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

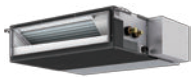

MFZ-KT


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.)

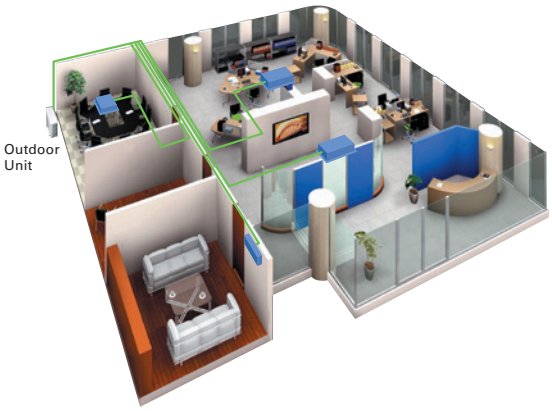
Check Indoor Unit Capacity Combination

Refer to the "Indoor Unit Compatibility 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


MSZ-LN


MSZ-AY


MLZ-KP


SLZ


MXZ-4F72VF4

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

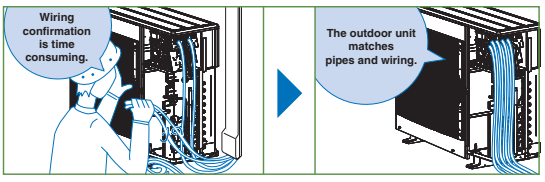
The MXZ Series for R32 offers a ten-system line-up to choose from, ranging between 3.3 and 12.0kW. All of them are compatible with specific M, S and P series indoor units. A single outdoor unit can handle a wide range of building layouts.

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

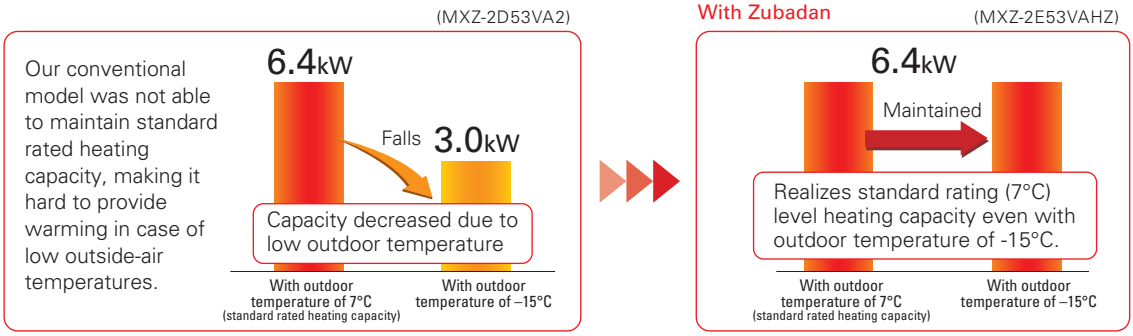
*4 This GWP value is based on Regulation(EU) No 517/2014 from IPCC 4th edition.

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 Outdoor Temperature Drops to –15°c.

Maintains high capacity output even when outdoor temperature is low.



Can Operate at Outdoor 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.

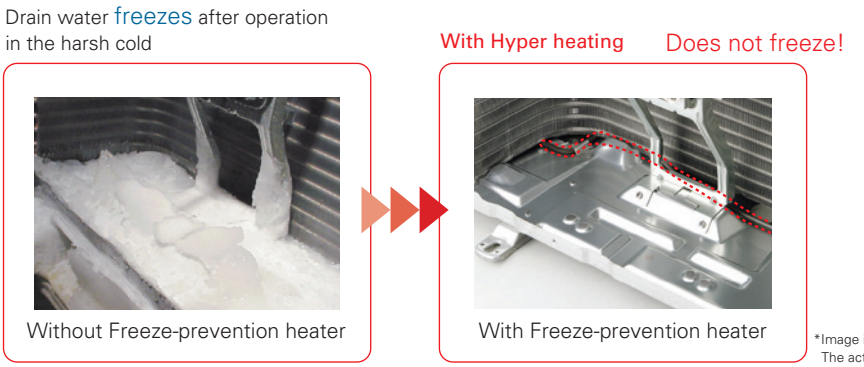
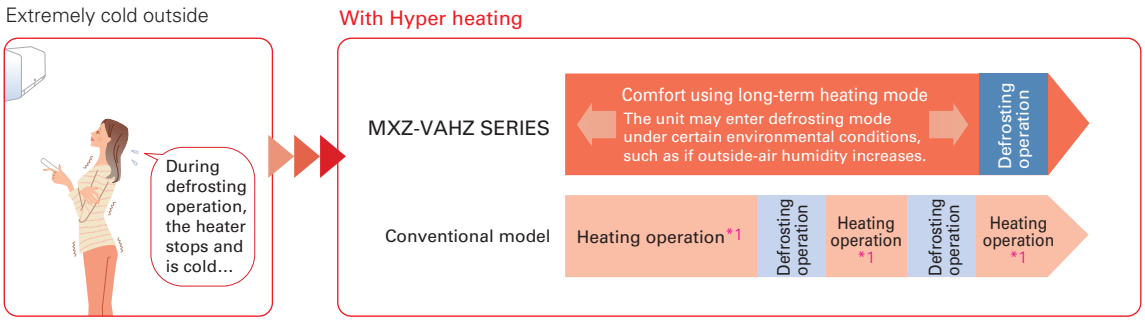


*Image is for illustration purposes.
The actual performance depends on outdoor temperature.

Continuous Heating for Long Periods

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

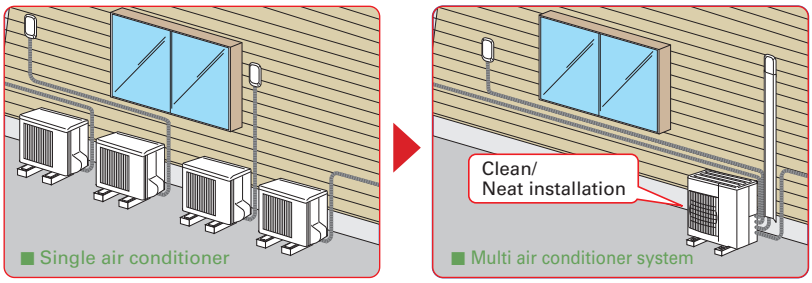


*1: Conventional model performs continuous heating approximately 30min up to a maximum of 90min.

One Outdoor Unit Supports Multiple Indoor Units.

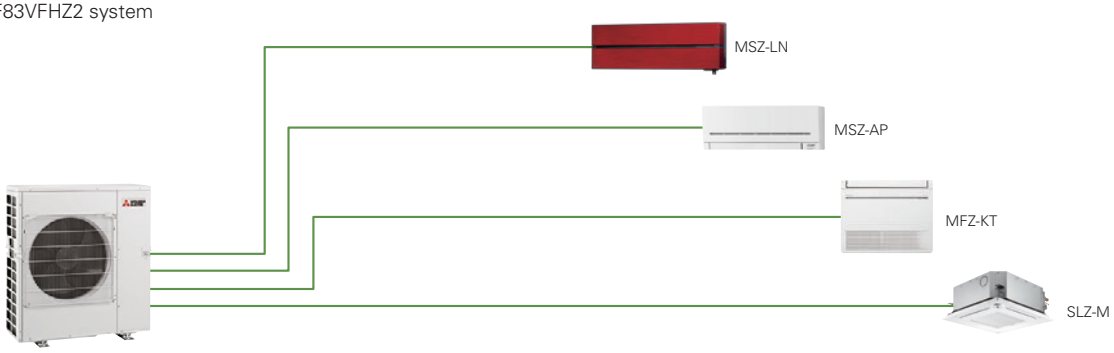
With MXZ-VFHZ, one outdoor unit can cool and heat up to six rooms. They can be installed neatly in sites with limited space such as condominium balconies.

*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-AY

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

MXZ-2F53VFHZ2

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 120.
*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 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 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

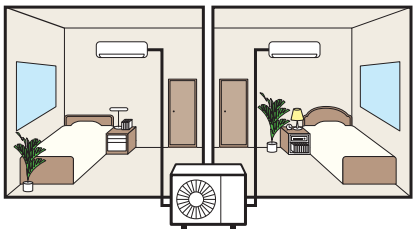
Stylish Design with Flat Panel Front

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

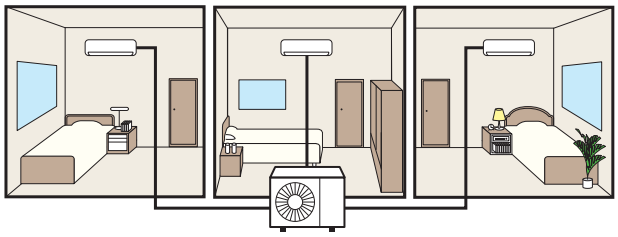
Easy to Create Various Combinations

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

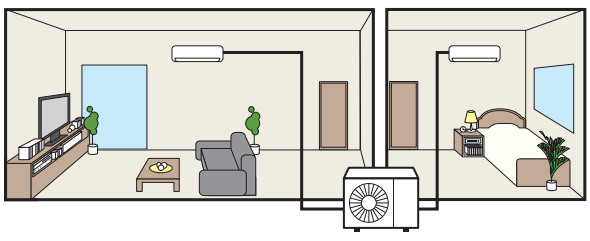
Two bedrooms



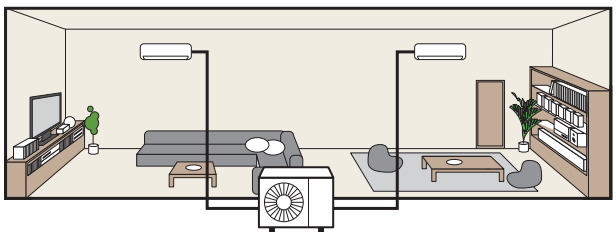
Three bedrooms



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	m^3/min	28.4	32.7	31.0
			Heating	m^3/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...

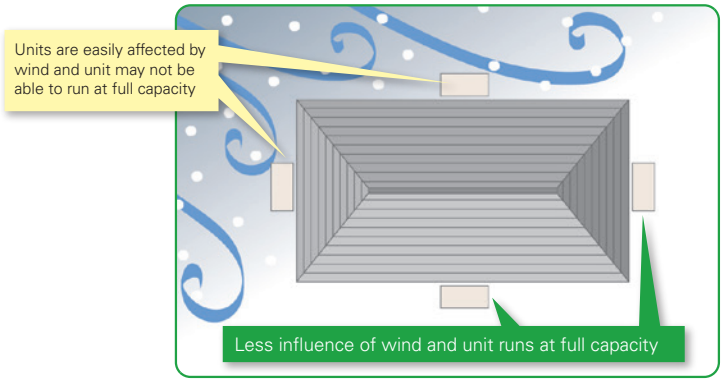
3 Important Points to Remember When Installing the Outdoor Unit

✻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

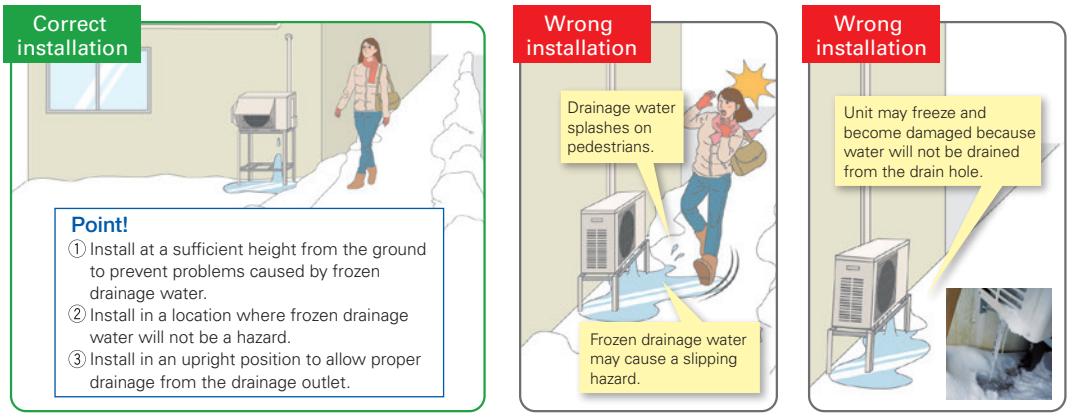
Be aware of the prevailing wind direction in winter and install the outdoor unit where it is as sheltered as possible.



2 Measures for Drainage of Water

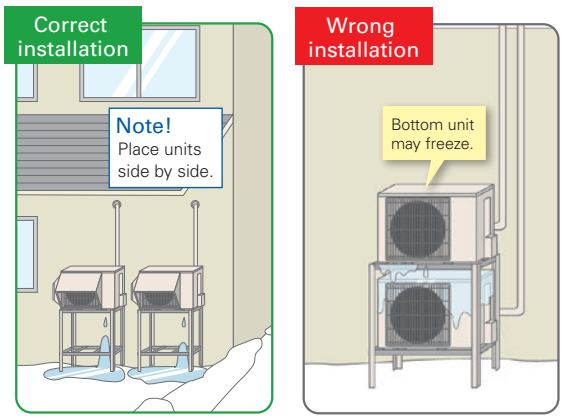
Case 1: Unit is installed close to passage (walkway)

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.



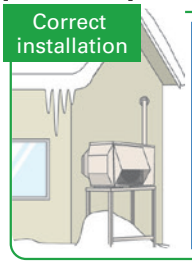
3 Measures for Snow

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

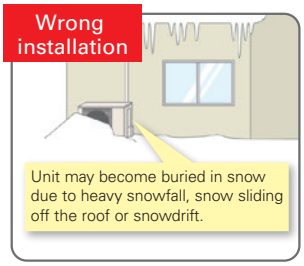


Point!

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.

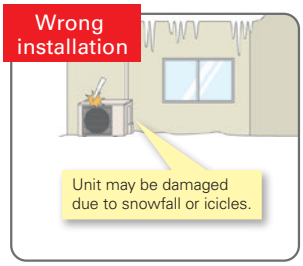
*1 Install at a height above the highest snowfall depth.
*2 Even for correct installations, dripping drainage water may form an icicle which needs to be cleared away regularly to prevent a blocked drainage outlet.

Wrong installation



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

Wrong installation

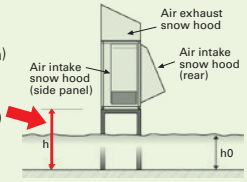


Unit may be damaged due to snowfall or icicles.

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

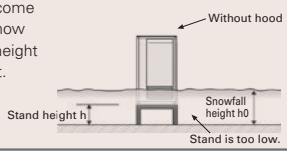
Correct installation

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



Wrong installation

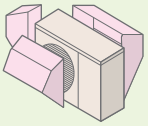
Unit may become covered in snow if the stand height is insufficient.



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] 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. 2. Install so as to prevent damage to the unit due to frozen drainage water (icicles). <Correct> 
Snow protection hood	Needed *When the installation position is subject to snowfall.	—	1. Prevents heat exchanger from being covered in snow. 2. Prevents snow accumulating inside the air duct.
Base heater	—	Needed	[RAC / PAC / MXZ] 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] Separately sold parts are available for some models. 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-RZ25VU															
		MSZ-RZ35VU															
		MSZ-RZ50VU															
		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-KP25VG	●	●	●	●	●	●	●	●	●	●	●	●			
		MLZ-KP35VG		●	●	●	●	●	●	●	●	●	●	●			
		MLZ-KP50VG					●	●	●	●	●	●	●	●			
		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

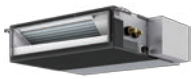
Floor-standing


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

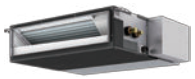

MLZ-KP


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.

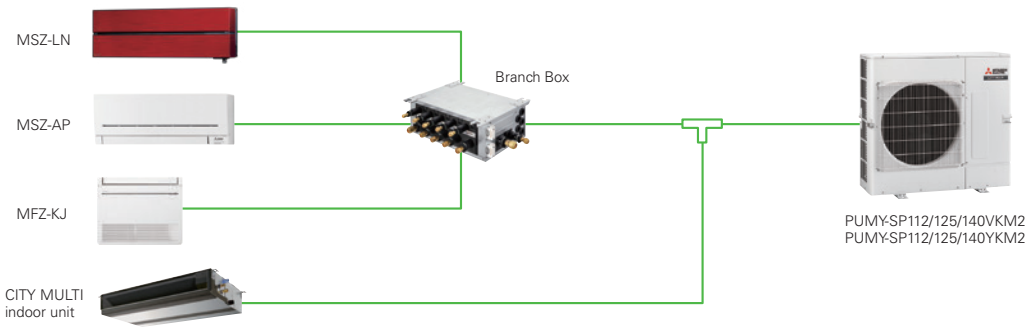
PUMY-SP SERIES

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)

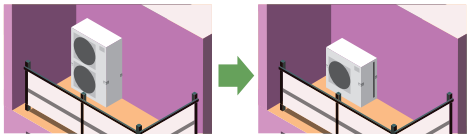
Height 1,338mm
Weight 125kg

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

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

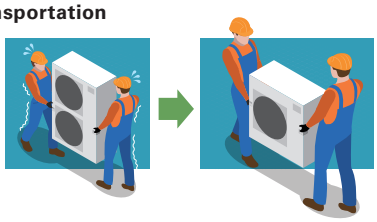
Unobstructive, compact, and easy to hide from view

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.



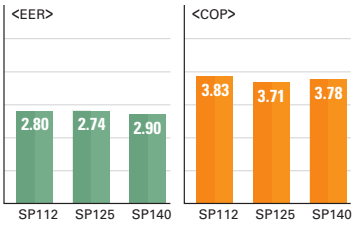
Easy installation and transportation

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



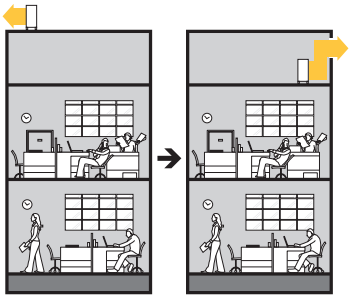
Industry's Top Energy Efficiency

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.

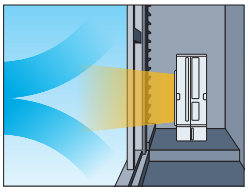


An External Static Pressure of 30Pa

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.

Super Silent Mode*

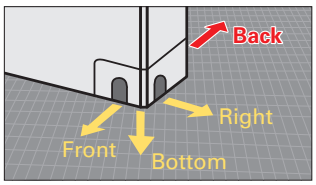
Noise level can be reduced up to 10dB(A). This allows you to operate the unit even in the night in a residential zone.

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

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

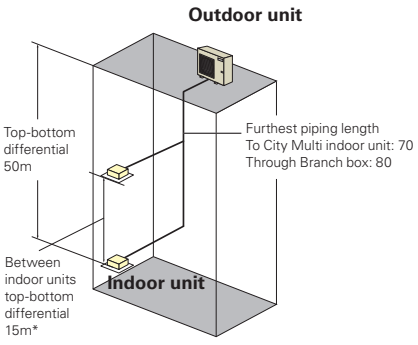
Type				Branch Box	
Model Name				PAC-MK54BC	PAC-MK34BC
Connectable Number of Indoor Units				Maximum 5	Maximum 3
Power Supply (from outdoor unit)				~ / N, 220 / 230 / 240 V, 50 Hz, ~ / N, 220 / 230 V, 60 Hz	
Input			kW	0.003	
Running Current			A	0.05 (Max. 6)	
Dimensions		H*W*D	mm	170 × 450 × 280	
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



*In case of branch box connection: 12m

[SP112–140V/YKM2(-BS)]

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

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

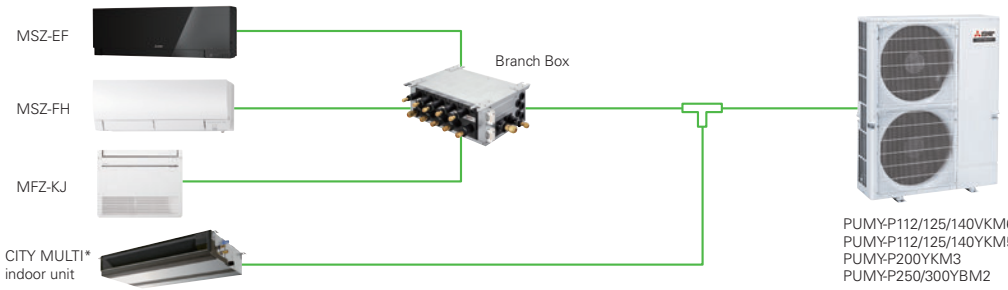
PUMY-P SERIES

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

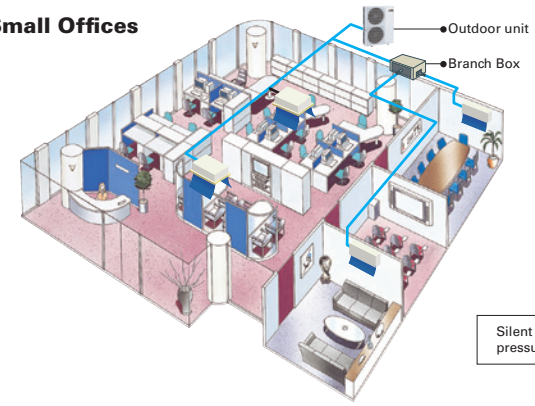


*In case of mix sytstem (CITY MULTI indoor unit with Branch box), PKFY and PFFY series are not connectable. (P112/125/140/250/300)

The Two-pipe Zoned System Designed for Heat Pump Operation

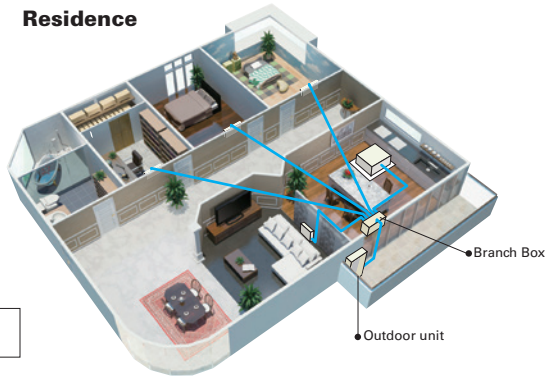
PUMY series make use of a two-pipe refrigerant system, which allows for system changeover from cooling to heating, ensuring that a constant indoor climate is maintained in all zones. The compact outdoor unit utilizes R410A refrigerant and an INVERTER-driven compressor to use energy effectively.
With 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	

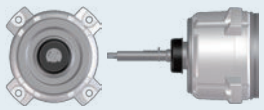
*1 Include system with connection kit *2 In case of including PKFY or PFFY, height between units is 30m.

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

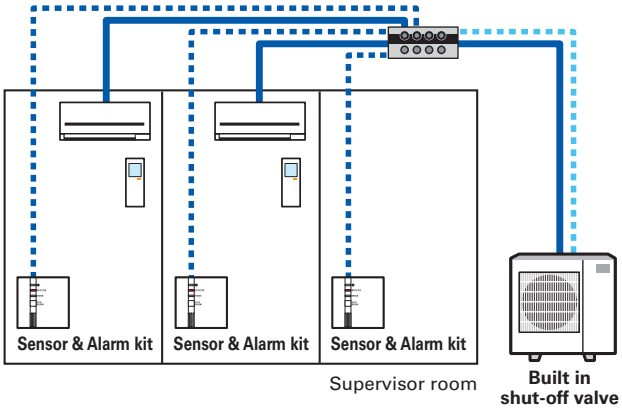
Air conditioning system supports replacement work by simplifying the installation process. Ideal for supporting renewal needs at small offices and stores, home offices, etc.

R32

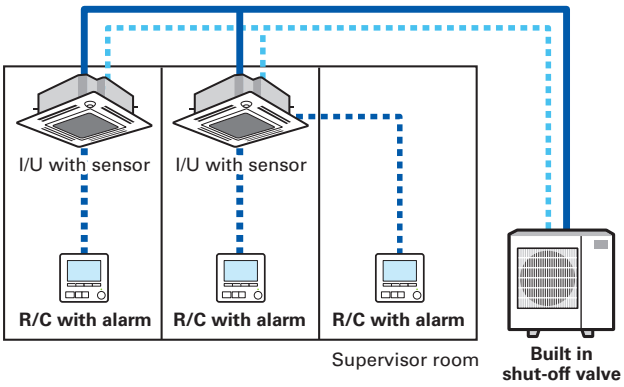
PUMY-SM112/125/140VKM
PUMY-SM112/125/140YKM

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 • Sensor and alarm in the device • Have 3 types of LED (operation, detection, error) • Detection of refrigerant leakage, a kit alerts and LED flashes in red • 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 • Alarm in the device • Have a display • In case of refrigerant leakage, R/C alerts and error code and address of indoor unit is shown • 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

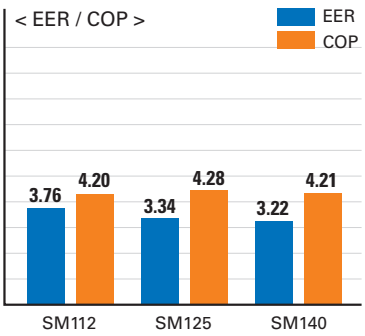
Piping/ Wiring
- Piping connection from both side and wiring connection from one side.
- If necessary, you need to flip over only electrical box to connect from the other side.

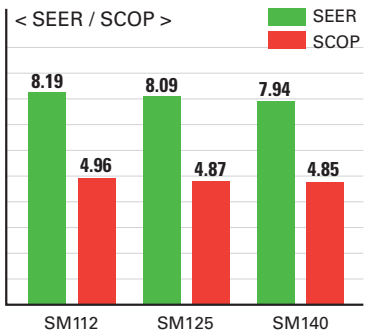
Instability
- Possible to make piping connection from both side.
- Flipping over only electrical box is not difficult for installer.
- ø9.52/ø15.88 can be connected to a large indoor unit placed in a living room or other large room.

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.

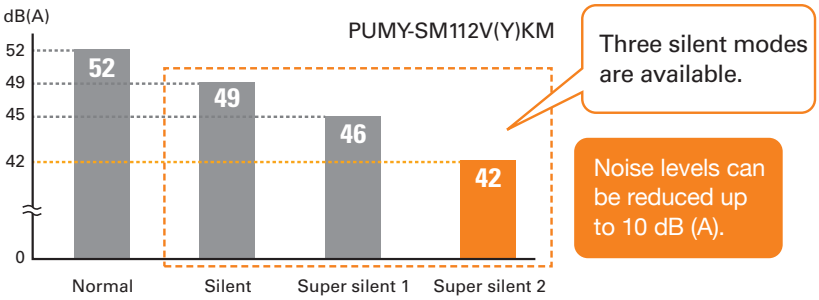




Super Silent Mode*

- 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•VG					●	●		●			
		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•VG					●	●		●			
		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•VG					●	●		●			
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 Demand Control

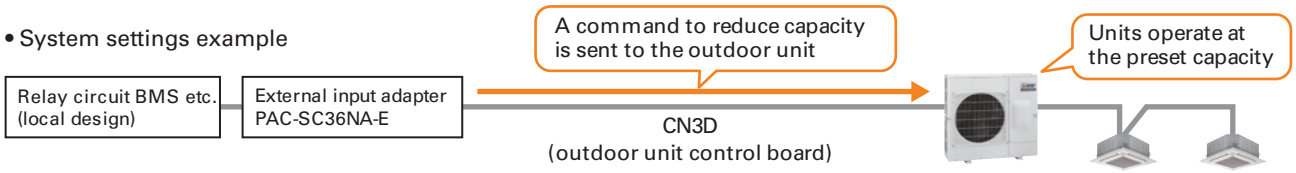
This function reduces the capacity of the outdoor/heat source unit by way of the external input to the outdoor unit.
The capacity of the outdoor unit can be reduced in steps, with patterns ranging from 2 to 12 control steps depending on the system. The number of steps that can be set and the corresponding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

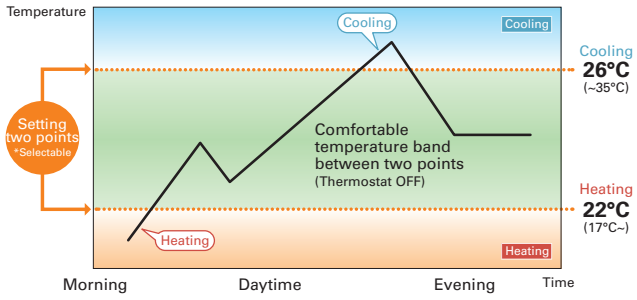
Normally, the desired room temperature is set to the same value for cooling and heating. However, the dual set point function allows different temperatures to be set for cooling and heating. When operation switches from cooling to heating or vice versa, the preset temperature changes accordingly.

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 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.)