWP | | | | R32/675*4 | R32/675*4 | R32/675*4 | R32/675*4 | R32/675*4 | R32/675*4 | R32/675*4 | R32/675*4 | R32/675*3 | R32/675*3 |
| Pre-Charged Quantity | | Weight | kg | 0.8 | 1.0 | 1.0 | 1.0 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| | | $CO_2$ equivalent | t | 0.54 | 0.68 | 0.68 | 0.68 | 1.62 | 1.62 | 1.62 | 1.62 | 1.62 | 1.62 |
| Max Added Quantity | | Weight | kg | 0.8 | 1.0 | 1.0 | 1.0 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| | | $CO_2$ equivalent | t | 0.54 | 0.68 | 0.68 | 0.68 | 1.62 | 1.62 | 1.62 | 1.62 | 1.62 | 1.62 |

| Type (Inverter Multi - Split Heat Pump) | | | | Up to 6 Indoor Units |
|---|---|---|---|---|
| Indoor Unit | | | | Please refer to*3 |
| Outdoor Unit | | | | MXZ-6F120VF2 |
| Refrigerant | | | | R32 |
| Power Supply | Source | | | Outdoor power supply |
| | Outdoor (V/Phase/Hz) | | | 220 - 230 - 240V / Single / 50Hz |
| Cooling | Capacity | Rated | kW | 12.0 |
| | Input | Rated | kW | 3.60 |
| | Design Load | | kW | 12.0 |
| | Annual Electricity Consumption*1 | | kWh/a | 612 |
| | SEER*3 | | | 6.86 |
| | | Energy Efficiency Class*3 | | A++ |
| Heating | Capacity | Rated | kW | 14.0 |
| | Input | Rated | kW | 3.31 |
| | Design Load | | kW | 8.1 |
| | Declared Capacity | at reference design temperature | kW | 6.9 |
| | | at bivalent temperature | kW | 7.6 |
| | | at operation limit temperature | kW | 5.7 |
| | Back Up Heating Capacity | | kW | 1.2 |
| | Annual Electricity Consumption*1 | | kWh/a | 2794 |
| | SCOP*3 | | | 4.06 |
| | | Energy Efficiency Class*3 | | A+ |
| Max. Operating Current (Indoor+Outdoor) | | | A | 29.8 |
| Outdoor Unit | Dimensions | H × W × D | mm | 1048 - 950 - 330 |
| | Weight | | kg | 87 |
| | Air Volume | Cooling | $m^3$/min | 63 |
| | | Heating | $m^3$/min | 77 |
| | Sound Level (SPL) | Cooling | dB(A) | 55 |
| | | Heating | dB(A) | 57 |
| | Sound Level (PWL) | Cooling | dB(A) | 69 |
| | Breaker Size | | A | 32 |
| Ext. Piping | Port Diameter | Liquid | mm | 6.35 × 6 |
| | | Gas | mm | 12.7 × 1 + 9.52 × 5 |
| | Total Piping Length (max) | | m | 80 |
| | Each Indoor Unit Piping Length (max) | | m | 25 |
| | Max. Height | | m | 15 |
| | Chargeless Length | | m | 80 |
| Guaranteed Operating Range [Outdoor] | | Cooling | ℃ | -10 ~ +46 |
| | | Heating | ℃ | -15 ~ +24 |
| Refrigerant/GWP | | | | R32/675*4 |
| Pre-Charged Quantity | | Weight | kg | 2.4 |
| | | $CO_2$ equivalent | t | 1.62 |
| Max Added Quantity | | Weight | kg | 2.4 |
| | | $CO_2$ equivalent | t | 1.62 |

*1 Energy consumption based on standard test results.
Actual energy consumption will depend on how the appliance is used and where it is located.
*2 If the outdoor unit is installed higher than the indoor unit, max. height is reduced to 10 m.
*3 SEER/SCOP values and energy efficiency class are measured when connectedto the indoor units listed below.

| | |
|---|---|
| MXZ-2F33VF4 | MSZ-AY15VGK(P) + MSZ-LN18VG2 |
| MXZ-2F42VF4 | MSZ-LN18VG2 + MSZ-LN25VG2 |
| MXZ-2F53VF4/VFH4 | MSZ-LN18VG2 + MSZ-LN35VG2 |
| MXZ-3F54VF4 | MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN18VG2 |
| MXZ-3F68VF4 | MSZ-LN18VG2 + MSZ-LN25VG2 + MSZ-LN25VG2 |
| MXZ-4F72VF4 | MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN18VG2 +MSZ-LN18VG2 |
| MXZ-4F80VF4 | MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN18VG2 +MSZ-LN25VG2 |
| MXZ-4F83VF2 | MSZ-LN18VG + MSZ-LN18VG + MSZ-LN25VG + MSZ-LN25VG |
| MXZ-5F102VF2 | MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN25VG2 + MSZ-LN25VG2 |
| MXZ-6F120VF2 | MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN25VG2 + MSZ-LN25VG2 |

*4 This GWP value is based on Regulation(EU) No 517/2014 from IPCC 4th edition.

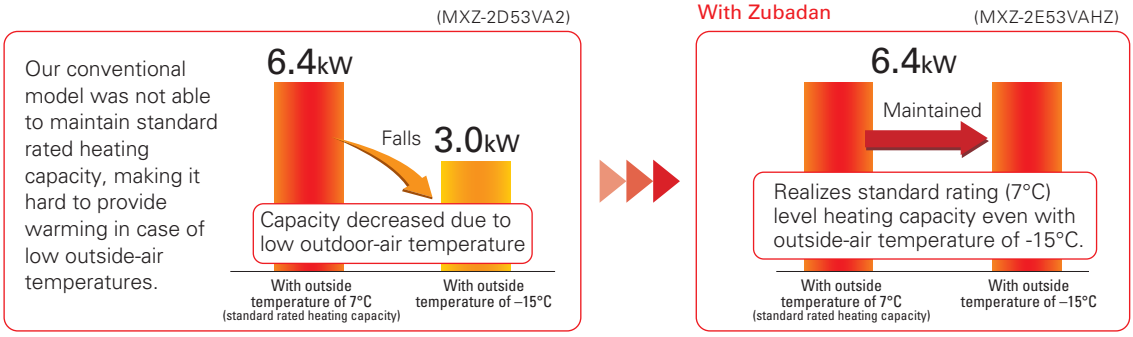
# MXZ-VFHZ SERIES

New hyper-heating MXZ allows you to create an oasis of comfort throughout your home and office in the rooms you use most, any time of the year.



## Standard rated heating capacity is maintained even when the outside-air temperature drops to –15°C.

Maintains high capacity output even when outside-air temperature is low.




## Can operate at outside-air temperature of –25°C

1. Incorporated key parts resistant to cold of up to –25°C after rigorous selection.
2. Printed circuit board-core of the air conditioner—is coated on both sides to protect it in harsh environments.

## Equipped Freeze-prevention heater as standard

Prevents capacity loss and operation from stopping due to drain water freezing.

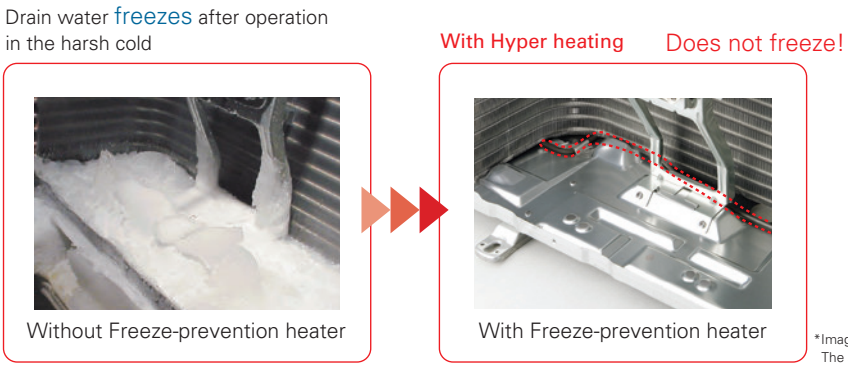
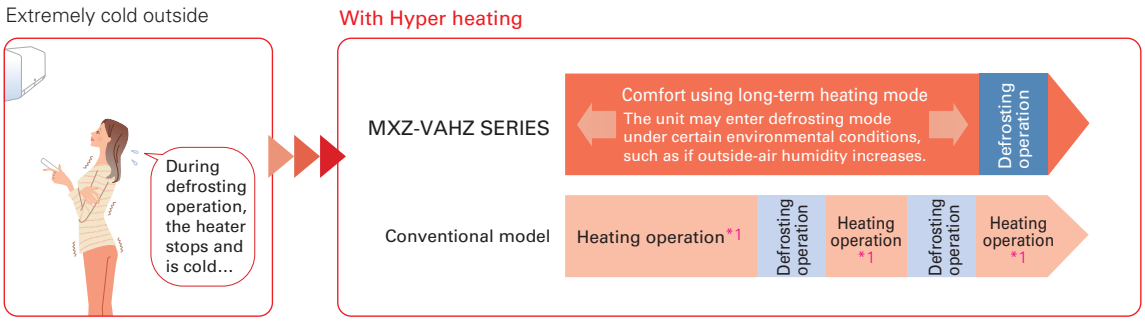



*Image is for illustration purposes.
The actual performance depends on outdoor temperature.

## Continuous heating for long periods

Wasteful defrosting operation suppressed to enable more comfortable long-term continuous heating.

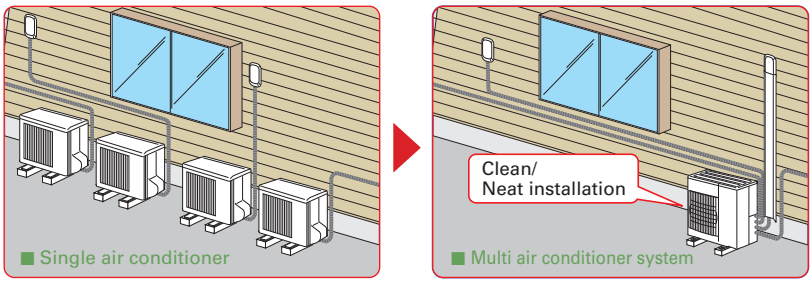



*1: Conventional model performs continuous heating approximately 30min up to a maximum of 90min.

## One outdoor unit supports multiple indoor units.

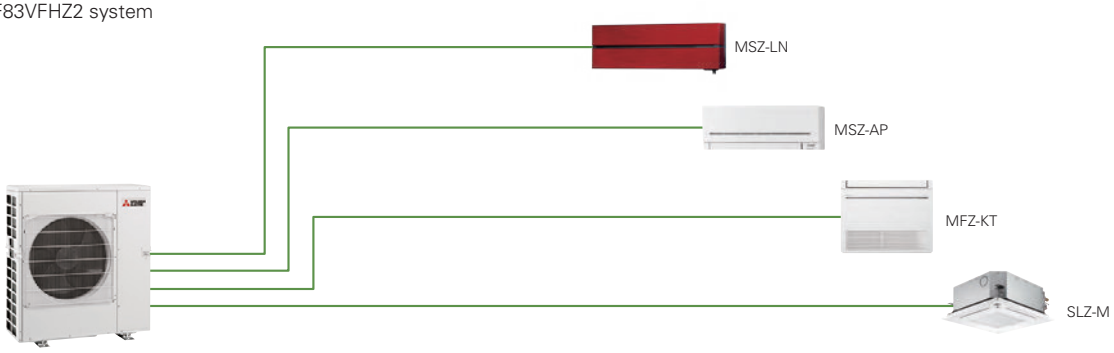
With MXZ-VFHZ, one outdoor unit can cool and heat up to six rooms. They can be installed neatly in sites with limited space such as condominium balconies.

*Please note that cooling and heating modes cannot be run simultaneously in different rooms.




### EXAMPLE SYSTEM

MXZ-4F83VFHZ2 system




## Freedom of combinations in cold region greatly enhanced

The variety of indoor unit connection options in cold regions, restricted until now, has been greatly increased.
Increased design freedom.

### OUTDOOR UNITS

**2-room use**

R32



MXZ-2F53VFHZ2

**4-room use**

R32



MXZ-4F83VFHZ2

### INDOOR UNITS

**Wall-mounted**

R32 R410A



MSZ-LN

R32 R410A



MSZ-AP

R32 R410A



MSZ-EF

R32



MSZ-FT

**Floor-standing**

R32



MFZ-KT

**Cassette**

R32 R410A



SLZ

R32 R410A



MLZ-KP

**Ceiling-concealed**

R32 R410A



SEZ

# MXZ-VFHZ SERIES

## Outdoor Unit

R32



MXZ-2F53VFHZ2

R32



MXZ-4F83VFHZ2

| Type | | | | Inverter Heat Pump | |
|---|---|---|---|---|---|
| Indoor Unit | | | | Please refer to*2 *3 | |
| Outdoor Unit | | | | MXZ-2F53VFHZ2 | MXZ-4F83VFHZ2 |
| Refrigerant | | | | R32*4 | |
| **Power Supply** | **Source** | | | Outdoor power supply | |
| | **Outdoor (V/Phase/Hz)** | | | 220 - 230 - 240V / Single / 50 | |
| **Cooling** | **Capacity** | Rated | kW | 5.3 | 8.3 |
| | | Min - Max | kW | 1.1 - 6.0 | 3.5 - 9.2 |
| | **Total Input** | Rated | kW | 1.29 | 1.90 |
| | **Design Load** | | kW | 5.3 | 8.3 |
| | **Annual Electricity Consumption***1 | | kWh/a | 274 | 398 |
| | **SEER***5 | | | 6.8 | 7.3 |
| | | **Energy Efficiency Class** | | A++ | A++ |
| **Heating (Average Season)** | **Capacity** | Rated (7°C) | kW | 6.4 | 9.0 |
| | | Rated (–7°C) | kW | 6.4 | 9.0 |
| | | Rated (–15°C) | kW | 6.4 | 9.0 |
| | | Min - Max | kW | 1.0 - 7.0 | 3.5 - 11.6 |
| | **Total Input** | Rated | kW | 1.36 | 1.70 |
| | **Design Load** | | kW | 6.4 | 10.1 |
| | **Declared Capacity** | at reference design temperature | kW | 6.9 | 10.6 |
| | | at bivalent temperature | kW | 7.4 | 11.5 |
| | | at operation limit temperature | kW | 4.1 | 5.7 |
| | **Back Up Heating Capacity** | | kW | 0.0 | 0.0 |
| | **Annual Electricity Consumption***1 | | kWh/a | 2172 | 3286 |
| | **SCOP***5 | | | 4.1 | 4.3 |
| | | **Energy Efficiency Class** | | A+ | A+ |
| **Max. Operating Current (Indoor+Outdoor)** | | | A | 15.6 | 28.0 |
| **Outdoor Unit** | **Dimensions** | H × W × D | mm | 796 × 950 × 330 | 1048 × 950 × 330 |
| | **Weight** | | kg | 61 | 86 |
| | **Air Volume** | Cooling | $m^3$/min | 43 | 63 |
| | | Heating | $m^3$/min | 41 | 77 |
| | **Sound Level (SPL)** | Cooling | dB(A) | 45 | 55 |
| | | Heating | dB(A) | 47 | 57 |
| | **Sound Level (PWL)** | Cooling | dB(A) | 55 | 66 |
| | **Breaker Size** | | A | 16 | 30 |
| **Ext. Piping** | **Diameter** | Liquid / Gas | mm | 6.35 × 2 / 9.52 × 2 | 6.35× 4 / 12.7 × 1+9.52 × 3 |
| | **Total Piping Length (max)** | | m | 30 | 70 |
| | **Each Indoor Unit Piping Length (max)** | | m | 20 | 25 |
| | **Max. Height** | | m | 15 | 15 |
| | **Chargeless Length** | | m | 30 | 70 |
| **Guaranteed Operating Range** [Outdoor] | | Cooling | °C | –10 ~ +46 | –10 ~ +46 |
| | | Heating | °C | –25 ~ +24 | –25 ~ +24 |

*1 Energy consumption based on standard test results.
Actual energy consumption will depend on how the appliance is used and where it is located.
*2 EER/COP, EEL rank, SEER/SCOP values and energy efficiency class are measured when connected to the indoor units listed below.
MXZ-2F53VFHZ2 MSZ-LN18VG2 + MSZ-LN35VG2
MXZ-4F83VFHZ2 MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN25VG2 + MSZ-LN25VG2
*3 Indoor unit compatibility table is shown on page 116.
*4 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere.
This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of $CO_2$, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
The GWP of R32 is 675 in the IPCC 4th Assessment Report.
*5 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

# MXZ-HA SERIES

Multi-port outdoor units exclusively for MSZ-HR indoor units.



R32

2-port

MXZ-2HA40VF2
MXZ-2HA50VF2



R32

3-port

MXZ-3HA50VF2

## Stylish Design with Flat Panel Front

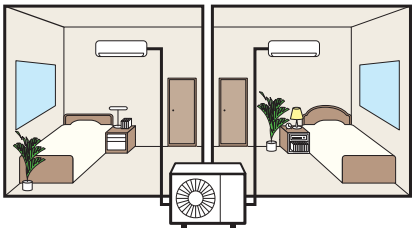
A stylish flat panel design is employed for the front of the indoor unit.
The simple look matches room aesthetics.



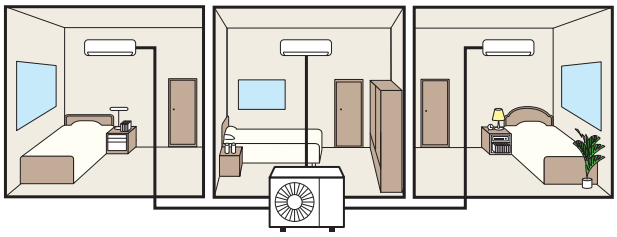
## Easy to create various combinations

Wide range of simple combinations only possible using multi-port outdoor units.

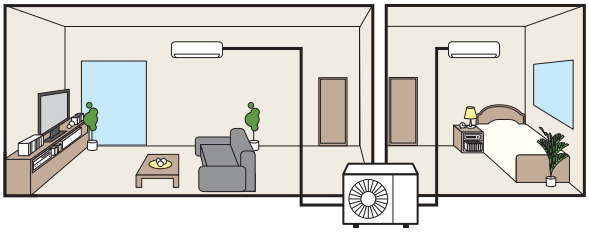
Two bedrooms



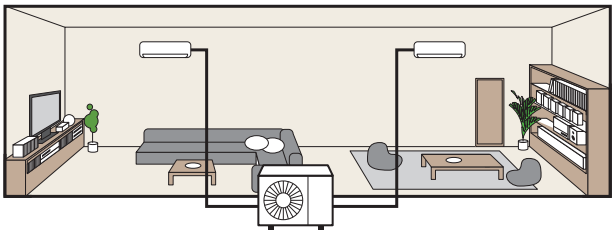
Three bedrooms



Living room and one bedroom



Wide living room



# MXZ-HA SERIES
INVERTER MULTI




| Type (Inverter Multi - Split Heat Pump) | | | | Up to 2 Indoor Units | | Up to 3 Indoor Units |
|---|---|---|---|---|---|---|
| Indoor Unit | | | | Please refer to*3 | | |
| Outdoor Unit | | | | MXZ-2HA40VF2 | MXZ-2HA50VF2 | MXZ-3HA50VF2 |
| Refrigerant | | | | R32 | | |
| Power Supply | Source | | | Outdoor power supply | | |
| | Outdoor (V/Phase/Hz) | | | 220 - 230 - 240V / Single / 50Hz | | |
| Cooling | Capacity | Rated | kW | 4.0 | 5.0 | 5.0 |
| | | Min-Max | kW | 1.1 - 4.3 | 1.1 - 5.4 | 2.9 - 6.5 |
| | Input | Rated | kW | 1.05 | 1.52 | 1.26 |
| | Design Load | | kW | 4.0 | 5.0 | 5.0 |
| | Annual Electricity Consumption*2 | | kWh/a | 172 | 225 | 241 |
| | SEER*1 | | | 8.12 | 7.78 | 7.26 |
| | | Energy Efficiency Class*3 | | A++ | A++ | A++ |
| Heating | Capacity | Rated | kW | 4.3 | 6.0 | 6.0 |
| | | Min-Max | kW | 1.0 - 4.7 | 1.0 - 6.4 | 2.6 - 7.5 |
| | Input | Rated | kW | 0.91 | 1.54 | 1.30 |
| | Design Load | | kW | 3.2 | 3.2 | 4.0 |
| | Declared Capacity | at reference design temperature | kW | 2.4 | 2.4 | 3.0 |
| | | at bivalent temperature | kW | 2.9 | 2.9 | 3.6 |
| | | at operation limit temperature | kW | 2.1 | 2.1 | 2.6 |
| | Back Up Heating Capacity | | kW | 0.8 | 0.8 | 1.0 |
| | Annual Electricity Consumption*2 | | kWh/a | 1043 | 1043 | 1394 |
| | SCOP*3 | | | 4.30 | 4.30 | 4.02 |
| | | Energy Efficiency Class*3 | | A+ | A+ | A+ |
| Max. Operating Current (Indoor+Outdoor) | | | A | 12.2 | 12.2 | 18.0 |
| Outdoor Unit | Dimensions | H × W × D | mm | 550 - 800 (+69) - 285 (+59.5) | | 710 - 840 - 330 (+66) |
| | Weight | | kg | 37 | 37 | 57 |
| | Air Volume | Cooling | m³/min | 28.4 | 32.7 | 31.0 |
| | | Heating | m³/min | 33.5 | 34.7 | 29.1 |
| | Sound Level (SPL) | Cooling | dB(A) | 44 | 47 | 46 |
| | | Heating | dB(A) | 50 | 51 | 50 |
| | Sound Level (PWL) | Cooling | dB(A) | 59 | 64 | 61 |
| | Breaker Size | | A | 15 | 15 | 25 |
| Ext. Piping | Port Diameter | Liquid | mm | 6.35 × 2 | 6.35 × 2 | 6.35 × 3 |
| | | Gas | mm | 9.52 × 2 | 9.52 × 2 | 9.52 × 3 |
| | Total Piping Length (max) | | m | 30 | 30 | 50 |
| | Each Indoor Unit Piping Length (max) | | m | 20 | 20 | 25 |
| | Max. Height | | m | 15(10)*2 | 15(10)*2 | 15(10)*2 |
| | Chargeless Length | | m | 30 | 30 | 40 |
| Guaranteed Operating Range [Outdoor] | | Cooling | ℃ | –10 ~ +46 | | |
| | | Heating | ℃ | –15 ~ +24 | | |
| Chargeless Length | | | | R32/675*4 | R32/675*4 | R32/675*4 |
| Pre-Charged Quantity | | Weight | Kg | 0.9 | 0.9 | 1.4 |
| | | $CO_2$ equivalent | t | 0.61 | 0.61 | 0.95 |
| Max Added Quantity | | Weight | Kg | 0.9 | 0.9 | 1.6 |
| | | $CO_2$ equivalent | t | 0.61 | 0.61 | 1.08 |

*1 Energy consumption based on standard test results.
Actual energy consumption will depend on how the appliance is used and where it is located.
*2 If the outdoor unit is installed higher than the indoor unit, max. height is reduced to 10 m.
*3 SEER/SCOP values and energy efficiency class are measured when connected to the indoor units listed below.
MXZ-2HA40VF2 → MSZ-HR25VF + MSZ-HR25VF
MXZ-2HA50VF2 → MSZ-HR25VF + MSZ-HR25VF
MXZ-3HA50VF2 → MSZ-HR25VF + MSZ-HR25VF + MSZ-HR25VF
*4 This GWP value is based on Regulation(EU) No 517/2014 from IPCC 4th edition,

To ensure full capacity in cold and snowy regions...

# 3 Important Points to Remember When Installing the Outdoor Unit

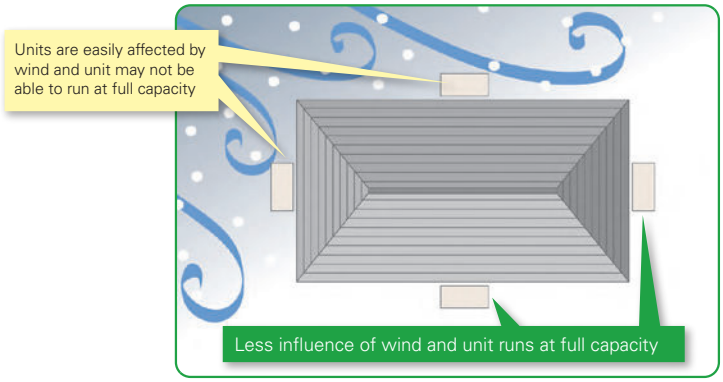


✻RAC/PAC (inc. Air to Water) /MXZ

**Wind and snow can significantly reduce capacity.**
**Be sure to check the infomation below and install the outdoor unit correctly.**

## 1 Installation Location

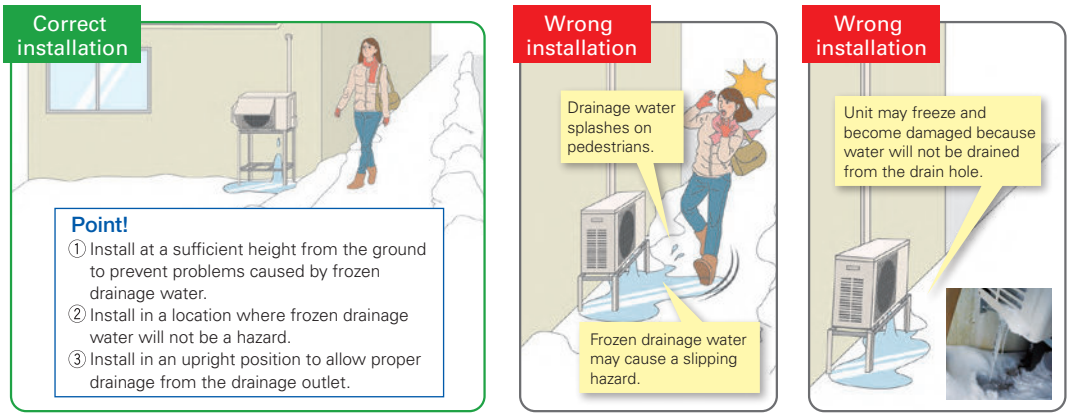
Be aware of the prevailing wind direction in winter and install the outdoor unit where it is as sheltered as possible.




## 2 Measures for Drainage of Water

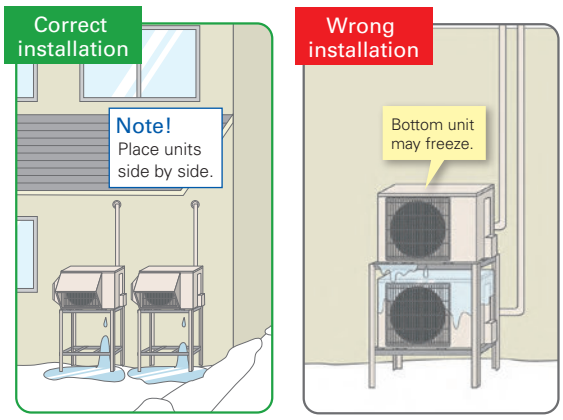
### Case 1: Unit is installed close to passage (walkway)

Do not install the unit close to passage as drainage water from the unit may freeze and cause a slipping hazard.




### Case 2: Multiple units are installed

Do not install units on top of one another as it may cause frozen drainage water on the bottom unit.



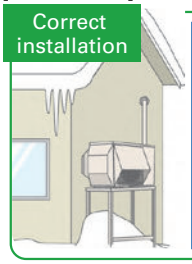
# 3 Measures for Snow

## Unit is installed on the ground

To avoid the adverse effects of snow and frozen drainage water, install the unit on a stand to ensure a sufficient height from the ground.

[RAC / PAC / MXZ]

**Correct installation**

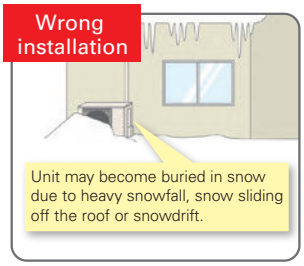


**Point!**

①Install at a position/height to prevent the unit being buried in snow*1 and the adverse effects of frozen drainage water.*2
②Install so as to avoid the effects of snow or snowdrift.
③Install so as to avoid the damage from falling snow or icicles.

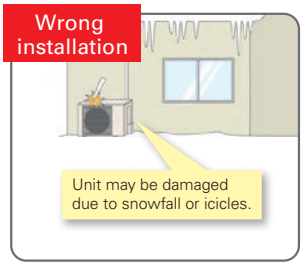
*1 Install at a height above the highest snowfall depth.
*2 Even for correct installations, dripping drainage water may form an icicle which needs to be cleared away regularly to prevent a blocked drainage outlet.

**Wrong installation**



Unit may become buried in snow due to heavy snowfall, snow sliding off the roof or snowdrift.

**Wrong installation**

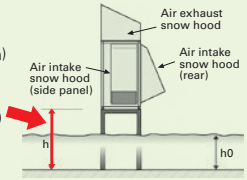


Unit may be damaged due to snowfall or icicles.

Use a stand to add sufficient height to protect the unit heat exchanger from snow and prevent icicles forming during defrost operation.

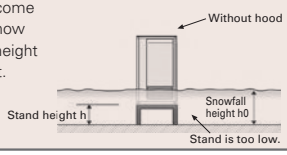
**Correct installation**

Minimum height (h) should be higher than the highest snowfall depth (h0)
+20cm




**Wrong installation**

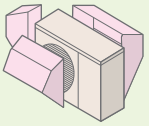
Unit may become covered in snow if the stand height is insufficient.




## Install snow protection hood as necessary

[RAC / PAC / MXZ]

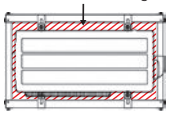
**Correct installation**



**Point!**

Install the snow protection hood or other cover in snowy regions.

### Necessity of accessories (drain socket & centralised drain pan, stand, snow protection hood, base heater)

| | Snowy region | Cold region | Remarks |
|---|---|---|---|
| | Countermeasures for snow | Countermeasures for freezing | |
| Drain socket, Centralised drain pan | Not used | Not used | Prevents freezing |
| Stand | Needed | Needed | [RAC / PAC / MXZ]<br>1. Install so as to prevent the unit being buried in snow (at a height greater than the highest snowfall depth). Be sure that the stand does not obstruct drainage.<br>2. Install so as to prevent damage to the unit due to frozen drainage water (icicles).<br><Correct> Clearance to prevent snow accumulating.  |
| Snow protection hood | Needed<br>*When the installation position is subject to snowfall. | — | 1. Prevents heat exchanger from being covered in snow.<br>2. Prevents snow accumulating inside the air duct. |
| Base heater | — | Needed | [RAC / PAC / MXZ]<br>Outdoor units equipped with a heater for cold regions are those with an "H" in the model name. For the cold-climate zone, use of a unit with a heater is strongly recommended. Even for the moderate-climate zone use of a unit with a heater is recommended for regions subject to high humidity in winter. |

## About disposal of drainage water

**⚠ CAUTION**

When the unit is installed in cold or snowy regions :

**Drainage water may freeze in the drain socket/hose and prevent the fan from rotating.**

**Do not attach a drain socket packaged as an accessory to the unit.**

✻ In the case that fitting a drain socket is absolutely necessary, steps must be taken so that the drainage water does not freeze. For more information, please consult Mitsubishi Electric or one of its dealers/resellers.

| | |
|---|---|
| **Arrangement for snow protection hood** | [RAC / PAC / MXZ]<br>Separately sold parts are available for some models.<br>Please consult Mitsubishi Electric or one of its dealers/resellers at the time of purchase for details. |

# Indoor Unit Compatibility Table

## ■ MXZ Series R32

Possible combinations of outdoor units and indoor units are shown below.

| Indoor Unit | | Outdoor Unit | Inverter Models Heat Pump Type | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | MXZ-*1 2F33VF4 | MXZ-*1 2F42VF4 | MXZ-*1 2F53VF(H)4 | MXZ-*1 2F53VFHZ2 | MXZ-*1 3F54VF4 | MXZ-*1 3F68VF4 | MXZ-*1 4F72VF4 | MXZ-*1 4F80VF4 | MXZ- 4F83VF2 | MXZ- 4F83VFHZ2 | MXZ- 5F102VF2 | MXZ- 6F120VF2 | MXZ-*1 2HA40VF2 | MXZ-*1 2HA50VF2 | MXZ-*1 3HA50VF2 |
| M series | Wall-Mounted | MSZ-RW25VG | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | MSZ-RW35VG | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | MSZ-RW50VG | | | | | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | MSZ-LN18VG2(W)(V)(R)(B) | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | MSZ-LN25VG2(W)(V)(R)(B) | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | MSZ-LN35VG2(W)(V)(R)(B) | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | MSZ-LN50VG2(W)(V)(R)(B) | | | | | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | MSZ-FT25VG | | | | ● | | | | | | ● | | | | | |
| | | MSZ-FT35VG | | | | ● | | | | | | ● | | | | | |
| | | MSZ-FT50VG | | | | | | | | | | | | | | | |
| | | MSZ-AY15VGK(P) | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | MSZ-AY20VGK(P) | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | MSZ-AY25VGK(P) | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | MSZ-AY35VGK(P) | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | MSZ-AY42VGK(P) | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | MSZ-AY50VGK(P) | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | MSZ-AP60VG(K) | | | | | | ● | ● | ● | ● | ● | ● | ● | | | |
| | | MSZ-AP71VG(K) | | | | | | | | | ● | ● | ● | ● | | | |
| | | MSZ-EF18VG(K)(W)(B)(S) | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | MSZ-EF22VG(K)(W)(B)(S) | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | MSZ-EF25VG(K)(W)(B)(S) | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | MSZ-EF35VG(K)(W)(B)(S) | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | MSZ-EF42VG(K)(W)(B)(S) | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | MSZ-EF50VG(K)(W)(B)(S) | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | MSZ-BT20VG(K) | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | MSZ-BT25VG(K) | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | MSZ-BT35VG(K) | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | MSZ-BT50VG(K) | | | | | | | | | | | | | | | |
| | | MSZ-HR25VF(K) | | | | | | | | | | | | | ● | ● | ● |
| | | MSZ-HR35VF(K) | | | | | | | | | | | | | ● | ● | ● |
| | | MSZ-HR42VF(K) | | | | | | | | | | | | | | ● | ● |
| | | MSZ-HR50VF(K) | | | | | | | | | | | | | | | ● |
| | | MSZ-HR60VF(K) | | | | | | | | | | | | | | | |
| | | MSZ-HR71VF(K) | | | | | | | | | | | | | | | |
| | | MSZ-DW25VF | | | | | | | | | | | | | ● | ● | ● |
| | | MSZ-DW35VF | | | | | | | | | | | | | ● | ● | ● |
| | | MSZ-DW50VF | | | | | | | | | | | | | | | |
| | Floor-Standing | MFZ-KT25VG | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | MFZ-KT35VG | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | MFZ-KT50VG | | | | | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | 1-way Cassette | MLZ-KP25VF | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | MLZ-KP35VF | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | MLZ-KP50VF | | | | | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | MLZ-KY20VG | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| S series | 2×2 Cassette | SLZ-M15FA2 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | SLZ-M25FA2 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | SLZ-M35FA2 | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | SLZ-M50FA2 | | | | | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | SLZ-M60FA2 | | | | | | | | | | | | | | | |
| | Ceiling-Concealed | SEZ-M25DA2 *2 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | SEZ-M25DAL2 *2 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | SEZ-M35DA2 | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | SEZ-M35DAL2 | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | SEZ-M50DA2 | | | | | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | SEZ-M50DAL2 | | | | | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | SEZ-M60DA2 | | | | | | ● | ● | ● | ● | ● | ● | ● | | | |
| | | SEZ-M60DAL2 | | | | | | ● | ● | ● | ● | ● | ● | ● | | | |
| | | SEZ-M71DA2 | | | | | | | | | ● | ● | ● | ● | | | |
| | | SEZ-M71DAL2 | | | | | | | | | ● | ● | ● | ● | | | |
| | Concealed Floor-Standing | SFZ-M25VA | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | SFZ-M35VA | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | SFZ-M50VA | | | | | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | SFZ-M60VA | | | | | | | ● | ● | ● | ● | ● | ● | | | |
| | | SFZ-M71VA | | | | | | | | | ● | ● | ● | ● | | | |
| P series | Ceiling-Suspended | PCA-M50KA2 | | | | | ● | ● | ● | ● | | | | | | | |
| | | PCA-M60KA2 | | | | | | ● | ● | ● | | | | | | | |
| | | PCA-M71KA2 | | | | | | | | | | | | | | | |
| | Ceiling-Concealed | PEAD-M35JA2 | | | | | ●*3 | ●*3 | ●*3 | ●*3 | ●*3 | ●*3*4 | ●*3 | ●*3 | | | |
| | | PEAD-M35JAL2 | | | | | ●*3 | ●*3 | ●*3 | ●*3 | ●*3 | ●*3*4 | ●*3 | ●*3 | | | |
| | | PEAD-M50JA2 | | | | | ●*3 | ●*3 | ●*3 | ●*3 | ●*3 | ●*3*4 | ●*3 | ●*3 | | | |
| | | PEAD-M50JAL2 | | | | | ●*3 | ●*3 | ●*3 | ●*3 | ●*3 | ●*3*4 | ●*3 | ●*3 | | | |
| | | PEAD-M60JA2 | | | | | | | | | ●*3 | ●*3*4 | ●*3 | ●*3 | | | |
| | | PEAD-M60JAL2 | | | | | | | | | ●*3 | ●*3*4 | ●*3 | ●*3 | | | |
| | | PEAD-M71JA2 | | | | | | | | | ●*3 | ●*3*4 | ●*3 | ●*3 | | | |
| | | PEAD-M71JAL2 | | | | | | | | | ●*3 | ●*3*4 | ●*3 | ●*3 | | | |

*1 MXZ outdoor units are not designed to operate with a single indoor unit with one-to-one piping work. Please install at least two indoor units.
*2 SEZ-M25 cannot be connected with MXZ-2F/3F/4F when total capacity of connected indoor units is equivalent to outdoor capacity (capacity ratio is 1).
*3 Maximum total current of indoor units: 3A or less
*4 P series cannot be connected with MXZ-4F83VFHZ2 when ampere limit adjustment function is operated.

# VRF

SERIES







# SELECTION

Choose from types of indoor units and outdoor units.
Create the system that best matches room shapes and number of rooms.

## R410A INDOOR UNITS

### Wall-mounted


MSZ-LN


MSZ-EF

MSZ-AY


MSZ-AP


MSZ-AP


MSZ-BT

### Cassette


SLZ


MLZ-KP


MLZ-KY

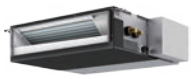
### Floor-standing


MFZ-KT

### Ceiling-suspended


PCA

### Ceiling-concealed


SEZ


PEAD

## R410A OUTDOOR UNITS

### PUMY-SP


SP112/125/140V(Y)KM2

### PUMY-P


P200YKM3


P250/300YBM2

## R32 INDOOR UNITS

### Wall-mounted


MSZ-LN


MSZ-EF

MSZ-AY


MSZ-AP


MSZ-RW


MSZ-BT

### Cassette


SLZ

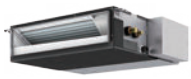

MLZ-KP


MLZ-KY

### Ceiling-suspended


PCA

### Ceiling-concealed


SEZ


PEAD

## R32 OUTDOOR UNITS

### PUMY-SM


SM112/125/140V(Y)KM

## CHECK SYSTEM COMPATIBILITY

Possible combinations depends on the outdoor unit chosen. Please check the following points.

**Check Indoor Units**

Refer to the "Indoor Unit Compatibility Table" to check if the indoor units selected can be used with the outdoor unit selected. (Indoor units not listed in the table cannot be used.)

**Check Indoor Unit Capacity Combination**

Refer to the "Combination Table" to check if the capacity combination of the indoor unit selected is connectable. (Combinations not listed cannot be connected.)

**If the desired combination cannot be found, please change either the indoor or outdoor unit to match one of the combinations shown in the tables.**

# PUMY-SP SERIES

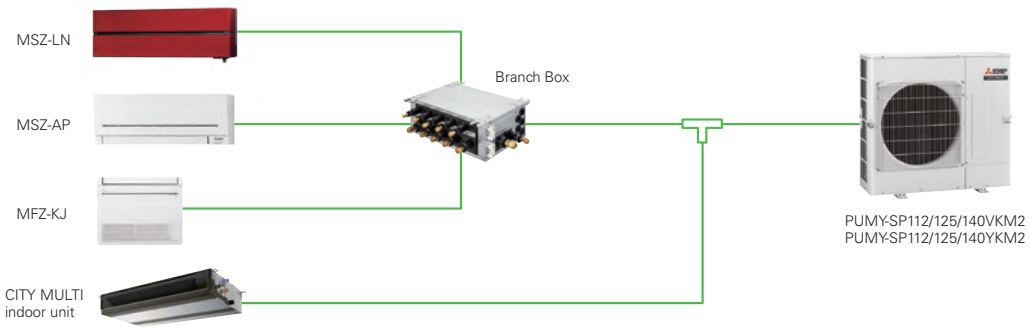
Air conditioning system supports replacement work by simplifying the installation process. Ideal for supporting renewal needs at small offices and stores, home offices, etc.



R410A

PUMY-SP112/125/140VKM2
PUMY-SP112/125/140YKM2

EXAMPLE SYSTEM




## Light weight and compact size

Compact design fits into narrow outdoor unit space of condominiums and offices.
Light weight design facilitates easy installation and transportation.



**PUMY-P112/125/140 YKM5(-BS)**

Height 1,338mm
Weight 125kg

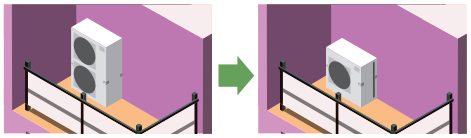


**PUMY-SP112/125/140YKM2(-BS)**

Height 981mm — 27% reduction
Weight 94kg — 25% reduction

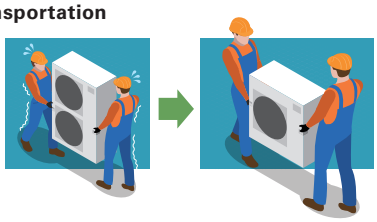
**Unobstructive, compact, and easy to hide from view**

Conventional 2-fan type outdoor units may spoil the view. Due to its compact size, the new outdoor fan unit can be installed in locations that would have been inappropriate.



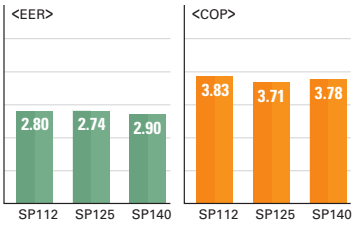
**Easy installation and transportation**

The reduced weight and height allow for better transportation performance. Carrying and installing become easier.



## Industry's top energy efficiency

Even with its compact size and light weight, it has a high EER and COP. Costs are reduced with the industry's best energy saving abilities.



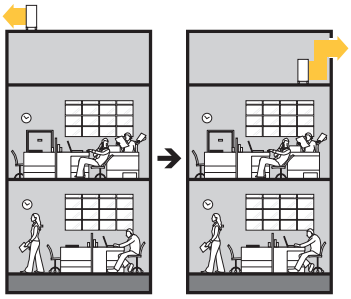

## Super silent mode*

Noise level can be reduced up to 10dB(A). This allows you to operate the unit even in the night in a residential zone.

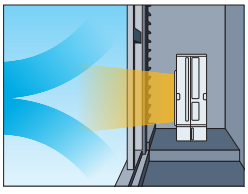
*Capacity reduction differs by mode setting.
*PAC-SC36NA-E is required to activate Super Silent mode.

## An external static pressure of 30Pa

The installation location is flexible, thanks to its 30Pa static pressure. You can install it in locations that you could not before.



An external static pressure of 30Pa allows outdoor unit to be installed on balconies in high-rise building or spaces near louvers.

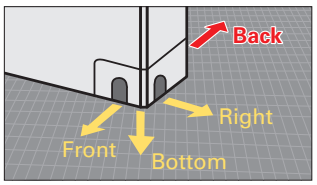


*Noise level will increase when using this function.

## Rear piping is available

**Freedom with layout due to its piping pullout locations in four directions**

The in-door unit allows piping from any four directions; front, back, bottom, or right. This enables easier horizontal connection for collective layout.
The out-door unit with an expanded piping layout flexibility greatly improves piping workability.



# PUMY-SP SERIES
INVERTER MULTI

| Model | | | | PUMY-SP112VKM2 (-BS) | PUMY-SP125VKM2 (-BS) | PUMY-SP140VKM2 (-BS) | PUMY-SP112YKM2 (-BS) | PUMY-SP125YKM2 (-BS) | PUMY-SP140YKM2 (-BS) |
|---|---|---|---|---|---|---|---|---|---|
| Power Source | | | | 1-phase 220-230-240V 50Hz, 220V 60Hz | | | 3-phase 380-400-415V 50Hz, 380V 60Hz | | |
| Cooling Capacity (Nominal) *1 | | | kW | 12.5 | 14.0 | 15.5 | 12.5 | 14.0 | 15.5 |
| | Power Input | | kW | 4.46 | 5.11 | 5.34 | 4.46 | 5.11 | 5.34 |
| | Current Input | | A | 20.69 - 19.79 - 18.97, 20.69 | 23.71 - 22.68 - 21.73, 23.71 | 24.77 - 23.70 - 22.71, 24.77 | 7.14 - 6.78 - 6.54, 7.14 | 8.18 - 7.77 - 7.49, 8.18 | 8.55 - 8.12 - 7.83, 8.55 |
| | EER | | kW / kW | 2.80 | 2.74 | 2.90 | 2.80 | 2.74 | 2.90 |
| Temp. Range of Cooling | Indoor Temp. | | W.B. | 15.0~24.0°C (59~75°F) | 15.0~24.0°C (59~75°F) | 15.0~24.0°C (59~75°F) | 15.0~24.0°C (59~75°F) | 15.0~24.0°C (59~75°F) | 15.0~24.0°C (59~75°F) |
| | Outdoor Temp.*2 | | D.B. | -5.0~52.0°C (23~126°F) | -5.0~52.0°C (23~126°F) | -5.0~52.0°C (23~126°F) | -5.0~52.0°C (23~126°F) | -5.0~52.0°C (23~126°F) | -5.0~52.0°C (23~126°F) |
| Heating Capacity (Nominal) *3 | | | kW | 14.0 | 16.0 | 16.5 | 14.0 | 16.0 | 16.5 |
| | Power Input | | kW | 3.66 | 4.31 | 4.36 | 3.66 | 4.31 | 4.36 |
| | Current Input | | A | 16.98 - 16.24 - 15.57, 16.98 | 20.00 - 19.13 - 18.33, 20.00 | 20.23 - 19.35 - 18.54, 20.23 | 5.86 - 5.57 - 5.36, 5.86 | 6.90 - 6.55 - 6.32, 6.90 | 6.98 - 6.63 - 6.39, 6.98 |
| | COP | | kW / kW | 3.83 | 3.71 | 3.78 | 3.83 | 3.71 | 3.78 |
| Temp. Range Of Heating | Indoor Temp. | | D.B. | 15.0~27.0°C (59~81°F) | 15.0~27.0°C (59~81°F) | 15.0~27.0°C (59~81°F) | 15.0~27.0°C (59~81°F) | 15.0~27.0°C (59~81°F) | 15.0~27.0°C( 59~81°F) |
| | Outdoor Temp. | | W.B. | -20.0~15.0°C (-4~59°F) | -20.0~15.0°C (-4~59°F) | -20.0~15.0°C (-4~59°F) | -20.0~15.0°C (-4~59°F) | -20.0~15.0°C (-4~59°F) | -20.0~15.0°C (-4~59°F) |
| Indoor Unit Connectable | Total Capacity | | | 50~130 % of outdoor unit capacity | 50~130 % of outdoor unit capacity | 50~130 % of outdoor unit capacity | 50~130 % of outdoor unit capacity | 50~130 % of outdoor unit capacity | 50~130 % of outdoor unit capacity |
| | Model / Quantity | | City Multi*4 | 10-140/12 | 10 - 140 / 12 | 10 - 140 / 12 | 10 - 140 / 12 | 10 - 140 / 12 | 10 - 140 / 12 |
| | | | Branch Box*5 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 |
| | Mixed System | Branch Box 1 unit | City Multi | 10 - 140 / 5 | 10 - 140 / 5 | 10 - 140 / 5 | 10 - 140 / 5 | 10 - 140 / 5 | 10 - 140 / 5 |
| | | | Branch Box*5 | 15 - 100 / 5 | 15 - 100 / 5 | 15 - 100 / 5 | 15 - 100 / 5 | 15 - 100 / 5 | 15 - 100 / 5 |
| | | Branch Box 2 units | City Multi | 10 - 140 / 3 | 10 - 140 / 3 | 10 - 140 / 3 | 10 - 140 / 3 | 10 - 140 / 3 | 10 - 140 / 3 |
| | | | Branch Box*5 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 |
| Sound Pressure Level (Measured In Anechoic Room) | | | dB <A> | 52/54 | 53/56 | 54/56 | 52/54 | 53/56 | 54/56 |
| Sound Power Level (Measured In Anechoic Room) | | | dB <A> | 72/74 | 73/76 | 74/76 | 72/74 | 73/76 | 74/76 |
| Refrigerant Piping Diameter | Liquid Pipe | | mm (in.) | 9.52 (3/8) | 9.52 (3/8) | 9.52 (3/8) | 9.52 (3/8) | 9.52 (3/8) | 9.52 (3/8) |
| | Gas Pipe | | mm (in.) | 15.88 (5/8) | 15.88 (5/8) | 15.88 (5/8) | 15.88 (5/8) | 15.88 (5/8) | 15.88 (5/8) |
| Fan | Type × Quantity | | | Propeller Fan × 1 | Propeller Fan × 1 | Propeller Fan × 1 | Propeller Fan × 1 | Propeller Fan × 1 | Propeller Fan × 1 |
| | Air Flow Rate | | $m^3$/min | 77 | 83 | 83 | 77 | 83 | 83 |
| | | | L/s | 1,283 | 1,383 | 1,383 | 1,283 | 1,383 | 1,383 |
| | | | cfm | 2,719 | 2,931 | 2,931 | 2,719 | 2,931 | 2,931 |
| | Motor Output | | kW | 0.20 × 1 | 0.20 × 1 | 0.20 × 1 | 0.20 × 1 | 0.20 × 1 | 0.20 × 1 |
| | External Static Press. | | | 0Pa / 30Pa*6 | 0Pa / 30Pa*6 | 0Pa / 30Pa*6 | 0Pa / 30Pa*6 | 0Pa / 30Pa*6 | 0Pa / 30Pa*6 |
| Compressor | Type × Quantity | | | Twin rotary hermetic compressor × 1 | | | | | |
| | Starting Method | | | Inverter | | | | | |
| | Motor Output | | kW | 3.9 | 3.9 | 4.2 | 3.9 | 3.8 | 4.1 |
| External dimension H × W × D | | | mm | 981 × 1,050 × 330 (+40) | | | | | |
| | | | in. | 38-5/8 × 41-3/8 × 13 (+1-37/64) | | | | | |
| Net Weight | | | kg (lbs) | 93 (205)*7 | | | 94 (207)*8 | | |

*1,*3 Nominal conditions

| | Indoor | Outdoor | Piping Length | Level Difference | External Static Press. (Outdoor Unit) |
|---|---|---|---|---|---|
| Cooling | 27°C DB / 19°C WB | 35°C | 7.5m (24 - 9 / 16ft.) | 0m (0ft) | 0 Pa |
| Heating | 20°C DB | 7°C DB / 6°C WB | 7.5m (24 - 9 / 16ft.) | 0m (0ft) | 0 Pa |

*2 10 to 52°C; incase of connecting PKFY-P15/P20/P25VBM, PKFY-P10/15/20/25/32VLM, PFFY-P20/P25/P32VKM, PFFY-P20/25/32VCM, PFFY-P20/P25/P32VLE(R)M indoor unit and M series indoor unit with connection kit and M series, S series, and P series type indoor unit with branch box.
*4 It is possible to connect 1 Fresh Air type indoor unit to 1 outdoor unit. (1:1 system)
*5 At least 2 indoor units must be connected when using branch box.
*6 0 Pa as initial setting
*7 94 (207), for PUMY-SP112/125/140YKM2-BS
*8 95 (209), for PUMY-SP112/125/140YKM2-BS

| Type | | | | Branch Box | |
|---|---|---|---|---|---|
| Model Name | | | | PAC-MK54BC | PAC-MK34BC |
| Connectable Number of Indoor Units | | | | Maximum 5 | Maximum 3 |
| Power Supply (from outdoor unit) | | | | ~ / N, 220 / 230 / 240 V, 50 Hz, ~ / N, 220 / 230 V, 60 Hz | |
| Input | | | kW | 0.003 | |
| Running Current | | | A | 0.05 (Max. 6) | |
| Dimensions | | H × W × D | mm | 170 × 450 × 280 | |
| Weight | | | kg | 7.4 | 6.7 |
| Piping Connection (Flare) | Branch [Indoor Side] | Liquid | mm | ø6.35 × 5 | ø6.35 × 3 |
| | | Gas | mm | ø9.52 × 4, ø12.7 × 1 | ø9.52 × 3 |
| | Main [Outdoor Side] | Liquid | mm | ø9.52 | |
| | | Gas | mm | ø15.88 | |

* The piping connection size differs according to the type and capacity of outdoor/indoor units.
Match the piping connection size of branch box with outdoor/indoor unit. If the piping connection size of branch box does not match the piping connection size of outdoor/indoor unit, use optional different-diameter (deformed) joints to the branch box side.
(Connect deformed joint directly to the branch box side.)

### <Branch box compatible table>

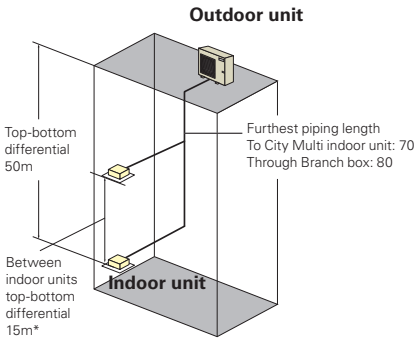
| Outdoor unit \ Branch box | | PAC-MK31/51BC(B) | PAC-MK32/52BC(B) | PAC-MK33/53BC(B) | PAC-MK33/54BC |
|---|---|---|---|---|---|
| Outdoor unit 1fan | PUMY-SP112/125/140V/YKM2(-BS) | N/A | N/A | ✓* | ✓* |
| Outdoor unit 2fan | PUMY-P112/125/140VKM6(-BS) | N/A | N/A | ✓ | ✓ |
| | PUMY-P112/125/140YKM5(-BS) | N/A | N/A | ✓ | ✓ |
| | PUMY-P200YKM3(-BS) | N/A | N/A | ✓* | ✓* |
| | PUMY-P250/300YBM2(-BS) | N/A | N/A | ✓* | ✓* |

*ecodan is NG

### [SP112–140V/YKM2(-BS)]

| Refrigerant Piping Lengths | Maximum meters |
|---|---|
| Total length | 120 |
| Maximum allowable length | To City Multi indoor unit: 70<br>Through Branch box: 80 |

| Vertical differentials between units | Maximum meters |
|---|---|
| Indoor/outdoor (outdoor higher) | 50 |
| Indoor/outdoor (outdoor lower) | 30 |
| Indoor/indoor | 15* |




*In case of branch box connection: 12m

# PUMY-P SERIES

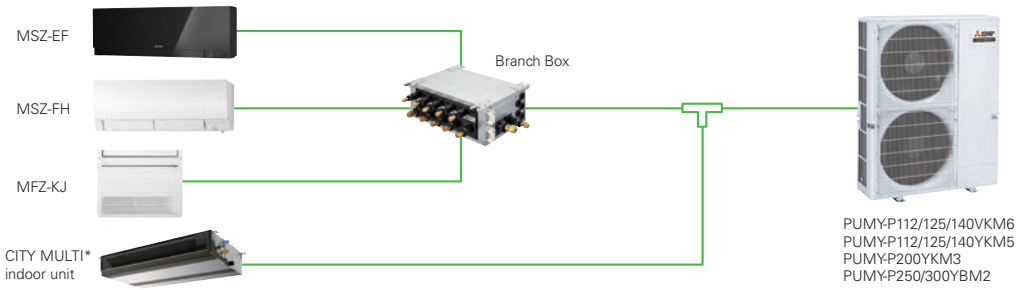
Air conditioning system supports replacement work by simplifying the installation process. Ideal for supporting renewal needs at small offices and stores, home offices, etc.



R410A

PUMY-P112/125/140VKM6
PUMY-P112/125/140YKM5
PUMY-P200YKM3
PUMY-P250/300YBM2

## EXAMPLE SYSTEM

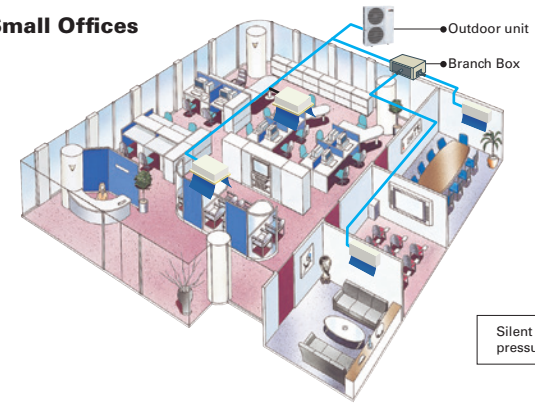



*In case of mix sytstem (CITY MULTI indoor unit with Branch box), PKFY and PFFY series are not connectable. (P112/125/140/250/300)

## The two-pipe zoned system designed for Heat Pump Operation

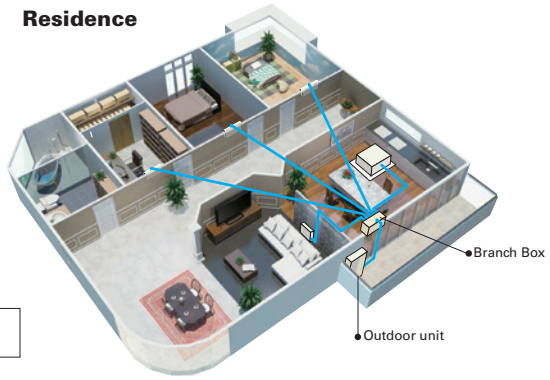
PUMY series make use of a two-pipe refrigerant system, which allows for system changeover from cooling to heating, ensuring that a constant indoor climate is maintained in all zones. The compact outdoor unit utilizes R410A refrigerant and an INVERTER-driven compressor to use energy effectively.
With a wide range of indoor unit line-up in connection with a flexible piping system, PUMY series can be configured for all applications. Up to 12 (P250/300: Up to 30) indoor units can be connected with up to 130% connected capacity to maximize engineer's design options. This feature allows easy air conditioning in each area with convenient individual controllers.

**Small Offices**




Silent mode can reduce sound pressure level by 3dB(A)

**Residence**




| | | | Maximum Meters | | | |
|---|---|---|---|---|---|---|
| | | | Only City Multi*1 Indoor Unit | Only Branch Box Connection | Mixed System (City Multi*1 Indoor Unit + Branch Box) | |
| | | | | | City Multi*1 Indoor Unit | Via Branch Box |
| P112/125/140 | Refrigerant Piping Length | Total Length | 300 | 150 | 240 (2 Branch boxes) / 300 (1 Branch box) | |
| | | Maximum Allowable Length | 150 (175 equivalent) | 80 | 85 (95 equivalent) | 80 |
| | | Farthest Indoor From First Branch | 30 | – | 30 | – |
| | | Piping Length Between Outdoor Unit and Branch Boxes | – | 55 | – | 55 |
| | Vertical Differentials Between Units | Indoor/Outdoor (Outdoor higher) | 50 | 50 | 50 | |
| | | Indoor/Outdoor(Outdoor Lower) | 40*2 | 40 | 40 | |
| | | Indoor/Indoor | 15 | 12 | 12 | |
| P200 | Refrigerant Piping Length | Total Length | 150 | 150 | 150 | |
| | | Maximum Allowable Length | 80 (90 equivalent) | 80 | 80 (90 equivalent) | 80 |
| | | Farthest Indoor From First Branch | 30 | – | 30 | – |
| | | Piping Length Between Outdoor Unit and Branch Boxes | – | 55 | – | 55 |
| | Vertical Differentials Between Units | Indoor/Outdoor (Outdoor higher) | 50 | 50 | 50 | |
| | | Indoor/Outdoor (Outdoor Lower) | 40 | 40 | 40 | |
| | | Indoor/Indoor | 15 | 12 | 12 | |
| P250/300 | Refrigerant Piping Length | Total Length | 310 | 240 | 310 | |
| | | Maximum Allowable Length | 150 (175 equivalent) | 80 | 85 (95 equivalent) | 80 |
| | | Farthest Indoor From First Branch | 30 | – | 30 | – |
| | | Piping Length Between Outdoor Unit and Branch Boxes | – | 95 | – | 95 |
| | Vertical Differentials Between Units | Indoor/Outdoor (Outdoor higher) | 50 | 50 | 50 | |
| | | Indoor/Outdoor (Outdoor Lower) | 40 | 40 | 40 | |
| | | Indoor/Indoor | 15 | 12 | 12 | |

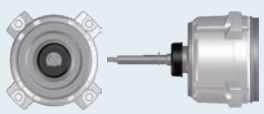
*1 Include system with connection kit *2 In case of including PKFY or PFFY, height between units is 30m.

## 30Pa external static pressure* Option (requires PAC-SJ71FM-E)

An external static pressure of 30Pa enables the outdoor unit to be installed on balconies in high-rise building or spaces near louvers.

✻PUMY-P112/125/140VKM6(-BS),PUMY-P112/125/140YKM5(-BS)only.
✻Noise level will increase when using this function.

30Pa external static pressure fan motor (option)
(PAC-SJ71FM-E)



# PUMY-P SERIES
INVERTER MULTI




| Model | | | | PUMY-P112VKM6 (-BS) | PUMY-P125VKM6 (-BS) | PUMY-P140VKM6 (-BS) | PUMY-P112YKM5 (-BS) | PUMY-P125YKM5 (-BS) | PUMY-P140YKM5 (-BS) | PUMY-P200YKM3 (-BS) | PUMY-P250YBM2 (-BS) | PUMY-P300YBM2 (-BS) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Power Source | | | | 1-phase 220-230-240V 50Hz, 220-230V 60Hz | | | 3-phase 380-400-415V 50Hz, 380V 60Hz | | | 3-phase 380-400-415V 50Hz | | |
| Cooling Capacity (Nominal) | | *1 | kW | 12.5 | 14.0 | 15.5 | 12.5 | 14.0 | 15.5 | 22.4 | 28.0 | 33.5 |
| | Power Input | | kW | 4.34 | 5.00 | 5.17 | 4.34 | 5.00 | 5.17 | 7.18 | 8.21 | 11.96 |
| | Current Input | | A | 20.03 - 19.16 - 18.36, 20.03 - 19.16 | 23.08 - 22.08 - 21.16, 23.08 - 22.08 | 23.86 - 22.83 - 21.87, 23.86 - 22.83 | 7.76 - 7.37 - 7.11, 7.76 | 8.45 - 8.02 - 7.73, 8.45 | 8.27 - 7.86 - 7.58, 8.27 | 11.73 - 11.15 - 10.75 | 13.41 - 12.74 - 12.28 | 19.54 - 18.56 - 17.89 |
| | EER | | kW / kW | 2.88 | 2.80 | 3.00 | 2.88 | 2.80 | 3.00 | 3.12 | 3.41 | 2.80 |
| Temp. Range of Cooling | Indoor Temp. | | W.B. | 15.0~24.0°C (59~75°F) | 15.0~24.0°C (59~75°F) | 15.0~24.0°C (59~75°F) | 15.0~24.0°C (59~75°F) | 15.0~24.0°C (59~75°F) | 15.0~24.0°C (59~75°F) | 15.0~24.0°C (59~75°F) | 15.0~24.0°C (59~75°F) | 15.0~24.0°C (59 ~75°F) |
| | Outdoor Temp. | *2 *3 | D.B. | -5.0~52.0°C (23~126°F) | -5.0~52.0°C (23~126°F) | -5.0~52.0°C (23~126°F) | -5.0~52.0°C (23~126°F) | -5.0~52.0°C (23~126°F) | -5.0~52.0°C (23~126°F) | -5.0~52.0°C (23~126°F) | -5.0~52.0°C (23~126°F) | -5.0~52.0°C (23~126°F) |
| Heating Capacity (Nominal) | | *4 | kW | 14.0 | 16.0 | 18.0 | 14.0 | 16.0 | 18.0 | 25.0 | 31.5 | 37.5 |
| | Power Input | | kW | 3.49 | 4.06 | 4.63 | 3.49 | 4.06 | 4.63 | 5.85 | 7.91 | 9.69 |
| | Current Input | | A | 16.11 - 15.41 - 14.77, 16.11 - 15.41 | 18.74 - 17.93 - 17.18, 18.74 - 17.93 | 21.37 - 20.44 - 19.59, 21.37 - 20.44 | 6.24 - 5.93 - 5.72, 6.24 | 6.86 - 6.52 - 6.28, 6.86 | 7.41 - 7.04 - 6.79, 7.41 | 9.56 - 9.08 - 8.76 | 12.92 - 12.28 - 11.83 | 15.83 - 15.04 - 14.50 |
| | COP | | kW / kW | 4.01 | 3.94 | 3.89 | 4.01 | 3.94 | 3.89 | 4.27 | 3.98 | 3.87 |
| Temp. Range Of Heating | Indoor Temp. | | D.B. | 15.0~27.0°C (59~81°F) | 15.0~27.0°C (59~81°F) | 15.0~27.0°C (59~81°F) | 15.0~27.0°C (59~81°F) | 15.0~27.0°C (59~81°F) | 15.0~27.0°C (59~81°F) | 15.0~27.0°C (59~81°F) | 15.0~27.0°C (59~81°F) | 15.0~27.0°C (59~81°F) |
| | Outdoor Temp. | | W.B. | -20.0~15.0°C (-4~59°F) | -20.0~15.0°C (-4~59°F) | -20.0~15.0°C (-4~59°F) | -20.0~15.0°C (-4~59°F) | -20.0~15.0° C(-4~59°F) | -20.0~15.0°C (-4~59°F) | -20.0~15.0°C (-4~59°F) | -20.0~15.0°C (-4~59°F) | -20.0~15.0°C (-4~59°F) |
| Indoor Unit Connectable | Total Capacity | | | 50~130 % of outdoor unit capacity | 50~130 % of outdoor unit capacity | 50~130 % of outdoor unit capacity | 50~130 % of outdoor unit capacity | 50~130 % of outdoor unit capacity | 50~130 % of outdoor unit capacity | 50~130 % of outdoor unit capacity | 50~130% of outdoor unit capacity | 50~130% of outdoor unit capacity |
| | Model / Quantity | | City Multi*5 | 10 - 140 / 9 | 10 - 140 / 10 | 10 - 140 / 12 | 10 - 140 / 9 | 10 - 140 / 10 | 10 - 140 / 12 | 10 - 140 / 12 | 10 - 250 / 30 | 10 - 250 / 30 |
| | | | Branch Box*6 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 50 / 12 | 15 - 50 / 12 |
| | Mixed System: Branch Box 1 unit | | City Multi | 10 - 140 / 5 | 10 - 140 / 5 | 10 - 140 / 5 | 10 - 140 / 5 | 10 - 140 / 5 | 10 - 140 / 5 | 10 - 200 / 5 | 10 - 250 / 25 | 10 - 250 / 25 |
| | | | Branch Box*6 | 15 - 100 / 5 | 15 - 100 / 5 | 15 - 100 / 5 | 15 - 100 / 5 | 15 - 100 / 5 | 15 - 100 / 5 | 15 - 100 / 5 | 15 - 100 / 5 | 15 - 100 / 5 |
| | Branch Box 2 units | | City Multi | 10 - 140 / 3 or 2*3 | 10 - 140 / 3 | 10 - 140 / 3 | 10 - 140 / 3 or 2*3 | 10 - 140 / 3 | 10 - 140 / 3 | 10 - 200 / 3 | 10 - 250 / 23 | 10 - 250 / 23 |
| | | | Branch Box*6 | 15 - 100 / 7 or 8*3 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 7 or 8*3 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 50 / 10 | 15 - 50 / 10 |
| | Branch Box 3 units | | City Multi | – | – | – | – | – | – | – | 10 - 250 / 22 | 10 - 250 / 22 |
| | | | Branch Box*6 | – | – | – | – | – | – | – | 15 - 50 / 12 | 15 - 50 / 12 |
| Sound Pressure Level (Measured In Anechoic Room) | | | dB <A> | 49/51 | 50/52 | 51/53 | 49/51 | 50/52 | 51/53 | 57/61 | 55/61 | 57/62 |
| Sound Power Level (Measured In Anechoic Room) | | | dB <A> | 69/71 | 70/72 | 71/73 | 69/71 | 70/72 | 71/73 | 76/80 | 74/79 | 75/79 |
| Refrigerant Piping Diameter | Liquid Pipe | | mm (in.) | 9.52 (3/8) | 9.52 (3/8) | 9.52 (3/8) | 9.52 (3/8) | 9.52 (3/8) | 9.52 (3/8) | 9.52 (3/8)*7 | 9.52 (3/8) *8 | 12.7 (1/2) |
| | Gas Pipe | | mm (in.) | 15.88 (5/8) | 15.88 (5/8) | 15.88 (5/8) | 15.88 (5/8) | 15.88 (5/8) | 15.88 (5/8) | 19.05 (4/3) | 22.4 (7/8) | 22.4 (7/8) |
| Fan | Type × Quantity | | | Propeller Fan × 2 | Propeller Fan × 2 | Propeller Fan × 2 | Propeller Fan × 2 | Propeller Fan × 2 | Propeller Fan × 2 | Propeller Fan × 2 | Propeller Fan × 2 | Propeller Fan × 2 |
| | Air Flow Rate | | $m^3$/min | 110 | 110 | 110 | 110 | 110 | 110 | 139/141 | 165/183 | 165/183 |
| | | | L/s | 1,833 | 1,833 | 1,833 | 1,833 | 1,833 | 1,833 | 2,317/2,350 | 2,750/3,050 | 2,750/3,050 |
| | | | cfm | 3,884 | 3,884 | 3,884 | 3,884 | 3,884 | 3,884 | 4,909/4,979 | 5,826/6,462 | 5,826/6,462 |
| | Motor Output | | kW | 0.074 × 2 | 0.074 × 2 | 0.074 × 2 | 0.074 × 2 | 0.074 × 2 | 0.074 × 2 | 0.20 × 2 | 0.375 × 2 | 0.375 × 2 |
| Compressor | Type × Quantity | | | Scroll hermetic compressor × 1 | | | | | | | | |
| | Starting Method | | | Inverter | | | | | | | | |
| | Motor Output | | kW | 2.9 | 3.5 | 3.9 | 2.9 | 3.5 | 3.9 | 5.3 | 8.87 | 10.15 |
| External Dimension H × W × D | | | mm | 1,338 × 1,050 × 330 (+40) | | | | | | | 1,662 × 1,050 × 460 (+45) | |
| | | | in. | 52-11/16 × 41-11/32 × 13 (+1-9/16) | | | | | | | 65-7/16 × 41-11/32 × 187/64 (+1-49/64) | |
| Net Weight | | | kg (lbs) | 123 (271) | | | 125 (276) | | | 141 (311) | 192 (423) | |

*1,*4 Nominal conditions

| | Indoor | Outdoor | Piping Length | Level Difference |
|---|---|---|---|---|
| Cooling | 27°C DB / 19°C WB | 35°C | 7.5m | 0m |
| Heating | 20°C DB | 7°C DB / 6°C WB | 7.5m | 0m |

*2 10 to 52°C D.B.: When connecting PKFY-P10/15/20/25/32VLM, PKFY-P15/20/25VBM, PFFY-P20/25/32VKM and PFFY-P20/25/32VCM, PFFY-P20/25/32VLE(R)M, PEFY-P-VMA3, M, S and P series indoor unit.

*3 When connecting 7 indoor units via branch box, connectable City Multi indoor units are 3; connecting 8 indoor units via branch box, connectable indoor units are 2.
*5 It is possible to connect 1 Fresh Air type indoor unit to 1 outdoor unit. (1:1 system)
*6 At least 2 indoor units must be connected when using branch box.
*7 Liquid pipe diameter: 12.7mm when piping length is more than 60m.
*8 Liquid pipe diameter: 12.7mm, when further piping length is longer than 90m, and when PEFY-P200 or P250 is connected.

| Type | | | | Branch Box | |
|---|---|---|---|---|---|
| Model Name | | | | PAC-MK54BC | PAC-MK34BC |
| Connectable Number of Indoor Units | | | | Maximum 5 | Maximum 3 |
| Power Supply (from outdoor unit) | | | | ~ / N, 220 / 230 / 240 V, 50 Hz, ~ / N, 220 / 230 V, 60 Hz | |
| Input | | | kW | 0.003 | |
| Running Current | | | A | 0.05 (Max. 6) | |
| Dimensions | | H × W × D | mm | 170 × 450 × 280 | |
| Weight | | | kg | 7.4 | 6.7 |
| Piping Connection (Flare) | Branch [Indoor Side] | Liquid | mm | ø6.35 × 5 | ø6.35 × 3 |
| | | Gas | mm | ø9.52 × 4, ø12.7 × 1 | ø9.52 × 3 |
| | Main [Outdoor Side] | Liquid | mm | ø9.52 | |
| | | Gas | mm | ø15.88 | |

* The piping connection size differs according to the type and capacity of outdoor/indoor units.
Match the piping connection size of branch box with outdoor/indoor unit.
If the piping connection size of branch box does not match the piping connection size of outdoor/indoor unit, use optional different-diameter (deformed) joints to the branch box side.
(Connect deformed joint directly to the branch box side.)

# PUMY-SM SERIES

Air conditioning system supports replacement work by simplifying the installation process. Ideal for supporting renewal needs at small offices and stores, home offices, etc.

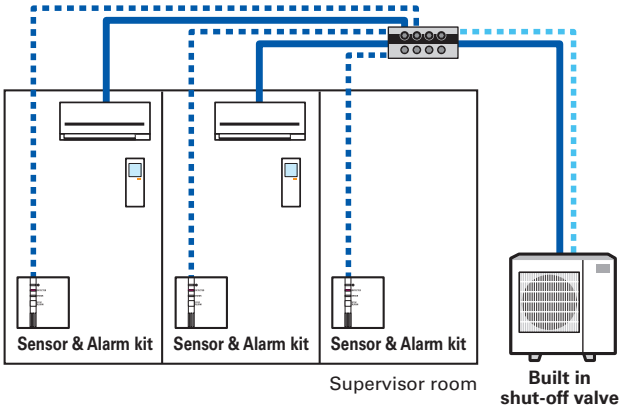


R32

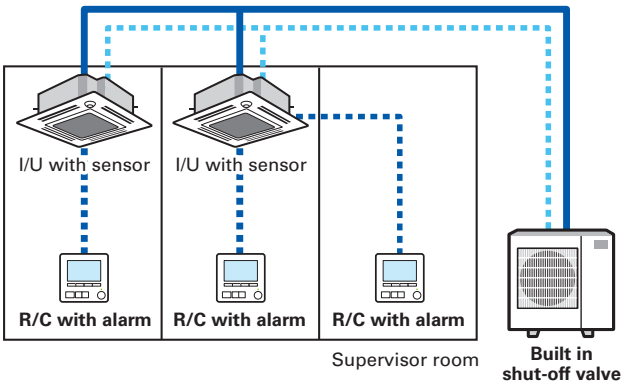
PUMY-SM112/125/140VKM
PUMY-SM112/125/140YKM

## System of R32 PUMY

### Branch box system




### Free plan system




✻ Solid lines are refrigerant piping. Dotted lines are communication lines.

## Summary of System component

### ■ S&A kit • Remote controller

| | Appearance | System | Features |
|---|---|---|---|
| S&A kit | PAC-SK60SA-E  | • Branch box | • Connected from branch box<br>• Sensor and alarm in the device<br>• Have 3 types of LED (operation, detection, error)<br>• Detection of refrigerant leakage, a kit alerts and LED flashes in red<br>• Alarm can be stopped only by a kit in a room that refrigerant leakage occurred |
| Remote controller | PAR-41MAAB  | • Free Plan | • Connected from indoor unit<br>• Alarm in the device<br>• Have a display<br>• In case of refrigerant leakage, R/C alerts and error code and address of indoor unit is shown<br>• Alarm can be stopped by a R/C in a room that refrigerant leakage occurred and a supervisor room |

✻ Can be used as a Wired remote control in a Branch box system. However, in this case, a separate S/A kit connection is required.

### ■ Branch box

| | |  |  |
|---|---|---|---|
| Model name | | PAC-MMK40BC(B) | PAC-MMK60BC |
| Number of ports | | 4 ports | 6 ports |
| Refrigerant | | R32 | R32 |
| Input(kW) | | 0.003 | 0.006 |
| Running current(A) | | 0.15 | 0.30 |
| Size(mm) | H | 170 | 170 |
| | W | 450 | 665 |
| | D | 372 | 420 |
| Installation | Ceiling-suspended | ✓ | ✓ |
| | Floor-standing | ✓ | ✓ |
| | Vertical | ✓ | ✓ |
| | No need drainpan | ✓ | ✓ |
| Connection | Flare connection | ✓ | ✓ |
| | Blazing | ✓ | – |

| Branch Piping(ø) liquid/gas [mm] | | |
|---|---|---|
| | 1st | 6.35/9.52 |
| | 2nd | 6.35/9.52 |
| | 3rd | 6.35/12.7 |
| | 4th | 6.35/9.52 |
| | 5th | 6.35/9.52 |
| | 6th | 9.52/15.88 |

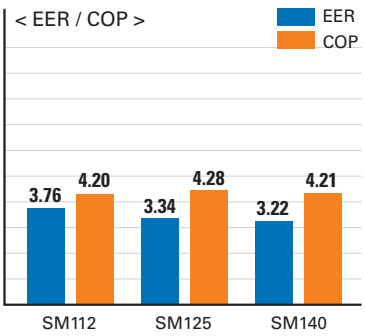
**Piping/ Wiring**
- Piping connection from both side and wiring connection from one side.
- If necessary, you need to flip over only electrical box to connect from the other side.

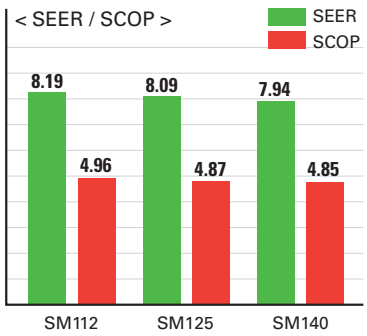
**Instability**
- Possible to make piping connection from both side.
- Flipping over only electrical box is not difficult for installer.
- ø9.52/ø15.88 can be connected to a large indoor unit placed in a living room or other large room.

## Energy efficiency

Even with its compact size and light-weight, it has a high EER and COP. Costs are reduced with the energy saving abilities.

✻ Temperature conditions
EER : Indoor 27°C DB / Outdoor 35°C DB
COP : Indoor 20°C DB / Outdoor 7°C DB
SCOP/SEER: Based on ErP Lot 21/6 calculation method to EN14825.

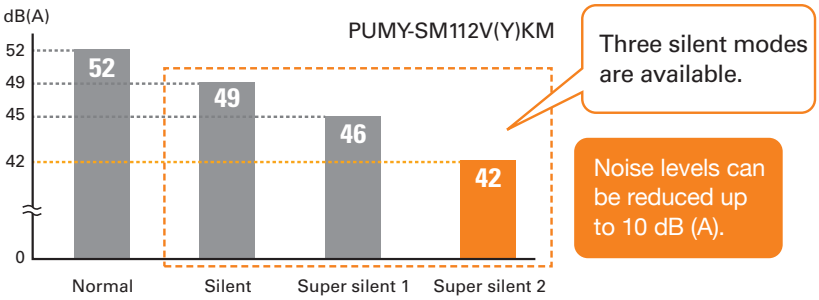



## Super silent mode*

- Noise level can be reduced up to 10dB(A).
- This allows you to operate the unit even in the night in a residential zone.

✻ Capacity reduction differs by mode setting.
✻ PAC-SC36NA-E is required to activate Super Silent mode.
✻ Cooling mode only.



# PUMY-SM SERIES
INVERTER MULTI




| Model | | | | PUMY-SM112VKM | PUMY-SM125VKM | PUMY-SM140VKM | PUMY-SM112YKM | PUMY-SM125YKM | PUMY-SM140YKM |
|---|---|---|---|---|---|---|---|---|---|
| Power source | | | | 1-phase 220-230-240V 50Hz, 220V 60Hz | | | 3-phase 380-400-415V 50Hz, 380V 60Hz | | |
| Cooling Capacity (Nominal) | | | kW | 12.5 | 14.0 | 15.5 | 12.5 | 14.0 | 15.5 |
| | Power Input | | kW | 3.32 | 4.19 | 4.81 | 3.32 | 4.19 | 4.81 |
| | Current Input | | A | 15.40 - 14.73 - 14.12 / 15.40 | 19.43 - 18.59 - 17.81 / 19.43 | 22.45 - 21.47 - 20.58 / 22.45 | 5.31 - 5.04 - 4.86 / 5.31 | 6.70 - 6.37 - 6.14 / 6.70 | 7.74 - 7.35 - 7.09 / 7.74 |
| | EER | | kW / kW | 3.76 | 3.34 | 3.22 | 3.76 | 3.34 | 3.22 |
| Temp. Range of Cooling | Indoor Temp.*1 | | W.B. | 15.0~24.0°C (59~75°F) | 15.0~24.0°C (59~75°F) | 15.0~24.0°C (59~75°F) | 15.0~24.0°C (59~75°F) | 15.0~24.0°C (59~75°F) | 15.0~24.0°C (59~75°F) |
| | Outdoor Temp.*2*3 | | D.B. | -5.0~52.0°C (23~126°F) | -5.0~52.0°C (23~126°F) | -5.0~52.0°C (23~126°F) | -5.0~52.0°C (23~126°F) | -5.0~52.0°C (23~126°F) | -5.0~52.0°C (23~126°F) |
| Heating Capacity (Nominal) | | | kW | 14.0 | 16.0 | 17.5 | 14.0 | 16.0 | 17.5 |
| | Power Input | | kW | 3.33 | 3.74 | 4.16 | 3.33 | 3.74 | 4.16 |
| | Current Input | | A | 15.45 - 14.77 - 14.16 / 15.45 | 17.30 - 16.55 - 15.86 / 17.30 | 19.25 - 18.41 - 17.64 / 19.25 | 5.33 - 5.06 - 4.88 / 5.33 | 5.97 - 5.67 - 5.46 / 5.97 | 6.64 - 6.31 - 6.08 / 6.64 |
| | COP | | kW / kW | 4.20 | 4.28 | 4.21 | 4.20 | 4.28 | 4.21 |
| Temp. Range Of Heating | Indoor Temp. | | D.B. | 15.0~27.0°C (59~81°F) | 15.0~27.0°C (59~81°F) | 15.0~27.0°C (59~81°F) | 15.0~27.0°C (59~81°F) | 15.0~27.0°C (59~81°F) | 15.0~27.0°C( 59~81°F) |
| | Outdoor Temp. | | W.B. | -20.0~15.0°C (-4~59°F) | -20.0~15.0°C (-4~59°F) | -20.0~15.0°C (-4~59°F) | -20.0~15.0°C (-4~59°F) | -20.0~15.0°C (-4~59°F) | -20.0~15.0°C (-4~59°F) |
| Indoor Unit Connectable | Total Capacity | | | 50~130 % of outdoor unit capacity | 50~130 % of outdoor unit capacity | 50~130 % of outdoor unit capacity | 50~130 % of outdoor unit capacity | 50~130 % of outdoor unit capacity | 50~130 % of outdoor unit capacity |
| | Model / Quantity | | City Multi | 10-140/12 | 10 - 140 / 12 | 10 - 140 / 12 | 10 - 140 / 12 | 10 - 140 / 12 | 10 - 140 / 12 |
| | | | Branch Box | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 |
| | | Branch box 1unit | City Multi | 10 - 140 / 3 or 5*4 | 10 - 140 / 3 or 5*4 | 10 - 140 / 3 or 5*4 | 10 - 140 / 3 or 5*4 | 10 - 140 / 3 or 5*4 | 10 - 140 / 3 or 5*4 |
| | | | Branch Box | 15 - 100 / 4 or 6*5 | 15 - 100 / 4 or 6*5 | 15 - 100 / 4 or 6*5 | 15 - 100 / 4 or 6*5 | 15 - 100 / 4 or 6*5 | 15 - 100 / 4 or 6*5 |
| | | Branch box 2unit | City Multi | 10 - 140 / 2 or 3*6 | 10 - 140 / 2 or 3*6 | 10 - 140 / 2 or 3*6 | 10 - 140 / 2 or 3*6 | 10 - 140 / 2 or 3*6 | 10 - 140 / 2 or 3*6 |
| | | | Branch Box | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 | 15 - 100 / 8 |
| Sound Presuure Level (Cooling/Heating) | | | dB <A> | 52/54 | 53/56 | 54/56 | 52/54 | 53/56 | 54/56 |
| Sound Power Level (Cooling/Heating) | | | dB <A> | 72/74 | 74/76 | 74/76 | 72/74 | 74/76 | 74/76 |
| Refrigerant Piping Diameter | Liquid Pipe | | mm (in.) | 9.52 Flare | 9.52 Flare | 9.52 Flare | 9.52 Flare | 9.52 Flare | 9.52 Flare |
| | Gas Pipe | | mm (in.) | 15.88 Flare | 15.88 Flare | 15.88 Flare | 15.88 Flare | 15.88 Flare | 15.88 Flare |
| Fan | Type × Quantity | | | Propeller Fan × 1 | Propeller Fan × 1 | Propeller Fan × 1 | Propeller Fan × 1 | Propeller Fan × 1 | Propeller Fan × 1 |
| | Air Flow Rate | | $m^3$/min | 77 | 83 | 83 | 77 | 83 | 83 |
| | | | L/s | 1,283 | 1,383 | 1,383 | 1,283 | 1,383 | 1,383 |
| | | | cfm | 2,719 | 2,931 | 2,931 | 2,719 | 2,931 | 2,931 |
| | Motor Output | | kW | 0.20 × 1 | 0.20 × 1 | 0.20 × 1 | 0.20 × 1 | 0.20 × 1 | 0.20 × 1 |
| | External Static Press. | | | 0Pa / 30Pa*7 | 0Pa / 30Pa*7 | 0Pa / 30Pa*7 | 0Pa / 30Pa*7 | 0Pa / 30Pa*7 | 0Pa / 30Pa*7 |
| Compressor | Type × Quantity | | | Twin rotary hermetic compressor × 1 | | | | | |
| | Starting Method | | | Inverter | | | | | |
| | Motor Output | | kW | 2.3 | 2.6 | 3.0 | 2.3 | 2.6 | 3.0 |
| External Dimension H × W × D | | | mm | 981 × 1,050 × 330 (+40) | | | | | |
| | | | in. | 38-5/8 × 41-3/8 × 13 (+1-37/64) | | | | | |
| Net Weight | | | kg (lbs) | 95 (209)*8 | | | 97(214) *9 | | |
| Pre-Charged Quantity | Weight | | kg | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| | $CO_2$ equivalent | | t | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 |
| Max System Quantity | Weight | | kg | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| | $CO_2$ equivalent | | t | 5.06 | 5.06 | 5.06 | 5.06 | 5.06 | 5.06 |

*1 15 to 23°C when using branch box(M/S/P series)
*2 10 to 52°C: incase of connecting PKFY-MS*VKM, PKFY-MS*VLM indoor unit and M series, S series and P series type indoor unit with branch box.
*3 -15 to 52:, when using an optional air protect guide [PAC-SH95AG-E]. However, this condition does not apply to the indoor unit listed in*1.
*4 When connected branch box is PAC-MMK60BC, connectable City Multi indoor units are 3; connected branch box is PAC-MMK40BC(B), connectable City Multi indoor units are 5.
*5 When connected branch box is PAC-MMK40BC(B), connectable indoor units via branch box are 4; connected branch box is PAC-MMK60BC, connectable indoor units via branch box are 6.
*6 When connected branch boxes are PAC-MMK40BC(B) and PAC-MMK60BC, connectable City Multi indoor units are 2; connected branch boxes are PAC-MMK40BC(B) and PAC-MMK40BC(B), connectable City Multi indoor units are 3; connected branch boxes are PAC-MMK60BC and PAC-MMK60BC are not allowed.
*7 0 Pa as initial setting
*8 96 (212), for PUMY-SM112/125/140VKM-BS
*9 98 (216), for PUMY-SM112/125/140YKM-BS

## Indoor unit connectable table

| Model | | PUMY-SM112V(Y)KM | PUMY-SM125V(Y)KM | PUMY-SM140V(Y)KM |
|---|---|---|---|---|
| CM Indoor Only | | 12 | 12 | 12 |
| Branch Box Only | | 8 | 8 | 8 |
| Mix System | CM Indoor | 3 | 3 | 3 |
| Branch Box 1unit | Branch Box | 6 | 6 | 6 |
| PAC-MMK60BC | | 9 | 9 | 9 |
| Mix System | CM Indoor | 5 | 5 | 5 |
| Branch Box 2unit | Branch Box | 4 | 4 | 4 |
| PAC-MMK40BC(B) | | 9 | 9 | 9 |
| Mix System | CM Indoor | 2 | 2 | 2 |
| Branch Box 2unit | Branch Box | 8 | 8 | 8 |
| PAC-MMK60BC + PAC-MMK40BC(B) | | 10 | 10 | 10 |
| Mix System | CM Indoor | 3 | 3 | 3 |
| Branch Box 2unit | Branch Box | 8 | 8 | 8 |
| PAC-MMK40BC(B) 2unit | | 11 | 11 | 11 |

## ■ PUMY-SP Series

Branch Box Connection Compatibility Table for PUMY-SP112/125/140

| Series | Type | Model Name | Capacity | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 15 | 18 | 20 | 22 | 25 | 35 | 42 | 50 | 60 | 71 | 100 |
| M series | Wall-Mounted | MSZ-LN•VG2 | | | | | ● | ● | | ● | | | |
| | | MSZ-RW•VG-E | | | | | ● | ● | | ● | | | |
| | | MSZ-AP•VG(K) | ● | | ● | | ● | ● | ● | ● | | | |
| | | MSZ-AY•VG(K)(P) | ● | | ● | | ● | ● | ● | ● | | | |
| | | MSZ-FH•VE2 | | | | | ● | ● | | ● | | | |
| | | MSZ-EF•VG(K) | | ● | | ● | ● | ● | ● | ● | | | |
| | | MSZ-SF•VA | ● | | ● | | | | | | | | |
| | | MSZ-AP•VF-E | ● | | ● | | | | | | | | |
| | | MSZ-SF•VE3 | | | | | ● | ● | ● | ● | | | |
| | | MSZ-GF•VE2 | | | | | | | | | ● | ● | |
| | Floor-Standing | MFZ-KT•VG | | | | | ● | ● | | ● | | | |
| | | MFZ-KJ•VE-E | | | | | ● | ● | | ● | | | |
| | 1-way Cassette | MLZ-KP•VF | | | | | ● | ● | | ● | | | |
| | | MLZ-KA•VA-E | | | | | ● | ● | | ● | | | |
| S series | Ceiling-Concealed | SEZ-M•DA(L)(2) | | | | | ●*1 | ●*1 | | ●*1 | ●*1 | ●*1 | |
| | | SEZ-KD•VA-E | | | | | ●*1 | ●*1 | | ●*1 | ●*1 | ●*1 | |
| | 2×2 Cassette | SLZ-M•FA(2) | ●*1 | | | | ●*1 | ●*1 | | ●*1 | | | |
| | | SLZ-KF•VA-E | | | | | ●*1 | ●*1 | | ●*1 | | | |
| P series | Ceiling-Suspended | PCA-M•KA(2) | | | | | | ●*1 | | ●*1 | ●*1 | ●*1 | ●*1 |
| | | PCA-RP•KAQ-E | | | | | | ●*1 | | ●*1 | ●*1 | ●*1 | ●*1 |
| | 4-way Cassette | PLA-M•EA(2) | | | | | | ●*1 | | ●*1 | ●*1 | ●*1 | ●*1 |
| | | PLA-RP•EA-E | | | | | | ●*1 | | ●*1 | ●*1 | ●*1 | ●*1 |
| | Ceiling-Concealed | PEAD-M•JA(L)(2) | | | | | | | | ●*1 | ●*1 | ●*1 | ●*1 |
| | | PEAD-RP•JAQ(L)-E | | | | | | | | ●*1 | ●*1 | ●*1 | ●*1 |

*1 Some functions that can be used by connecting to the P series outdoor unit cannot be used with the PUMY series.

LEV Kit Connection Compatibility Table for PUMY-SP112/125/140

| Series | I/U Type | Model Name | Capacity | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 15 | 18 | 20 | 22 | 25 | 35 | 42 | 50 | 60 | 71 |
| M series | Wall-Mounted | MSZ-LN•VG2 | | | | | ● | ● | | ● | | |
| | | MSZ-AP•VG(K) | ● | | ● | | ● | ● | ● | ● | | |
| | | MSZ-AY•VG(K)(P) | ● | | ● | | ● | ● | ● | ● | | |
| | | MSZ-FH•VE2 | | | | | ● | ● | | ● | | |
| | | MSZ-EF•VG(K) | | ● | | ● | ● | ● | ● | ● | | |
| | | MSZ-SF•VA | ● | | ● | | | | | | | |
| | | MSZ-AP•VF-E | ● | | ● | | | | | | | |
| | | MSZ-SF•VE3 | | | | | ● | ● | ● | ● | | |
| | Floor-Standing | MFZ-KT•VG | | | | | ● | ● | | ● | | |

CITY MULTI Indoor Unit Compatibility Table for PUMY-SP112/125/140

| Series | Type | Model Name | Capacity | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P10 | P15 | P20 | P25 | P32 | P40 | P50 | P63 | P71 | P80 | P100 | P125 | P140 | P200 |
| CITY MULTI series | 1-way cassette | PMFY-P•VBM-E | | | ● | ● | ● | ● | | | | | | | | |
| | 2-way cassette | PLFY-P•VLMD-E | | | ● | ● | ● | ● | ● | ● | | ● | ● | ● | | |
| | 4-way cassette | PLFY-M•VEM-E | | | ● | ● | ● | ● | ● | ● | | ● | ● | ● | | |
| | | PLFY-M•VEM6-E | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| | | PLFY-P•VBM-E | | | | | ● | ● | ● | ● | | ● | ● | ● | | |
| | | PLFY-P•VEM-E | | | | | ● | ● | ● | ● | | ● | ● | ● | | |
| | | PLFY-P•VCM-E | | ● | ● | ● | ● | ● | | | | | | | | |
| | | PLFY-P•VFM-E | | ● | ● | ● | ● | ● | ● | | | | | | | |
| | Ceiling-concealed | PEFY-P•VMR-E-L/R | | | ● | ● | ● | | | | | | | | | |
| | | PEFY-P•VMS1(L)-E | | ● | ● | ● | ● | ● | ● | ● | | | | | | |
| | | PLFY-P•VMA(L)-E | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | PEFY-M•VMA(L)-A(1) | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | PEFY-P•VMH(S)-E | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | PEFY-P•VMH-E-F | | | | | | | | | | ● | | | ● | |
| | | PEFY-P•VMHS-E-F | | | | | | | | | | | | ● | | |
| | Ceiling-suspended | PCFY-P•VKM-E | ● | | | | | ● | | ● | | | ● | ● | | |
| | Wall-mounted | PKFY-P•VLM-E | ● | ● | ● | ● | ● | ● | ● | | | | | | | |
| | | PKFY-P•VBM-E | | ● | ● | ● | | | | | | | | | | |
| | | PKFY-P•VHM-E | | | | | ● | ● | ● | | | | | | | |
| | | PKFY-P•VKM-E | | | | | | | | ● | | | ● | | | |
| | Built in | PDFY-P•VM-E | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| | Floor-standing | PFFY-P•VKM-E2 | | | ● | ● | ● | ● | | | | | | | | |
| | | PFFY-P•VLEM-E | | | ● | ● | ● | ● | ● | ● | | | | | | |
| | | PFFY-P•VLRM-E | | | ● | ● | ● | ● | ● | ● | | | | | | |
| | | PFFY-P•VLRMM-E | | | ● | ● | ● | ● | ● | ● | | | | | | |
| | | PFFY-P•VCM-E | | | ● | ● | ● | ● | ● | ● | | | | | | |
| | Lossnay *1 | | GUF-50/100RD(H)4 | | | | | | | | | | | | | |

*1 Do not connect Lossnay remote controller(s). (PZ-61DR-E, PZ-60DR-E, PZ-52SF-E, PZ-43SMF-E)

## ■ PUMY-P Series

Branch Box Connection Compatibility Table for PUMY-P112/125/140/200

| Series | Type | Model Name | Capacity | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 15 | 18 | 20 | 22 | 25 | 35 | 42 | 50 | 60 | 71 | 100 |
| M series | Wall-Mounted | MSZ-LN•VG2 | | | | | ● | ● | | ● | | | |
| | | MSZ-AP•VG(K) | ● | | ● | | ● | ● | ● | ● | | | |
| | | MSZ-AY•VG(K)(P) | ● | | ● | | ● | ● | ● | ● | | | |
| | | MSZ-FH•VE2 | | | | | ● | ● | | ● | | | |
| | | MSZ-EF•VE | | ● | | ● | ● | ● | ● | ● | | | |
| | | MSZ-EF•VG(K) | | ● | | ● | ● | ● | ● | ● | | | |
| | | MSZ-SF•VA | ● | | ● | | | | | | | | |
| | | MSZ-AP•VF | ● | | ● | | | | | | | | |
| | | MSZ-SF•VE3 | | | | | ● | ● | ● | ● | | | |
| | | MSZ-GF•VE2 | | | | | | | | | ● | ● | |
| | Floor-Standing | MFZ-KT•VG | | | | | ● | ● | | ● | | | |
| | | MFZ-KJ•VE-E | | | | | ● | ● | | ● | | | |
| | 1-way Cassette | MLZ-KP•VF | | | | | ● | ● | | ● | | | |
| | | MLZ-KA•VA-E | | | | | ● | ● | | ● | | | |
| S series | Ceiling-Concealed | SEZ-M•DA(L) | | | | | ● | ● | | ● | ● | ● | |
| | | SEZ-KD•VA-E | | | | | ● | ● | | ● | ● | ● | |
| | | SEZ-M•DA(L)2-E | | | | | | ● | | ● | ● | ● | |
| | 2×2 Cassette | SLZ-M•FA(2) | ● | | | | ● | ● | | ● | | | |
| | | SLZ-KF•VA-E | | | | | ● | ● | | ● | | | |
| P series | Ceiling-Suspended | PCA-M•KA(2) | | | | | | ● | | ● | ● | ● | ● |
| | | PCA-RP•KAQ-E | | | | | | ● | | ● | ● | ● | ● |
| | 4-way Cassette | PLA-M•EA(2) | | | | | | ● | | ● | ● | ● | ● |
| | | PLA-RP•EA-E | | | | | | ● | | ● | ● | ● | ● |
| | Ceiling-Concealed | PEAD-M•JA(L) | | | | | | | | ● | ● | ● | ● |
| | | PEAD-RP•JA(L)Q-E | | | | | | | | ● | ● | ● | ● |
| | | PEAD-M•DA(L)2 | | | | | | | | ● | ● | ● | ● |

LEV Kit Connection Compatibility Table for PUMY-P112/125/140/200

| Series | I/U Type | Model Name | Capacity | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 15 | 18 | 20 | 22 | 25 | 35 | 42 | 50 | 60 | 71 |
| M series | Wall-Mounted | MSZ-LN•VG2 | | | | | ● | ● | | ● | | |
| | | MSZ-AP•VG(K) | ● | | ● | | ● | ● | ● | ● | | |
| | | MSZ-AY•VG(K)(P) | ● | | ● | | ● | ● | ● | ● | | |
| | | MSZ-FH•VE2 | | | | | ● | ● | | ● | | |
| | | MSZ-EF•VG(K) | | ● | | ● | ● | ● | ● | ● | | |
| | | MSZ-SF•VA | ● | | ● | | | | | | | |
| | | MSZ-SF•VE3 | | | | | ● | ● | ● | ● | | |
| | Floor-Standing | MFZ-KT•VG | | | | | ● | ● | | ● | | |

CITY MULTI Indoor Unit Compatibility Table for PUMY-P112/125/140

| Series | Type | Model Name | Capacity | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P10 | P15 | P20 | P25 | P32 | P40 | P50 | P63 | P71 | P80 | P100 | P125 | P140 | P200 |
| CITY MULTI series | 1-way cassette | PMFY-P•VBM-E | | | ● | ● | ● | ● | | | | | | | | |
| | 2-way cassette | PLFY-P•VLMD-E | | | ● | ● | ● | ● | ● | ● | | ● | ● | ● | | |
| | 4-way cassette | PLFY-M•VEM-E | | | ● | ● | ● | ● | ● | ● | | ● | ● | ● | | |
| | | PLFY-M•VEM6-E | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| | | PLFY-P•VFM-E | | ● | ● | ● | ● | ● | ● | | | | | | | |
| | Ceiling-concealed | PEFY-P•VMR-E-L/R | | | ● | ● | ● | | | | | | | | | |
| | | PEFY-P•VMS1(L)-E | | ● | ● | ● | ● | ● | ● | ● | | | | | | |
| | | PEFY-M•VMA(L)-A(1) | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | PEFY-P•VMHS-E | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | PEFY-P•VMHS-E-F | | | | | | | | | | | | ● | | |
| | Ceiling-suspended | PCFY-P•VKM-E | | | | | | ● | | ● | | | ● | ● | | |
| | Wall-mounted | PKFY-P•VLM-E | ● | ● | ● | ● | ● | ● | ● | | | | | | | |
| | | PKFY-P•VKM-E | | | | | | | | ● | | | ● | | | |
| | Floor-standing | PFFY-P•VKM-E2 | | | ● | ● | ● | ● | | | | | | | | |
| | | PFFY-P•VLEM-E | | | ● | ● | ● | ● | ● | ● | | | | | | |
| | | PFFY-P•VLRM-E | | | ● | ● | ● | ● | ● | ● | | | | | | |
| | | PFFY-P•VLRMM-E | | | ● | ● | ● | ● | ● | ● | | | | | | |
| | | PFFY-P•VCM-E | | | ● | ● | ● | ● | ● | ● | | | | | | |
| | ATW | PWFY-P•VM-E1 *1 | | | | | | | | | | | ● | | | |
| | Lossnay *2 | | GUF-50/100RD(H)4 | | | | | | | | | | | | | |

CITY MULTI Indoor Unit Compatibility Table for PUMY-P200

| Series | Type | Model Name | Capacity | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P10 | P15 | P20 | P25 | P32 | P40 | P50 | P63 | P71 | P80 | P100 | P125 | P140 | P200 |
| CITY MULTI series | 1-way cassette | PMFY-P•VBM-E | | | ● | ● | ● | ● | | | | | | | | |
| | 2-way cassette | PLFY-P•VLMD-E | | | ● | ● | ● | ● | ● | ● | | ● | ● | ● | | |
| | 4-way cassette | PLFY-M•VEM-E | | | ● | ● | ● | ● | ● | ● | | ● | ● | ● | | |
| | | PLFY-M•VEM6-E | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| | | PLFY-P•VFM-E | | ● | ● | ● | ● | ● | ● | | | | | | | |
| | Ceiling-concealed | PEFY-P•VMR-E-L/R | | | ● | ● | ● | | | | | | | | | |
| | | PEFY-M•VMA(L)-A(1) | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | | PEFY-P•VMHS-E | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | | PEFY-P•VMHS-E-F | | | | | | | | | | | | | | ● |
| | Ceiling-suspended | PCFY-P•VKM-E | | | | | | ● | | ● | | | ● | ● | | |
| | Wall-mounted | PKFY-P•VLM-E | ● | ● | ● | ● | ● | ● | ● | | | | | | | |
| | | PKFY-P•VKM-E | | | | | | | | ● | | | ● | | | |
| | Floor-standing | PFFY-P•VKM-E2 | | | ● | ● | ● | ● | | | | | | | | |
| | | PFFY-P•VLEM-E | | | ● | ● | ● | ● | ● | ● | | | | | | |
| | | PFFY-P•VLRM-E | | | ● | ● | ● | ● | ● | ● | | | | | | |
| | | PFFY-P•VLRMM-E | | | ● | ● | ● | ● | ● | ● | | | | | | |
| | | PFFY-P•VCM-E | | | ● | ● | ● | ● | ● | ● | | | | | | |
| | Lossnay *2 | | GUF-50/100RD(H)4 | | | | | | | | | | | | | |

*1 Note that connection is not allowed inside EU countries and UK. PWFY can not connect to PUMY-P200YKM3.
*2 Do not connect Lossnay remote controller(s). (PZ-61DR-E, PZ-60DR-E, PZ-52SF-E, PZ-43SMF-E)

## ■ PUMY-P Series

Branch Box Connection Compatibility Table for PUMY-P250/300

| Series | Type | Model Name | Capacity | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 15 | 18 | 20 | 22 | 25 | 35 | 42 | 50 | 60 | 71 | 100 |
| M series | Wall-Mounted | MSZ-LN•VG2 | | | | | ● | ● | | ● | | | |
| | | MSZ-RW•VG-E | | | | | ● | ● | | ● | | | |
| | | MSZ-AP•VG(K) | ● | | ● | | ● | ● | ● | | | | |
| | | MSZ-AY•VG(K)(P) | ● | | ● | | ● | ● | ● | ● | | | |
| | | MSZ-FH•VE2 | | | | | ● | ● | | ● | | | |
| | | MSZ-EF•VG(K) | | ● | | ● | ● | ● | ● | | | | |
| | Floor-Standing | MSZ-KT•VG | | | | | ● | ● | | ● | | | |
| S series | Ceiling Concealed | SEZ-M•DA(L)2 | | | | | ● | ● | | ● | ● | ● | |
| | 2×2 Cassette | SLZ-M•FA2 | ● | | | | ● | ● | | ● | | | |
| P series | Ceiling Suspended | PCA-M•KA2 | | | | | | ● | | ● | ● | ● | ● |
| | 4-way Cassette | PCA-M•EA2 | | | | | | ● | | ● | ● | ● | ● |
| | Ceiling Concealed | PEAD-M•JA(2) | | | | | | | | ● | ● | ● | ● |

LEV Kit Connection Compatibility Table for PUMY-P250/300

| Series | I/U Type | Model Name | Capacity | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 15 | 18 | 20 | 22 | 25 | 35 | 42 | 50 |
| M series | Wall-Mounted | MSZ-LN•VG2 | | | | | ● | ● | | ● |
| | | MSZ-AP•VG(K) | ● | | ● | | ● | ● | ● | |
| | | MSZ-AY•VG(K)(P) | ● | | ● | | ● | ● | ● | ● |
| | | MSZ-FH•VE2 | | | | | ● | ● | | ● |
| | | MSZ-EF•VG(K) | | ● | | ● | ● | ● | ● | |
| | Floor-Standing | MFZ-KT•VG | | | | | ● | ● | | ● |

CITY MULTI Indoor Unit Compatibility Table for PUMY-P250/300

| Series | Type | Model Name | Capacity | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P10 | P15 | P20 | P25 | P32 | P40 | P50 | P63 | P71 | P80 | P100 | P125 | P140 | P200 | P250 |
| CITY MULTI series | 1-way cassette | PMFY-P•VBM-E | | | ● | ● | ● | ● | | | | | | | | | |
| | 2-way cassette | PLFY-P•VLMD-E | | | ● | ● | ● | ● | ● | ● | | ● | ● | ● | | | |
| | 4-way cassette | PLFY-M•VEM-E | | | ● | ● | ● | ● | ● | ● | | ● | ● | ● | | | |
| | | PLFY-M•VEM6-E | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | | PLFY-P•VFM-E | | ● | ● | ● | ● | ● | ● | | | | | | | | |
| | Ceiling-concealed | PEFY-P•VMR-E-L/R | | | ● | ● | ● | | | | | | | | | | |
| | | PEFY-P•VMS1(L)-E | | ● | ● | ● | ● | ● | ● | ● | | | | | | | |
| | | PEFY-M•VMA(L)-A | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| | | PEFY-P•VMA(L)-A1 | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| | | PEFY-P•VMHS-E | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | | PEFY-P•VMHS-E-F | | | | | | | | | | | | | | | ● |
| | Ceiling-suspended | PCFY-P•VKM-E | | | | | | ● | | ● | | | ● | ● | | | |
| | Wall-mounted | PKFY-P•VLM-E | ● | ● | ● | ● | ● | ● | ● | | | | | | | | |
| | | PKFY-P•VKM-E | | | | | | | | ● | | | ● | | | | |
| | Floor-standing | PFFY-P•VKM-E2 | | | ● | ● | ● | ● | | | | | | | | | |
| | | PFFY-P•VLEM-E | | | ● | ● | ● | ● | ● | ● | | | | | | | |
| | | PFFY-P•VCM-E | | | ● | ● | ● | ● | ● | ● | | | | | | | |
| | Lossnay *1 | | GUF-50/100RD(H)4 | | | | | | | | | | | | | | |

*1 Do not connect Lossnay remote controller(s). (PZ-61DR-E, PZ-60DR-E, PZ-52SF-E, PZ-43SMF-E)

## ■ PUMY-SM Series

Branch Box Connection Compatibility Table for PUMY-SM112/125/140

| Model Name | | 15 | 18 | 20 | 22 | 25 | 35 | 42 | 50 | 60 | 71 | 100 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M series | MSZ-RW•VG | | | | | | | | ● | | | |
| | MSZ-LN•VG2 | | | | | ● | ● | | ● | | | |
| | MSZ-AP•VG(K) | ● | | ● | | ● | ● | ● | ● | | | |
| | MSZ-AY•VG(K)(P) | ● | | ● | | ● | ● | ● | ● | | | |
| | MSZ-EF•VG(K) | | ● | | ● | ● | ● | ● | ● | | | |
| | MSZ-BT•VG(K) | | | | | ● | ● | | | | | |
| | MLZ-KY•VG | | | ● | | | | | | | | |
| | MLZ-KP•VF | | | | | ● | ● | | ● | | | |
| S series | SEZ-M•DA(L)2 | | | | | ● | ● | | ● | ● | ● | |
| | SLZ-M•FA2 | ● | | | | ● | ● | | ● | | | |
| P series | PCA-M•KA2 | | | | | | ● | | ● | ● | ● | ● |
| | PLA-M•EA2 | | | | | | ● | | ● | ● | ● | ● |
| | PEAD-M•JA(L)2 | | | | | | | | ● | ● | ● | ● |

CITY MULTI Indoor Unit Compatibility Table for PUMY-SM112/125/140

| Model Name | | Sensor | 10 | 15 | 20 | 25 | 32 | 40 | 50 | 63 | 71 | 80 | 100 | 125 | 140 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CITY MULTI series | PLFY-M•VEM6-E | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | PEFY-M•VMA(L)-A1 | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | PLFY-MS•VEM-E | ✓ | | | ● | ● | ● | ● | ● | ● | | ● | ● | ● | |
| | PLFY-MS•VFM-E | ✓ | | ● | ● | ● | ● | ● | ● | | | | | | |
| | PCFY-MS•VKM-E | ✓ | | | | | | ● | | ● | | | ● | ● | |
| | PKFY-MS•VLM-E | ✓ | ● | ● | ● | ● | ● | ● | ● | | | | | | |
| | PKFY-MS•VKM-E | ✓ | | | | | | | | ● | | | ● | | |
| | PEFY-MS•VMA(L)-A | ✓ | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

# Outdoor Unit Functions

## Demand control

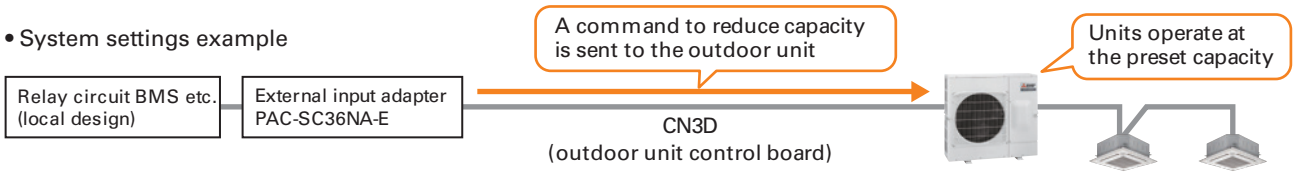
This function reduces the capacity of the outdoor/heat source unit by way of the external input to the outdoor unit.
The capacity of the outdoor unit can be reduced in steps, with patterns ranging from 2 to 12 control steps depending on the system. The number of steps that can be set and the corresponding capacity are shown below.

• 2 steps (0-100%) • 4 steps (0-50-75-100%) • 8 steps (0-25-38-50-63-75-88-100%) • 12 steps (0-17-25-34-42-50-59-67-75-84-92-100%)

**Possible usage**

When power consumption is centrally-controlled within a building, the system can be made to operate in capacity-save mode by receiving external signals.

• System settings example




## Pump down function

This function collects the refrigerant that remains in the indoor unit and the outdoor/heat source unit piping when the refrigerant piping needs to be removed, such as when the air conditioner is relocated.
This function can also be used to stop the operation of the indoor unit and return the refrigerant to the outdoor/heat source unit in the event that a r efrigerant leak is detected.

* To detect a refrigerant leak, a circuit that includes a refrigerant leak detection sensor must be designed and prepared on site.

## Dual set point

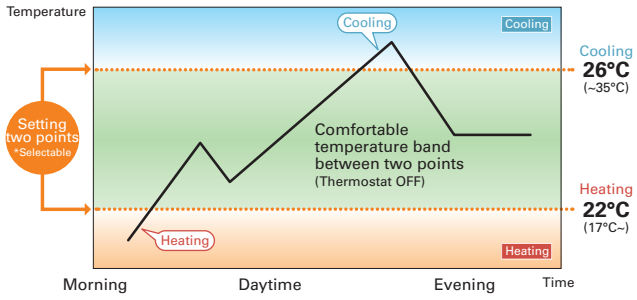
Normally, the desired room temperature is set to the same value for cooling and heating. However, the dual set point function allows different temperatures to be set for cooling and heating. When operation switches from cooling to heating or vice versa, the preset temperature changes accordingly.

### Setting dual set points in Auto mode on R2 models improves energy efficiency, compared to setting a single set point.

When the operation mode is set to Auto (dual set point) mode, two preset temperatures (one each for cooling and heating) can be set. Depending on the room temperature, the indoor unit will automatically operate in either the cooling or heating mode and keep the room temperature within the preset range.
The outdoor unit does not operate in the comfortable temperature band defined by two temperature points where the thermostat is off. This cuts down on unnecessary operation of the air conditioning system.

* This function is supported only when all the indoor units, remote controllers, and system controllers that are connected to a given group are compatible with the function.

• Operation pattern in Auto (dual set point) mode




## Individual LEV control

Even if one of the indoor units stops for repair, the LEV of the indoor unit can be closed so that the other indoor units can continue to operate. (No preliminary setting is necessary.)

