MITSUBISHI ELECTRIC

SPLIT-TYPE AIR CONDITIONERS

*Changes for the Better*

Mitsubishi Electric Quality

Wrap Yourself in Comfort and Quiet
Eco-conscious Technologies from Japan

# Full Product Line Catalogue 2016

for a greener tomorrow eco Changes

# MULTI SPLIT SERIES

# SELECTION

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

## STEP 1 SELECT INDOOR UNITS

Select the indoor unit to be installed in each room.

### Wall-mounted


MSZ-FH


MSZ-EF


MSZ-SF (15･20)


MSZ-SF (25･50)


MSZ-GF

### Floor-standing


MFZ-KJ

### Cassette


SLZ-KF


PLA


MLZ-KA

### Ceiling-suspended


PCA

### Ceiling-concealed


SEZ-KD


PEAD

## STEP 2 SELECT OUTDOOR UNITS

Select the best outdoor unit based on the number of indoor units and overall system capacity required.

**2-port** up to 2 indoor units


MXZ-2D33VA
MXZ-2D42VA2
MXZ-2D53VA(H)2

**3-port** up to 3 indoor units


MXZ-3E54VA
MXZ-3E68VA

**4-port** up to 4 indoor units


MXZ-4E72VA
MXZ-4E83VA

HYPER HEATING*

**2-port**
up to 2 indoor units


MXZ-2E53VAHZ

**5-port** up to 5 indoor units


MXZ-5E102VA

**6-port** up to 6 indoor units


MXZ-6D122VA

**4-port**
up to 4 indoor units


MXZ-4E83VAHZ

*Refer to page105 and page 113 for detailed information.

## STEP 3 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.)

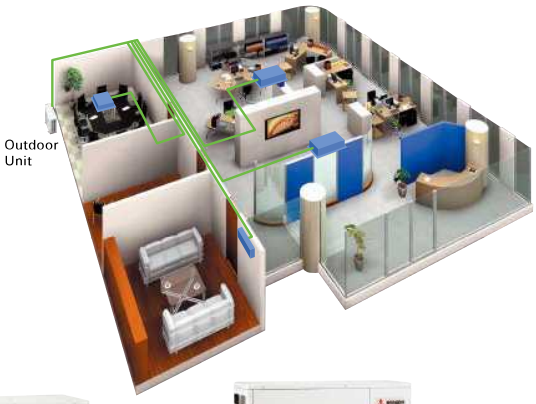
**Check Indoor Unit Capacity Combination**

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.




2-port

MXZ-2D33VA
MXZ-2D42VA2
MXZ-2D53VA(H)2

3-port 4-port

MXZ-3E54VA
MXZ-3E68VA
MXZ-4E72VA

4-port 5-port

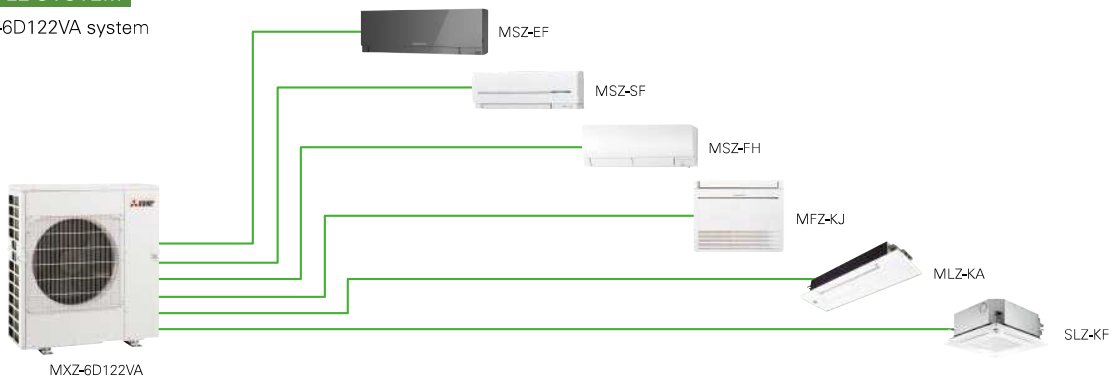
MXZ-4E83VA
MXZ-5E102VA

6-port

MXZ-6D122VA

EXAMPLE SYSTEM

MXZ-6D122VA system




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

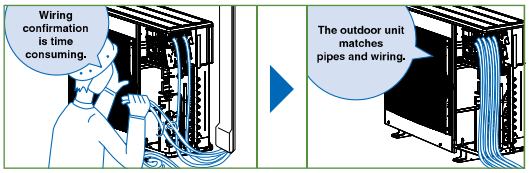
The MXZ Series offers a ten-system line-up to choose from, ranging between 3.3 and 12.2kW. All of them are compatible with specific M, S and P series indoor units. A single outdoor unit can handle a wide range of building layouts.

## Support Functions

### Wiring/Piping Correction Function* (3E54/3E68/4E72/4E83/5E102/6D122)

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.




### Ampere Limit Adjustment* (4E83/5E102/6D122)

Dipswitch settings can be used to adjust the maximum electrical current for operation. This function is highly recommended for managing energy costs. (For details, refer to the outdoor unit installation manual.)

* Maximum capacity is lowered with the use of this function.

### 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 (*4) | | | | | | | | |
| Outdoor Unit | | | | [N] MXZ-2D33VA | [N] MXZ-2D42VA2 | [N] MXZ-2D53VA2 | [N] MXZ-2D53VAH2 | [N] MXZ-3E54VA | [N] MXZ-3E68VA | [N] MXZ-4E72VA | MXZ-4E83VA | MXZ-5E102VA |
| Refrigerant | | | | R410A*1 | | | | | | | | |
| Power Supply | Source | | | Outdoor power supply | | | | | | | | |
| | Outdoor (V/Phase/Hz) | | | 230 / Single / 50 | | | | | | | | |
| Cooling | Capacity | Rated | kW | 3.3 | 4.2 | 5.3 | 5.3 | 5.4 | 6.8 | 7.2 | 8.3 | 10.2 |
| | | Min - Max | kW | 1.1 - 3.8 | 1.1 - 4.4 | 1.1 - 5.6 | 1.1 - 5.6 | 2.9 - 6.8 | 2.9 - 8.4 | 3.7 - 8.8 | 3.7 - 9.2 | 3.9 - 11.0 |
| | Input (Indoor+Outdoor) | Rated | kW | 0.90 | 1.00 | 1.54 | 1.54 | 1.35 | 2.19 | 2.25 | 2.44 | 3.15 |
| | Design Load | | kW | 3.3 | 4.2 | 5.3 | 5.3 | 5.4 | 6.8 | 7.2 | 8.3 | 10.2 |
| | Annual Electricity Consumption*2 | | kWh/a | 211 | 216 | 262 | 262 | 295 | 425 | 443 | 460 | 537 |
| | SEER*4 | | | 5.5 | 6.8 | 7.1 | 7.1 | 6.4 | 5.6 | 5.7 | 6.3 | 6.6 |
| | | Energy Efficiency Class*4 | | A | A++ | A++ | A++ | A++ | A+ | A+ | A++ | A++ |
| Heating (Average Season) | Capacity | Rated | kW | 4.0 | 4.5 | 6.4 | 6.4 | 7.0 | 8.6 | 8.6 | 9.3 | 10.5 |
| | | Min - Max | kW | 1.0 - 4.1 | 1.0 - 4.8 | 1.0 - 7.0 | 1.0 - 7.0 | 2.6 - 9.0 | 2.6 - 10.6 | 3.4 - 10.7 | 3.4 - 11.6 | 4.1 - 14.0 |
| | Input (Indoor+Outdoor) | Rated | kW | 0.96 | 0.93 | 1.70 | 1.70 | 1.59 | 2.38 | 2.28 | 2.00 | 2.34 |
| | Design Load | | kW | 2.7 | 3.2 | 4.5 | 4.5 | 5.0 | 6.8 | 7.0 | 8.7 | 8.9 |
| | Declared Capacity | at reference design temperature | kW | 2.1 | 2.7 | 3.7 | 3.6 | 4.0 | 5.4 | 5.6 | 7.1 | 7.3 |
| | | at bivalent temperature | kW | 2.4 | 3.0 | 4.0 | 4.0 | 4.49 | 6.0 | 6.2 | 7.8 | 7.9 |
| | | at operation limit temperature | kW | 1.7 | 2.3 | 3.3 | 3.0 | 3.17 | 4.4 | 4.7 | 6.0 | 6.3 |
| | Back Up Heating Capacity | | kW | 0.6 | 0.5 | 0.8 | 0.9 | 1.0 | 1.4 | 1.4 | 1.6 | 1.6 |
| | Annual Electricity Consumption*2 | | kWh/a | 926 | 1065 | 1507 | 1546 | 1751 | 2466 | 2516 | 2884 | 2958 |
| | SCOP*4 | | | 4.1 | 4.2 | 4.2 | 4.1 | 4.0 | 3.9 | 3.9 | 4.2 | 4.2 |
| | | Energy Efficiency Class*4 | | 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 | 21.4 | 21.4 |
| Outdoor Unit | Dimensions | H × W × D | mm | 550 - 800 (+69) - 285 (+59.5) | | | | 710 - 840 (+30) - 330 (+66) | | | 796 - 950 - 330 | |
| | Weight | | kg | 32 | 37 | 37 | 38 | 58 | 58 | 59 | 62 | 63 |
| | Air Volume | Cooling | $m^3$/min | 32.9 | 27.7 | 32.9 | 32.9 | 42.1 | 42.1 | 42.1 | 55.6 | 65.1 |
| | | Heating | $m^3$/min | 33.7 | 33.3 | 33.3 | 33.3 | 43.0 | 43.0 | 43.0 | 55.6 | 68.0 |
| | Sound Level (SPL) | Cooling | dB(A) | 49 | 46 | 50 | 50 | 50 | 50 | 50 | 49 | 52 |
| | | Heating | dB(A) | 50 | 51 | 53 | 53 | 53 | 53 | 53 | 51 | 56 |
| | Sound Level (PWL) | Cooling | dB(A) | 63 | 60 | 64 | 64 | 64 | 64 | 64 | 61 | 65 |
| | Breaker Size | | A | 10 | 15 | 15 | 15 | 25 | 25 | 25 | 25 | 25 |
| Ext. Piping | 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 × 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+9.52×4 |
| | Total Piping Length (max) | | m | 20 | 30 | 30 | 30 | 50 | 60 | 60 | 70 | 80 |
| | Each Indoor Unit Piping Length (max) | | m | 15 | 20 | 20 | 20 | 25 | 25 | 25 | 25 | 25 |
| | Max. Height | | m | 10 | 15 (10)*3 | 15 (10)*3 | 15 (10)*3 | 15 (10)*3 | 15 (10)*3 | 15 (10)*3 | 15 (10)*3 | 15 (10)*3 |
| | Chargeless Length | | m | 20 | 20 | 20 | 20 | 40 | 40 | 40 | 25 | 0 |
| Guaranteed Operating Range [Outdoor] | | Cooling | ℃ | −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 |

N: Please refer to the NOTE below.

| Type (Inverter Multi - Split Heat Pump) | | | | Up to 6 Indoor Units |
|---|---|---|---|---|
| Indoor Unit | | | | Please refer to (*5) |
| Outdoor Unit | | | | MXZ-6D122VA |
| Refrigerant | | | | R410A*1 |
| Power Supply | Source | | | Outdoor power supply |
| | Outdoor (V/Phase/Hz) | | | 230 / Single / 50 |
| Cooling | Capacity | Rated | kW | 12.2 |
| | | Min - Max | kW | 3.5 - 13.5 |
| | Input*5 | Rated | kW | 3.66 |
| | EER*6 | | | 3.33 |
| | | EEL Rank | | A |
| Heating | Capacity | Rated | kW | 14.0 |
| | | Min - Max | kW | 3.5 - 16.5 |
| | Input*5 | Rated | kW | 3.31 |
| | COP*6 | | | 4.23 |
| | | EEL Rank | | A |
| Operating Current (max)*5 | | | A | 26.8 |
| Outdoor Unit | Dimensions | H × W × D | mm | 1048 - 950 - 330 |
| | Weight | | kg | 88 |
| | Air Volume | Cooling | $m^3$/min | 63.0 |
| | | Heating | $m^3$/min | 77.0 |
| | Sound Level (SPL) | Cooling | dB(A) | 55 |
| | | Heating | dB(A) | 57 |
| | Sound Level (PWL) | Cooling | dB(A) | 69 |
| | Breaker Size | | A | 32 |
| Ext. Piping | 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 (10)*3 |
| | Chargeless Length | | m | 30 |
| Guaranteed Operating Range [Outdoor] | | Cooling | ℃ | −10 ~ +46 |
| | | Heating | ℃ | −15 ~ +24 |

**NOTE**

When connecting the MFZ-KJ series indoor unit(s) to this outdoor unit, charge additional refrigerant according to the instructions in the diagram below.

**MXZ-2D33VA**

| No. of MFZ-KJ indoor units | Pipe length (L) | Maximum amount of refrigerant |
|---|---|---|
| | ~20m | |
| 1 unit | 100g additional (Total 1250g) | 1250g |
| 2 units | Not available (Only one MFZ-KJ series indoor unit can be connected.) | |

**MXZ-2D42VA2 MXZ-2D53VA2 MXZ-2D53VAH2**

| No. of MFZ-KJ indoor units | Pipe length (L) | | Maximum amount of refrigerant |
|---|---|---|---|
| | ~20m | ~30m | |
| 1 unit | 100g additional (Total 1400g) | 100g+{(L-20)m×20g/m)} | 1600g |
| 2 units | 200g additional (Total 1500g) | 200g+{(L-20)m×20g/m)} | 1700g |

**MXZ-3E54VA**

| No. of MFZ-KJ indoor units | Pipe length (L) | | Maximum amount of refrigerant |
|---|---|---|---|
| | ~40m | ~50m | |
| 1 unit | 100g additional (Total 2800g) | 100g+{(L-40)m×20g/m)} | 3000g |
| 2 units | 200g additional (Total 2900g) | 200g+{(L-40)m×20g/m)} | 3100g |
| 3 units | 300g additional (Total 3000g) | 300g+{(L-40)m×20g/m)} | 3200g |

**MXZ-3E68VA MXZ-4E72VA**

| No. of MFZ-KJ indoor units | Pipe length (L) | | Maximum amount of refrigerant |
|---|---|---|---|
| | ~40m | ~60m | |
| 1 unit | 100g additional (Total 2800g) | 100g+{(L-40)m×20g/m)} | 3200g |
| 2 units | 200g additional (Total 2900g) | 200g+{(L-40)m×20g/m)} | 3300g |
| 3 units | 300g additional (Total 3000g) | 300g+{(L-40)m×20g/m)} | 3400g |

*1 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 1975. This means that if 1kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1kg 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.

*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

*3 If the outdoor unit is installed higher than the indoor unit, max. height is reduced to 10m.

*4 EER/COP, EEL rank, SEER/SCOP values and energy efficiency class are measured when connected to the indoor units listed below.

MXZ-2D33VA → MSZ-SF15VA + MSZ-EF18VE
MXZ-2D42VA2 → MSZ-EF18VE + MSZ-EF25VE
MXZ-2D53VA(H)2 → MSZ-EF18VE + MSZ-EF35VE
MXZ-3E54VA → MSZ-EF18VE + MSZ-EF18VE + MSZ-EF18VE
MXZ-3E68VA → MSZ-EF18VE + MSZ-EF25VE + MSZ-EF25VE
MXZ-4E72VA → MSZ-EF18VE + MSZ-EF18VE + MSZ-EF18VE + MSZ-EF18VE
MXZ-4E83VA → MSZ-EF18VE + MSZ-EF18VE + MSZ-EF22VE + MSZ-EF25VE
MXZ-5E102VA → MSZ-EF18VE + MSZ-EF18VE + MSZ-EF22VE + MSZ-EF22VE + MSZ-EF22VE

*5 Power input and operating current (max) figures are for outdoor unit only

*6 EER/COP, EEL rank, values and energy efficiency class are measured when connected to the indoor units listed below.

MXZ-6D122VA → MSZ-EF22VE × 6

# MXZ-DM SERIES

Multi-port outdoor units exclusively for MSZ-HJ and DM indoor units.

2-port

MXZ-2DM40VA

3-port

MXZ-3DM50VA

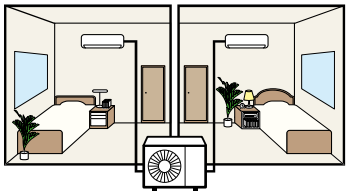
## Stylish Design with Flat Panel Front

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

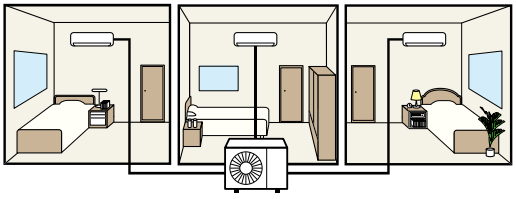
## Easy to create various combinations

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

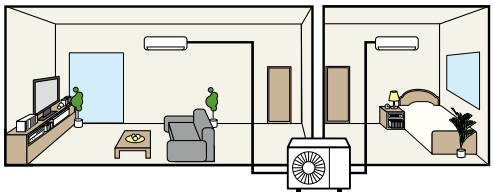
Two bedrooms



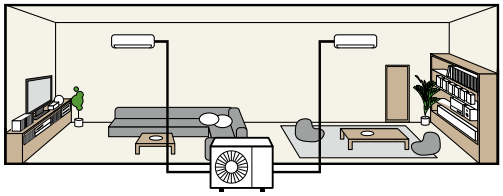
Three bedrooms



Living room and one bedroom

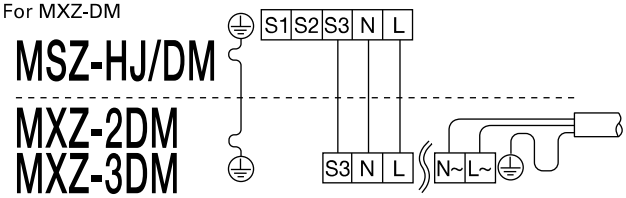


Wide living room

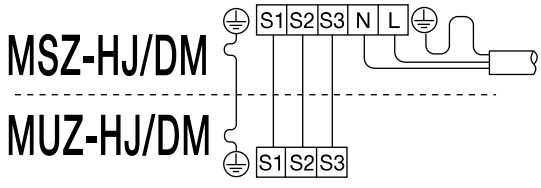


Attention MXZ-DM is exclusively for connection to MSZ-HJ and DM.
Please check to make sure that wiring is done correctly.

For MXZ-DM




For MSZ-HJ/DM / MUZ-HJ/DM



# MXZ-DM SERIES

INVERTER MULTI

| Type (Inverter Multi - Split Heat Pump) | | | | | Up to 2 Indoor Units | Up to 3 Indoor Units |
|---|---|---|---|---|---|---|
| Indoor Unit | | | | | Please refer to (*4) | |
| Outdoor Unit | | | | | MXZ-2DM40VA | MXZ-3DM50VA |
| Refrigerant | | | | | R410A*1 | |
| Power Supply | Source | | | | Outdoor power supply | |
| | Outdoor (V/Phase/Hz) | | | | 230 / Single / 50 | |
| Cooling | Capacity | | Rated | kW | 4.0 | 5.0 |
| | Input*4 | | Rated | kW | 1.05 | 1.13 |
| | EER*4 | | | | 3.81 | 4.42 |
| | | EEL Rank*4 | | | A | A |
| | Design Load | | | kW | 4.0 | 5.0 |
| | Annual Electricity Consumption*2 | | | kWh/a | 226 | 283 |
| | SEER*4 | | | | 6.1 | 6.1 |
| | | Energy Efficiency Class*4 | | | A++ | A++ |
| Heating (Average Season) | Capacity | | Rated | kW | 4.3 | 6.0 |
| | Input | | Rated | kW | 1.16 | 1.31 |
| | COP*4 | | | | 3.71 | 4.58 |
| | | EEL Rank*4 | | | A | A |
| | Design Load | | | kW | 3.2 | 4.0 |
| | Declared Capacity | at reference design temperature | | kW | 2.73 | 3.34 |
| | | at bivalent temperature | | kW | 3.01 | 3.73 |
| | | at operation limit temperature | | kW | 2.27 | 2.70 |
| | Back Up Heating Capacity | | | kW | 0.47 | 0.66 |
| | Annual Electricity Consumption*2 | | | kWh/a | 1105 | 1455 |
| | SCOP*4 | | | | 4.0 | 3.8 |
| | | Energy Efficiency Class*4 | | | A+ | A |
| Operating Current (max) | | | | A | 12.2 | 18.0 |
| Outdoor Unit | Dimensions | | H × W × D | mm | 550 - 800 (+69) - 285 (+59.5) | 710 - 840 (+30) - 330 (+66) |
| | Weight | | | kg | 32 | 57 |
| | Air Volume | | Cooling | $m^3$/min | 29.2 | 37.5 |
| | | | Heating | $m^3$/min | 31.9 | 39.6 |
| | Sound Level (SPL) | | Cooling | dB(A) | 48 | 50 |
| | | | Heating | dB(A) | 52 | 53 |
| | Sound Level (PWL) | | Cooling | dB(A) | 63 | 64 |
| | Operating Current | | Cooling | A | 5.1 | 5.0 |
| | | | Heating | A | 5.6 | 5.8 |
| | Breaker Size | | | A | 15 | 25 |
| Ext. Piping | Port Diameter | | Liquid / Gas | mm | 6.35 × 2 / 9.52 × 2 | 6.35 × 3 / 9.52 × 3 |
| | Total Piping Length (max) | | | m | 30 | 50 |
| | Each Indoor Unit Piping Length (max) | | | m | 20 | 25 |
| | Max. Height | | | m | 15 (10)*3 | 15 (10)*3 |
| | Chargeless Length | | | m | 20 | 40 |
| Guaranteed Operating Range [Outdoor] | | | Cooling | ℃ | −10 ~ +46 | |
| | | | Heating | ℃ | −15 ~ +24 | |

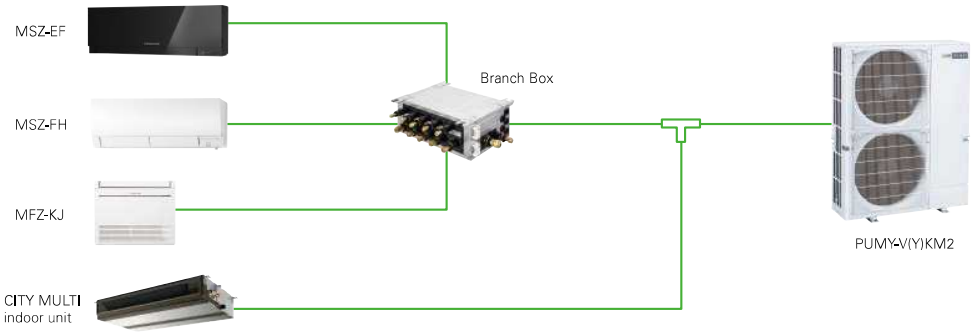
*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 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.
*2 Energy consumption based on standard test results.Actual energy consumption will depend on how the appliance is used and where it is located.
*3 If the outdoor unit is installed higher than the indoor unit, max hight is reduced to 10m.
*4 EER/COP, EEL rank, SEER/SCOP values and energy efficiency class are measured when connected to the indoor units listed below.
MXZ-2DM40VA MSZ-DM25VA + MSZ-DM25VA
MXZ-3DM50VA MSZ-DM25VA + MSZ-DM25VA + MSZ-DM25VA

# PUMY 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.

PUMY-P112/125/140VKM2(-BS)
PUMY-P112/125/140YKM2(-BS)

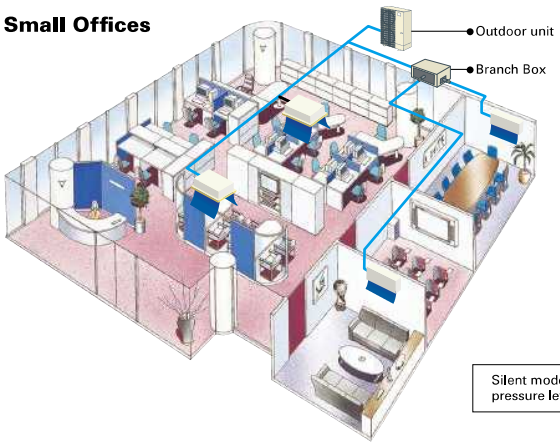
## EXAMPLE SYSTEM



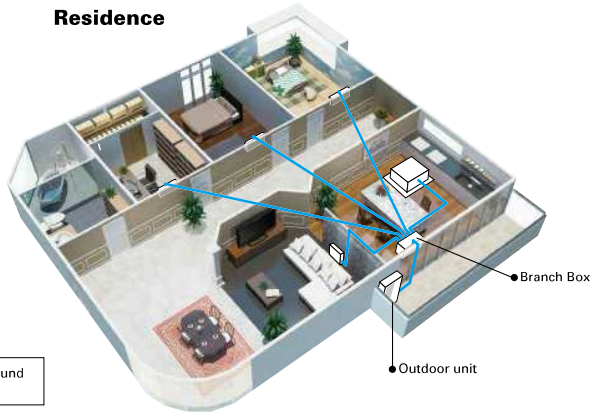

## The two-pipe zoned system designed for Heat Pump Operation

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 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**




**Residence**

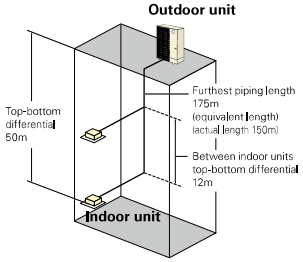



Silent mode can reduce sound pressure level by 3dB(A)

**[P112–140V/YKM2(-BS)]**

| Refrigerant Piping Lengths | Maximum meters |
|---|---|
| Total length | 300 |
| Maximum allowable length | 150 (175 equivalent) |
| Farthest indoor from first branch | 30 |

| Vertical differentials between units | Maximum meters |
|---|---|
| Indoor/outdoor (outdoor higher) | 50 |
| Indoor/outdoor (outdoor lower) | 40 |
| Indoor/indoor | 12 |



# PUMY SERIES
INVERTER MULTI


| Model | | | | PUMY-P112VKM2(-BS) | PUMY-P125VKM2(-BS) | PUMY-P140VKM2(-BS) | PUMY-P112YKM2(-BS) | PUMY-P125YKM2(-BS) | PUMY-P140YKM2(-BS) |
|---|---|---|---|---|---|---|---|---|---|
| Power Source | | | | 1-phase 220 - 240V 50Hz | | | 3-phase 380 - 415V 50Hz | | |
| Cooling Capacity (nominal) | | *1 | kW | 12.5 | 14.0 | 15.5 | 12.5 | 14.0 | 15.5 |
| | Power Input | | kW | 2.79 | 3.46 | 4.52 | 2.79 | 3.46 | 4.52 |
| | Current Input | | A | 12.87 - 12.32 - 11.80 | 15.97 - 15.27 - 14.64 | 20.86 - 19.95 - 19.12 | 4.46 - 4.24 - 4.09 | 5.53 - 5.26 - 5.07 | 7.23 - 6.87 - 6.62 |
| | EER | | kW/kW | 4.48 | 4.05 | 3.43 | 4.48 | 4.05 | 3.43 |
| Temp. Range of Cooling*5 | Indoor Temp. | | W.B. | 15.0 - 24.0°C | 15.0 - 24.0°C | 15.0 - 24.0°C | 15.0 - 24.0°C | 15.0 - 24.0°C | 15.0 - 24.0°C |
| | Outdoor Temp. | | D.B. | -5.0 - 46°C | -5.0 - 46°C | -5.0 - 46°C | -5.0 - 46°C | -5.0 - 46°C | -5.0 - 46°C |
| Heating Capacity (nominal) | | *2 | kW | 14.0 | 16.0 | 18.0 | 14.0 | 16.0 | 18.0 |
| | Power Input | | kW | 3.04 | 3.74 | 4.47 | 3.04 | 3.74 | 4.47 |
| | Current Input | | A | 14.03 - 13.42 - 12.86 | 17.26 - 16.51 - 15.82 | 20.63 - 19.73 - 18.91 | 4.86 - 4.62 - 4.45 | 5.98 - 5.68 - 5.48 | 7.15 - 6.79 - 6.55 |
| | COP | | kW/kW | 4.61 | 4.28 | 4.03 | 4.61 | 4.28 | 4.03 |
| Temp. Range of Heating | Indoor Temp. | | D.B. | 15.0 - 27.0°C | 15.0 - 27.0°C | 15.0 - 27.0°C | 15.0 - 27.0°C | 15.0 - 27.0°C | 15.0 - 27.0°C |
| | Outdoor Temp. | | W.B. | -20.0 - 15.0°C | -20.0 - 15.0°C | -20.0 - 15.0°C | -20.0 - 15.0°C | -20.0 - 15.0°C | -20.0 - 15.0°C |
| Indoor Unit Connectable | Total Capacity | | | 50 to 130% of outdoor unit capacity | | | | | |
| | Model / Quantity | | City Multi | 15 - 140/9 | 15 - 140/10 | 15 - 140/12 | 15 - 140/9 | 15 - 140/10 | 15 - 140/12 |
| | | | Branch Box | 15 - 100/8 | 15 - 100/8 | 15 - 100/8 | 15 - 100/8 | 15 - 100/8 | 15 - 100/8 |
| | | | Mixed System | 15 - 140*3/10 | 15 - 140*3/10*4 | 15 - 140*3/10*4 | 15 - 140*3/10 | 15 - 140*3/10*4 | 15 - 140*3/10*4 |
| Sound Pressure Level (measured in anechoic room) | | | dB <A> | 49 / 51 | 50 / 52 | 51 / 53 | 49 / 51 | 50 / 52 | 51 / 53 |
| Refrigerant Piping Diameter | Liquid Pipe | | mm | 9.52 Flare | | | | | |
| | Gas Pipe | | mm | 15.88 Flare | | | | | |
| Fan | Type x Quantity | | | Propeller Fan x 2 | | | | | |
| | Air Flow Rate | | m³/min | 110 | | | | | |
| | | | L/s | 1,883 | | | | | |
| | | | cfm | 3,884 | | | | | |
| | Motor Output | | kW | 0.06 + 0.06 | | | | | |
| Compressor | Type x Quantity | | | Scroll hermetic compressor x 1 | | | | | |
| | Starting Method | | | Inverter | | | | | |
| | Motor Output | | kW | 2.9 | 3.5 | 3.9 | 2.9 | 3.5 | 3.9 |
| External Dimensions (H x W x D) | | | mm | 1,338×1,050×330 (+25) | | | | | |
| Weight | | | kg | 122 | | | 125 | | |

*1,*2 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 |

*3 Up to P100 when connecting via branch box.
*4 Up to 11 units when connecting via 2 branch boxes
*5 10 to 46°C D.B.: When connecting PKFY-P15/20/25VBM, PFFY-P20/25/32VKM and PFFY-P20/25/32VLE(R)M type indoor unit.

| Type | | | | Branch Box | | | |
|---|---|---|---|---|---|---|---|
| Model Name | | | | PAC-MK51BC | PAC-MK31BC | PAC-MK51BCB | PAC-MK31BCB |
| Connectable Number of Indoor Units | | | | Max. 5 | Max. 3 | Max. 5 | Max. 3 |
| Power Supply | Source | | | Outdoor power supply, Branch Box / Outdoor separate power supply | | | |
| | Outdoor (V/Phase/Hz) | | | Single phase, 220/230/240V, 50Hz, Single phase, 220V, 60Hz | | | |
| Total Input | | | kW | 0.003 | | | |
| Operating Current | | | A | 0.05 | | | |
| Dimensions | H x W x D | | mm | 170 - 450 - 280 | | | |
| Weight | | | kg | 7.4 | 6.7 | 7.0 | 6.5 |
| Piping [diameter] | Branch [Indoor Side] | Liquid | mm | 6.35 x 5 | 6.35 x 3 | 6.35 x 5 | 6.35 x 3 |
| | | Gas | mm | 9.52 x 4, 12.7 x 1 | 9.52 x 3 | 9.52 x 4, 12.7 x 1 | 9.52 x 3 |
| | Main [Outdoor Side] | Liquid | mm | 9.52 | | | |
| | | Gas | mm | 15.88 | | | |
| | Connection Method | | | Flared | | Brazed | |
| Wiring | to Indoor Unit | | | 3-wire + Earth wire | | | |
| | to Outdoor Unit | | | 3-wire + Earth wire | | | |

# Indoor Unit Compatibility Table

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

| Indoor Unit \ Outdoor Unit | | | Inverter Models Heat pump type | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | MXZ-[*4] 2D33VA | MXZ-[*4] 2D42VA2 | MXZ-[*4] 2D53VA(H)2 | MXZ-[*4] 2E53VAHZ | MXZ-[*4] 2DM40VA | MXZ-[*4] 3E54VA | MXZ-[*4] 3E68VA | MXZ-[*4] 3DM50VA | MXZ-[*4] 4E72VA | MXZ-[*4] 4E83VA | MXZ-[*4] 4E83VAHZ | MXZ-[*4] 5E102VA | MXZ-[*4] 6D122VA |
| M series | Wall-Mounted | MSZ-FH25VE2 | ● | ● | ● | ● | | ● | ● | | ● | ● | ● | ● | ● |
| | | MSZ-FH35VE2 | | ● | ● | ● | | ● | ● | | ● | ● | ● | ● | ● |
| | | MSZ-FH50VE2 | | | | | | ● | ● | | ● | ● | ● | ● | ● |
| | | MSZ-EF18VE3W/B/S | ● | ● | ● | ● | | ● | ● | | ● | ● | ● | ● | ● |
| | | MSZ-EF22VE3W/B/S | ● | ● | ● | ● | | ● | ● | | ● | ● | ● | ● | ● |
| | | MSZ-EF25VE3W/B/S | ● | ● | ● | ● | | ● | ● | | ● | ● | ● | ● | ● |
| | | MSZ-EF35VE3W/B/S | | ● | ● | ● | | ● | ● | | ● | ● | ● | ● | ● |
| | | MSZ-EF42VE3W/B/S | | | ● | ● | | ● | ● | | ● | ● | ● | ● | ● |
| | | MSZ-EF50VE3W/B/S | | | ● | ● | | ● | ● | | ● | ● | ● | ● | ● |
| | | MSZ-SF15VA | ● | ● | ● | ● | | ● | ● | | ● | ● | ● | ● | ● |
| | | MSZ-SF20VA | ● | ● | ● | ● | | ● | ● | | ● | ● | ● | ● | ● |
| | | MSZ-SF25VE3 | ● | ● | ● | ● | | ● | ● | | ● | ● | ● | ● | ● |
| | | MSZ-SF35VE3 | | ● | ● | ● | | ● | ● | | ● | ● | ● | ● | ● |
| | | MSZ-SF42VE3 | | | ● | ● | | ● | ● | | ● | ● | ● | ● | ● |
| | | MSZ-SF50VE3 | | | ● | ● | | ● | ● | | ● | ● | ● | ● | ● |
| | | MSZ-GF60VE2 | | | | | | | ●*2 | | ●*2 | ●*2 | ●*2 | ●*2 | ●*2 |
| | | MSZ-GF71VE2 | | | | | | | | | | ●*2 | ●*2 | ●*2 | ●*2 |
| | | MSZ-DM25VA | | | | | ● | | | ● | | | | | |
| | | MSZ-DM35VA | | | | | ● | | | ● | | | | | |
| | | MSZ-HJ25VA | | | | | ● | | | ● | | | | | |
| | | MSZ-HJ35VA | | | | | ● | | | ● | | | | | |
| | | MSZ-HJ50VA | | | | | | | | ● | | | | | |
| | Floor-Standing | MFZ-KJ25VE | ●*5*6 | ●*5 | ●*5 | ● | | ●*5 | ●*5 | | ● | ● | ● | ● | ● |
| | | MFZ-KJ35VE | | ●*5 | ●*5 | ● | | ●*5 | ●*5 | | ● | ● | ● | ● | ● |
| | | MFZ-KJ50VE | | | | | | ●*5 | ●*5 | | ● | ● | ● | ● | ● |
| | 1-way Cassette | MLZ-KA25VA | ● | ● | ● | ● | | ● | ● | | ● | ● | ● | ● | ● |
| | | MLZ-KA35VA | | ● | ● | ● | | ● | ● | | ● | ● | ● | ● | ● |
| | | MLZ-KA50VA | | | | | | ● | ● | | ● | ● | ● | ● | ● |
| S series | 4-way Cassette | SLZ-KF25VA2 | ● | ● | ● | ● | | ● | ● | | ● | ● | ● | ● | ● |
| | | SLZ-KF35VA2 | | ● | ● | ● | | ● | ● | | ● | ● | ● | ● | ● |
| | | SLZ-KF50VA2 | | | | | | ● | ● | | ● | ● | ● | ● | ● |
| | | SLZ-KF60VA2 | | | | | | | | | | | | | |
| | Ceiling-Concealed | SEZ-KD25VAQ[*3] | ● | ● | ● | ● | | ● | ● | | ● | ● | ● | ● | ● |
| | | SEZ-KD25VAL[*3] | ● | ● | ● | ● | | ● | ● | | ● | ● | ● | ● | ● |
| | | SEZ-KD35VAQ | | ● | ● | ● | | ● | ● | | ● | ● | ● | ● | ● |
| | | SEZ-KD35VAL | | ● | ● | ● | | ● | ● | | ● | ● | ● | ● | ● |
| | | SEZ-KD50VAQ | | | | | | ● | ● | | ● | ● | ● | ● | ● |
| | | SEZ-KD50VAL | | | | | | ● | ● | | ● | ● | ● | ● | ● |
| | | SEZ-KD60VAQ | | | | | | | ● | | ● | ● | ● | ● | ● |
| | | SEZ-KD60VAL | | | | | | | ● | | ● | ● | ● | ● | ● |
| | | SEZ-KD71VAQ | | | | | | | | | | ● | ● | ● | ● |
| | | SEZ-KD71VAL | | | | | | | | | | ● | ● | ● | ● |
| P series | 4-way Cassette | PLA-RP50BA | | | | | | ● | ● | | ● | ● | ●*7 | ● | ● |
| | | PLA-RP60BA | | | | | | | ● | | ● | ● | ●*7 | ● | ● |
| | | PLA-RP71BA | | | | | | | | | | ● | ●*7 | ● | ● |
| | Ceiling-Suspended | PCA-RP50KAQ | | | | | | ● | ● | | ● | ● | ●*7 | ● | ● |
| | | PCA-RP60KAQ | | | | | | | ● | | ● | ● | ●*7 | ● | ● |
| | | PCA-RP71KAQ | | | | | | | | | | ● | ●*7 | ● | ● |
| | Ceiling-Concealed | PEAD-RP50JAQ | | | | | | ●*1 | ●*1 | | ●*1 | ●*1 | ●*1*7 | ●*1 | ●*1 |
| | | PEAD-RP50JALQ | | | | | | ●*1 | ●*1 | | ●*1 | ●*1 | ●*1*7 | ●*1 | ●*1 |
| | | PEAD-RP60JAQ | | | | | | | | | | ●*1 | ●*1*7 | ●*1 | ●*1 |
| | | PEAD-RP60JALQ | | | | | | | | | | ●*1 | ●*1*7 | ●*1 | ●*1 |
| | | PEAD-RP71JAQ | | | | | | | | | | ●*1 | ●*1*7 | ●*1 | ●*1 |
| | | PEAD-RP71JALQ | | | | | | | | | | ●*1 | ●*1*7 | ●*1 | ●*1 |

*1 Maximum total current of indoor units: 3A or less.
*2 The combination is still under evaluation.
*3 SEZ-KD25 cannot be connected with MXZ-2D(E)/3E/4E/5E when total capacity of connected indoor units is equivalent to outdoor capacity (capacity ratio is 1).
*4 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.
*5 When connecting the MFZ-KJ Series indoor unit, additional refrigerant is required. For details, please refer to page 92.
*6 Regarding MXZ-2D33, the second unit should be a different type in the case of selecting one MFZ-KJ.
*7 P series cannot be connected with MXZ-4E83VAHZ when ampere limit adjustment function is operated.

# Conditions for specifications

Temperature conditions are based on JIS B8616.

| | | |
|---|---|---|
| Cooling | Indoor | 27°C DB, 19°C WB |
| | Outdoor | 35°C DB, 24°C WB |
| Heating | Indoor | 20°C DB |
| | Outdoor | 7°C DB, 6°C WB |

Refrigerant piping length ; 5m
The figures for total input are based on the following voltages.

| Series | Indoor unit | Outdoor unit |
|---|---|---|
| M Series<br>S Series<br>P Series (except for PEA)<br>MXZ Series<br>POWERFUL HEATING Series | – | VE,VA,VHA,VKA:230V/Single phase/50Hz<br>YA,YHA,YKA:400V/Three phase/50Hz |
| PEA Series | 400V/Three phase/50Hz | 400V/Three phase/50Hz |

Sound pressure level
• The sound pressure measurement is conducted in an anechoic chamber.
• The actual sound level depends on the distance from the unit and the acoustic environment.

# How to read a model name

## 1) M & S Series

| | |
|---|---|
| M | M : M Series S : S Series |
| S | "S"= Wall-mounted , "F"= Compact floor-standing , "E"= Compact ceiling-concealed ,<br>"L"= 4- or 1-way cassette , "U"= Outdoor unit |
| Z | "Z"= Inverter heat pump , "H"= Fixed-speed heat pump , "blank"= Cooling only |
| – | |
| F | Series |
| H | Generation |
| 25 | Rated cooling capacity (kW base) |
| V | 230V / Single phase / 50Hz |
| E | "A"= R410A with new A control , "B"= R410A with conventional control ,<br>"E"= R410A with new A control & ErP correspondance |
| HZ | "HZ"= Hyper Heating model , "H"= Anti-freeze heater equipped model ,<br>"S"= Silver indoor unit , "W"= White indoor unit , "B"= Black indoor unit |

## 2) P Series

| | |
|---|---|
| P | P Series |
| U | "K"= Wall-mounted , "S"= Floor-standing , "L"= 4-way cassette , "E"= Ceiling-concealed ,<br>"C"= Ceiling-suspended , "U"= Outdoor unit |
| H | "H"= For heating and cooling , "blank"= Cooling only |
| Z | "Z"= Inverter , "blank"= Fixed-speed |
| – | |
| ZRP/RP/P<br>SHW | "ZRP"/"RP"= R410A & cleaning-free pipe reuse , "P"=R410A<br>"SH"= Powerful heating ZUBADAN , "W"= can be used as air to water application |
| 71 | Rated cooling capacity (kW base) |
| V | "V"= 230V / Single phase / 50Hz , "Y"= 400V / Three phase / 50Hz |
| H | Generation |
| A | "A"= A control |

## 3) MXZ Series

| | |
|---|---|
| M | M Series |
| X | Multi-system outdoor unit (heat pump) |
| Z | Inverter heat pump |
| – | |
| 4 | Maximum number of connectable indoor units |
| D/E/HJ | Generation / Type |
| 72 | Rated cooling capacity (kW base) |
| V | "V"= 230V / Single phase / 50Hz |
| A | "A"= R410A with new A control |
| HZ | "HZ"= Hyper Heating model , "H"= Anti-freeze heater equipped model |