

# POWERFUL HEATING

SERIES



# SELECTION

Choose the series that best matches the building layout.

<b>MSZ-LN VGHZ, MSZ-FH/MFZ-KJ VEHZ SERIES</b>	
The line-up includes outdoor models 25–50	
<p><b>Outdoor Unit</b></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p><b>R32</b> <b>R410A</b></p> <p>MUZ-LN25/35VGHZ2 MUZ-FH25/35VEHZ MUFZ-KJ25/35VEHZ</p> </div> <div style="text-align: center;">  <p><b>R32</b> <b>R410A</b></p> <p>MUZ-LN50VGHZ2 MUZ-FH50VEHZ MUFZ-KJ50VEHZ</p> </div> </div>	<p><b>Indoor Unit</b></p> <p><b>Wall-mounted</b></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p><b>R32</b> <b>R410A</b></p> <p>MSZ-LN25/35/50VG2 (W)(V)(R)(B)</p> </div> <div style="text-align: center;">  <p><b>R410A</b></p> <p>MSZ-FH25/35/50VE2</p> </div> </div> <p><b>Floor-standing</b></p> <div style="text-align: center;">  <p><b>R410A</b></p> <p>MFZ-KJ25/35/50VE2</p> </div>

<b>ZUBADAN SERIES</b>	
The line-up includes outdoor unit models 112-140 class and three types of indoor units.	
<p><b>Outdoor Unit</b></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p><b>R410A</b></p> <p>PUHZ-SHW112VHA PUHZ-SHW112/140YHA</p> </div> </div>	<p><b>Indoor Unit</b></p> <p><b>4-way cassette</b></p> <div style="text-align: center;">  <p>PLA Series</p> </div> <p><b>Wall-mounted</b></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p><b>R32</b> <b>R410A</b></p> <p>PEAD Series</p> </div> <div style="text-align: center;">  <p><b>R32</b> <b>R410A</b></p> <p>PKA Series</p> </div> </div>

<b>MXZ-VAHZ SERIES</b>	
<p><b>Outdoor Unit</b></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p><b>R410A</b></p> <p>MXZ-2E53VAHZ</p> </div> <div style="text-align: center;">  <p><b>R410A</b></p> <p>MXZ-4E83VAHZ</p> </div> </div>	

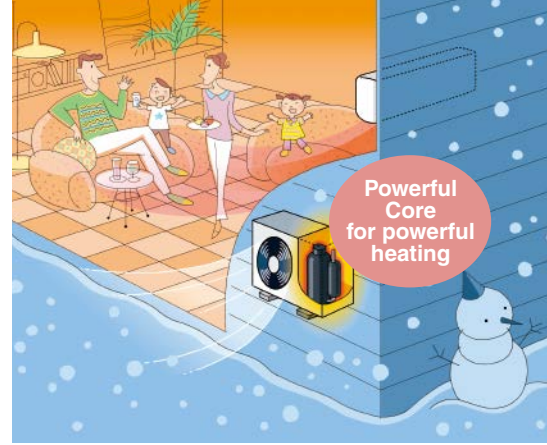
# LN VGHZ SERIES

# FH VEHZ SERIES

**R32** Single / Multi

**R410A** Multi

**R410A** Single / Multi



Unlike conventional air conditioning systems, the LN Series and FH Series don't lose heating capacity when it's cold outside. Original technologies ensure excellent heating performance under extremely low outdoor temperatures and an impressive guaranteed operating range.



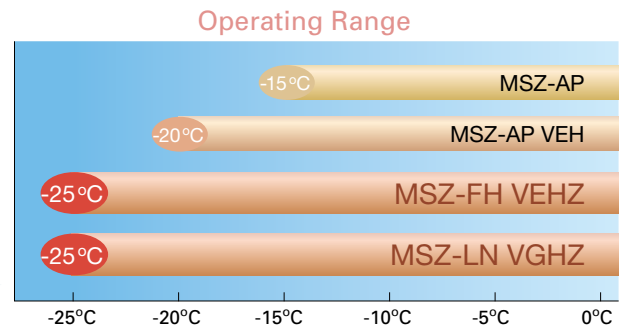
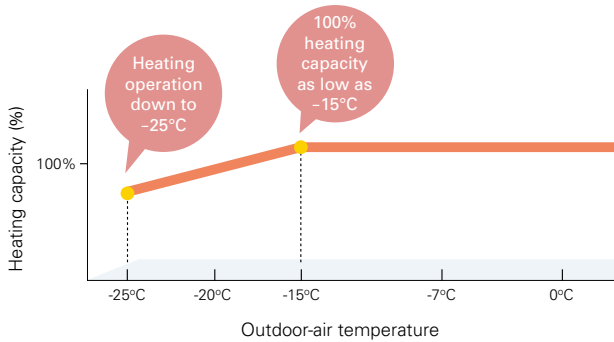
MSZ-LN25/35/50VG2(W)(V)(R)(B)



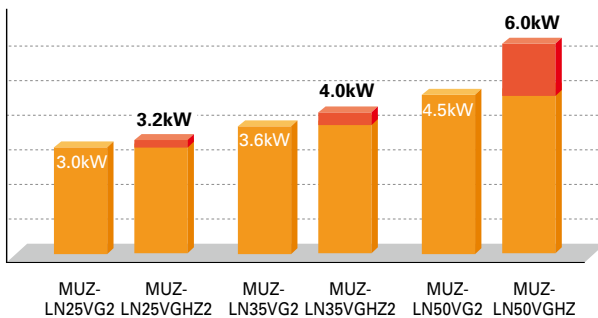
MSZ-FH25/35/50VE2

## Unparalleled Heating Performance

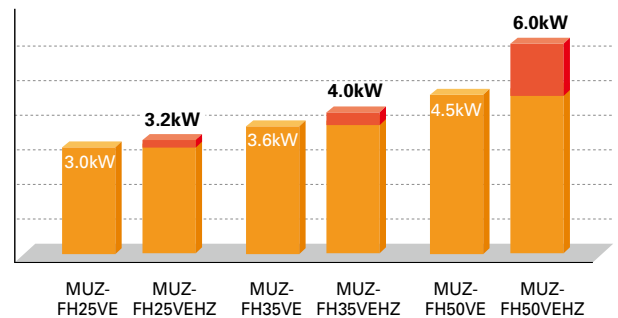
LN Series and FH Series outdoor units are equipped with a high-output compressor that provides enhanced heating performance under low outdoor temperatures. The heating operation range is extended down to -25°C.



## Declared Capacity (at reference design temperature)

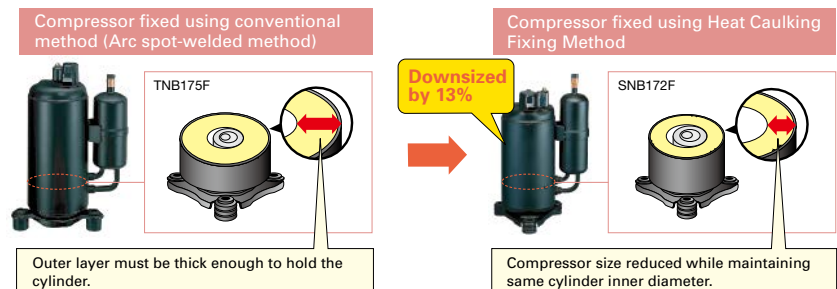


## Declared Capacity (at reference design temperature)



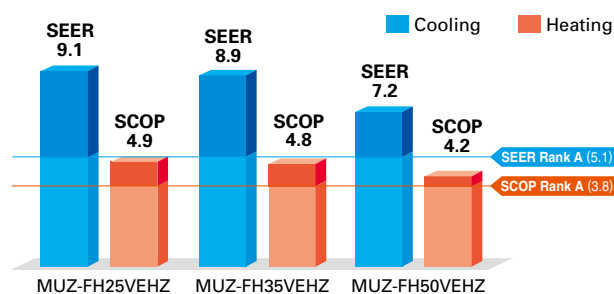
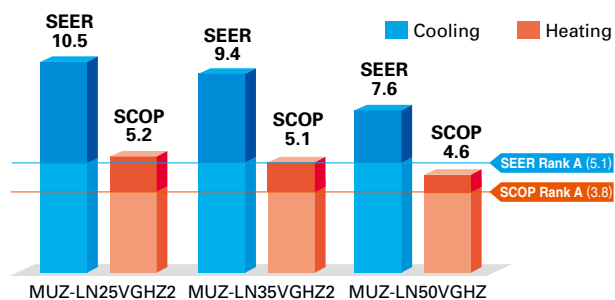
## Compact, Powerful Compressor

A special manufacturing technology, "Heat Caulking Fixing Method," has been introduced to reduce compressor size while maintaining a high compressor output. This technology enables the installation of a powerful compressor in compact MUZ outdoor units. As a result, excellent heating performance is achieved when operating in cold outdoor environments.



## High Energy Efficiency – Energy Rank of A<sup>+</sup> or higher for All Models

With indoor units that combine functionality, design and capacity and outdoor units equipped with a high-efficiency compressor, the MUZ-LN VGHZ and MUZ-FH VEHZ simultaneously achieves high heating capacity and energy-saving performance.



## Freeze-prevention Heater Equipped as Standard

The Freeze-prevention heater restricts lowered capacity and operation shutdowns caused by the drain water freezing. This supports stable operation in low-temperature environments.

Operation Guaranteed at Outside Temperature of -25°C



Without Freeze-prevention heater



With Freeze-prevention heater

# MSZ-LN VGHZ SERIES



## Indoor Unit / Remote Controller



<Pearl White>



MSZ-LN25/35/50VG2V

<Ruby Red>



MSZ-LN25/35/50VG2R

<Natural White>



MSZ-LN25/35/50VG2W

<Onyx Black>



MSZ-LN25/35/50VG2B

## Outdoor Unit



MUZ-LN25/35VGHZ2



MUZ-LN50VGHZ



Type				Inverter Heat Pump		
Indoor Unit		MSZ-LN25VG(W)(V)(R)(B)		MSZ-LN35VG(W)(V)(R)(B)		
Outdoor Unit		MUZ-LN25VGHZ		MUZ-LN35VGHZ		
Refrigerant		R32 <sup>(*)1</sup>				
Power Supply		Source		Outdoor Power supply		
		Outdoor (V/Phase/Hz)		230/Single/50		
Cooling	Design Load	kW	2.5	3.5	5.0	
	Annual Electricity Consumption <sup>(*)2</sup>	kWh/a	83	130	230	
	SEER <sup>(*)4</sup>		10.5	9.4	7.6	
	Capacity	Energy Efficiency Class		A+++	A+++	A++
		Rated	kW	2.5	3.5	5.0
	Total Input	Min - Max	kW	0.8 - 3.5	0.8 - 4.0	1.4 - 5.8
		Rated	kW	0.485	0.820	1.380
Heating (Average Season) <sup>(*)5</sup>	Design Load	kW	3.2 (-10°C)	4.0 (-10°C)	6.0 (-10°C)	
	Declared Capacity	at reference design temperature	kW	3.2 (-10°C)	4.0 (-10°C)	6.0 (-10°C)
		at bivalent temperature	kW	3.2 (-10°C)	4.0 (-10°C)	6.0 (-10°C)
		at operation limit temperature	kW	2.3 (-25°C)	3.1 (-25°C)	4.7 (-25°C)
		Back Up Heating Capacity	kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)
	Annual Electricity Consumption <sup>(*)2</sup>	kWh/a	861	1098	1826	
	SCOP <sup>(*)4</sup>		5.2	5.1	4.6	
	Capacity	Energy Efficiency Class		A+++	A+++	A++
		Rated	kW	3.2	4.0	6.0
	Total Input	Min - Max	kW	0.8 - 6.3	0.9 - 6.6	1.8 - 8.7
Rated		kW	0.600	0.820	1.480	
Operating Current (max)		A	9.9	10.5	15.2	
Indoor Unit	Input	Rated	kW	0.027	0.027	
	Operating Current (max)		A	0.3	0.4	
	Dimensions		H x W x D	mm	307 - 890 - 233	307 - 890 - 233
	Weight		kg	15.5	15.5	
	Air Volume (SLo-Lo-Mid-Hi-SHi <sup>(*)3</sup> (Dry/Wet))	Cooling	m <sup>3</sup> /min	4.3 - 5.8 - 7.1 - 8.8 - 11.9	4.3 - 5.8 - 7.1 - 8.8 - 12.8	5.7 - 7.6 - 8.9 - 10.6 - 13.9
		Heating	m <sup>3</sup> /min	4.0 - 5.7 - 7.1 - 8.5 - 14.4	4.3 - 5.7 - 7.1 - 8.5 - 13.7	5.4 - 6.4 - 8.5 - 10.7 - 15.7
	Sound Level (SPL) (SLo-Lo-Mid-Hi-SHi <sup>(*)3</sup> )	Cooling	dB(A)	19 - 23 - 29 - 36 - 42	19 - 24 - 29 - 36 - 43	27 - 31 - 35 - 39 - 46
		Heating	dB(A)	19 - 24 - 29 - 36 - 45	19 - 24 - 29 - 36 - 45	25 - 29 - 34 - 39 - 47
	Sound Level (PWL)		dB(A)	58	58	60
	Dimensions		H x W x D	mm	550 - 800 - 285	550 - 800 - 285
Weight		kg	35	36		
Air Volume	Cooling	m <sup>3</sup> /min	31.4	33.8	48.8	
	Heating	m <sup>3</sup> /min	27.4	27.4	51.3	
Sound Level (SPL)	Cooling	dB(A)	46	49	51	
	Heating	dB(A)	49	50	54	
Sound Level (PWL)		dB(A)	60	61	64	
Operating Current (max)		A	9.6	10.2	14.8	
Breaker Size		A	10	12	16	
Ext. Piping	Diameter	Liquid / Gas	mm	6.35/9.52	6.35/9.52	
	Max. Length	Out-In	m	20	30	
	Max. Height	Out-In	m	12	15	
Guaranteed Operating Range (Outdoor)		Cooling	°C	-10 ~ +46	-10 ~ +46	
		Heating	°C	-25 ~ +24	-25 ~ +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 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO<sub>2</sub> 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.

(\*)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 SHi: Super High

(\*)4 SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".

(\*)5 Please see page 51-52 for heating (warmer season/colder season) specifications.

# MSZ-FH VEHZ SERIES



## Indoor Unit



MSZ-FH25/35/50VE2



## Outdoor Unit



MUZ-FH25/35VEHZ

MUZ-FH50VEHZ

## Remote Controller



Type		Inverter Heat Pump				
Indoor Unit		MSZ-FH25VE2	MSZ-FH35VE2	MSZ-FH50VE2		
Outdoor Unit		MUZ-FH25VEHZ	MUZ-FH35VEHZ	MUZ-FH50VEHZ		
Refrigerant		R410A <sup>(*)1</sup>				
Power Supply		Outdoor power supply				
Source		230 / Single / 50				
Outdoor (V/Phase/Hz)						
Cooling	Design Load	kW	2.5	3.5	5.0	
	Annual Electricity Consumption <sup>(*)2</sup>	kWh/a	96	138	244	
	SEER <sup>(*)4</sup>		9.1	8.9	7.2	
	Capacity	Energy Efficiency Class		A+++	A+++	A++
		Rated	kW	2.5	3.5	5.0
	Total Input	Rated	kW	0.8 - 3.5	0.8 - 4.0	1.9 - 6.0
Heating (Average Season) <sup>(*)5</sup>	Design Load	kW	3.2	4.0	6.0	
	Declared Capacity	at reference design temperature	kW	3.2	4.0	6.0
		at bivalent temperature	kW	3.2	4.0	6.0
		at operation limit temperature	kW	1.7	2.6	3.8
	Back Up Heating Capacity	kW	0.0	0.0	0.0	
	Annual Electricity Consumption <sup>(*)2</sup>	kWh/a	924	1173	2006	
	SCOP <sup>(*)4</sup>		4.9	4.8	4.2	
	Capacity	Energy Efficiency Class		A++	A++	A+
		Rated	kW	3.2	4.0	6.0
	Total Input	Rated	kW	1.0 - 6.3	1.0 - 6.6	1.7 - 8.7
Operating Current (max)		A	9.6	10.5	14.0	
Indoor Unit	Input	Rated	kW	0.029	0.029	0.031
	Operating Current (max)		A	0.4	0.4	0.4
	Dimensions	H x W x D	mm	305 (+17) - 925 - 234		
	Weight		kg	13.5	13.5	13.5
	Air Volume (SLo-Lo-Mid-Hi-SHi <sup>(*)3</sup> (Dry/Wet))	Cooling	m <sup>3</sup> /min	3.9 - 4.7 - 6.3 - 8.6 - 11.6 (10.5)		
		Heating	m <sup>3</sup> /min	4.0 - 4.7 - 6.4 - 9.2 - 13.2		
	Sound Level (SPL) (SLo-Lo-Mid-Hi-SHi <sup>(*)3</sup> )	Cooling	dB(A)	20 - 23 - 29 - 36 - 42		
		Heating	dB(A)	20 - 24 - 29 - 36 - 44		
	Sound Level (PWL)		dB(A)	58	58	60
	Outdoor Unit	Dimensions	H x W x D	mm	550 - 800 - 285	880 - 840 - 330
Weight			kg	37	55	
Air Volume		Cooling	m <sup>3</sup> /min	31.3	33.6	48.8
		Heating	m <sup>3</sup> /min	31.3	33.6	51.3
Sound Level (SPL)		Cooling	dB(A)	46	49	51
		Heating	dB(A)	49	50	54
Sound Level (PWL)		Cooling	dB(A)	60	61	64
Operating Current (max)			A	9.2	10.1	13.6
Breaker Size		A	10	12	16	
Ext. Piping	Diameter	Liquid / Gas	mm	6.35 / 9.52	6.35 / 12.7	
	Max. Length	Out-In	m	20	30	
	Max. Height	Out-In	m	12	15	
Guaranteed Operating Range (Outdoor)	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	
	Heating	°C	-25 ~ +24	-25 ~ +24	-25 ~ +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 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<sub>2</sub> 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 R410A is 2088 in the IPCC 4th Assessment Report.

(\*)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 SHi: Super High

(\*)4 SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".

(\*)5 Please see page 51-52 for heating (warmer season) specifications.

# MFZ-KJ SERIES



## Indoor Unit

**R410A**  
Single / Multi



MFZ-KJ25/35/50VE2



## Outdoor Unit



MUFZ-KJ25/35VEHZ



MUFZ-KJ50VEHZ

## Remote Controller



Type		Inverter Heat Pump				
Indoor Unit		MFZ-KJ25VE2	MFZ-KJ35VE2	MFZ-KJ50VE2		
Outdoor Unit		MUFZ-KJ25VEHZ	MUFZ-KJ35VEHZ	MUFZ-KJ50VEHZ		
Refrigerant		R410A <sup>(*)1</sup>				
Power Supply		Outdoor power supply				
Source		230 / Single / 50				
Outdoor (V/Phase/Hz)						
Cooling	Design Load	kW	2.5	3.5	5.0	
	Annual Electricity Consumption <sup>(*)2</sup>	kWh/a	102	150	266	
	SEER <sup>(*)4</sup>	Energy Efficiency Class		8.5	8.1	6.5
				A+++	A++	A++
	Capacity	Rated	kW	2.5	3.5	5.0
		Min - Max	kW	0.5 - 3.4	0.5 - 3.7	1.6 - 5.7
	Total Input	Rated	kW	0.540	0.940	1.410
Heating (Average Season)	Design Load	kW	3.5	3.6	4.5	
	Declared Capacity	at reference design temperature	kW	3.5	3.6	4.5
		at bivalent temperature	kW	3.5	3.6	4.5
		at operation limit temperature	kW	1.6	2.3	3.3
	Back Up Heating Capacity	kW	0.0	0.0	0.0	
	Annual Electricity Consumption <sup>(*)2</sup>	kWh/a	1104	1158	1467	
	SCOP <sup>(*)4</sup>	Energy Efficiency Class		4.4	4.3	4.2
				A+	A+	A+
	Capacity	Rated	kW	3.4	4.3	6.0
		Min - Max	kW	1.2 - 5.1	1.2 - 5.8	2.2 - 8.4
Total Input	Rated	kW	0.770	1.100	1.610	
Operating Current (max)		A	4.42	3.91	3.73	
Indoor Unit	Input	Rated	kW	0.016	0.016	0.038
		Operating Current (max)	A	0.17	0.17	0.34
	Dimensions	H x W x D	mm	600 - 750 - 215		
	Weight		kg	15	15	15
	Air Volume (SLo-Lo-Mid-Hi-SHi <sup>(*)3</sup> (Dry/Wet))	Cooling	m <sup>3</sup> /min	3.9 - 4.9 - 5.9 - 7.1 - 8.2	3.9 - 4.9 - 5.9 - 7.1 - 8.2	5.6 - 6.7 - 8.0 - 9.3 - 10.6
		Heating	m <sup>3</sup> /min	3.9 - 5.1 - 6.2 - 7.7 - 9.7	3.9 - 5.1 - 6.2 - 7.7 - 9.7	6.0 - 7.4 - 9.4 - 11.6 - 14.0
	Sound Level (SPL) (SLo-Lo-Mid-Hi-SHi <sup>(*)3</sup> )	Cooling	dB(A)	20 - 25 - 30 - 35 - 39	20 - 25 - 30 - 35 - 39	27 - 31 - 35 - 39 - 44
		Heating	dB(A)	19 - 25 - 30 - 35 - 41	19 - 25 - 30 - 35 - 41	29 - 35 - 40 - 45 - 50
	Sound Level (PWL)		dB(A)	49	50	56
	Outdoor Unit	Dimensions	H x W x D	mm	550 - 800 - 285	880 - 840 - 330
Weight			kg	37	37	55
Air Volume		Cooling	m <sup>3</sup> /min	31.3	31.3	45.8
		Heating	m <sup>3</sup> /min	33.6	33.6	45.8
Sound Level (SPL)		Cooling	dB(A)	46	47	49
		Heating	dB(A)	51	51	51
Sound Level (PWL)		Cooling	dB(A)	59	60	63
Operating Current (max)			A	9.2	10	13.6
Breaker Size			A	10	12	16
Ext. Piping		Diameter	Liquid / Gas	mm	6.35 / 9.52	6.35 / 9.52
	Max. Length	Out-In	m	20	30	
	Max. Height	Out-In	m	12	15	
Guaranteed Operating Range (Outdoor)	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	
	Heating	°C	-25 ~ +24	-25 ~ +24	-25 ~ +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<sub>2</sub> 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 R410A is 2088 in the IPCC 4th Assessment Report.

(\*)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 SHi: Super High

(\*)4 SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".

# ZUBADAN SERIES

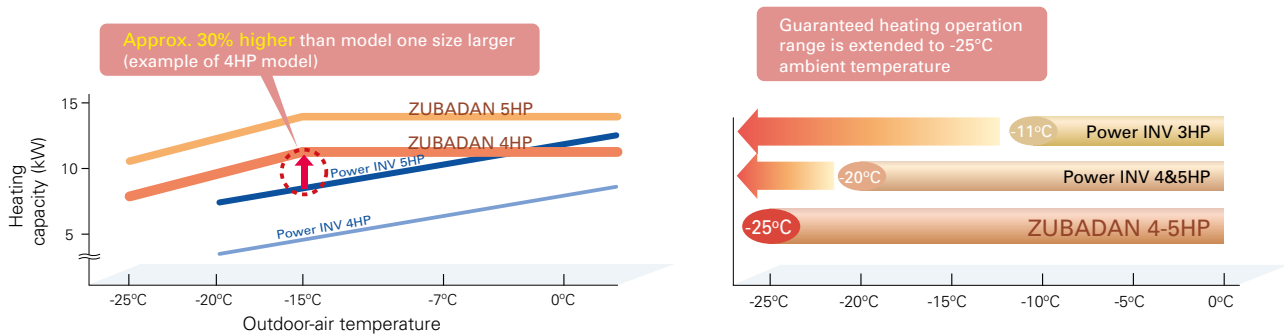
The ZUBADAN Series incorporates an original Flash Injection technology that improves the already high heating capacity of the system. This new member of the series line-up ensures comfortable heat pump-driven heating performance in cold regions.



\* Units in photo are Japanese models.  
European model specifications are different.

## Improved Heating Performance

Mitsubishi Electric's unique "Flash Injection" circuit achieves remarkably high heating performance. This technology has resulted in an excellent heating capacity rating in outdoor temperatures as low as  $-15^{\circ}\text{C}$ , and the guaranteed heating operation range of the heating mode has been extended to  $-25^{\circ}\text{C}$ . Accordingly, the heat-pump units of the ZUBADAN Series are perfect for warming homes in the coldest of regions.

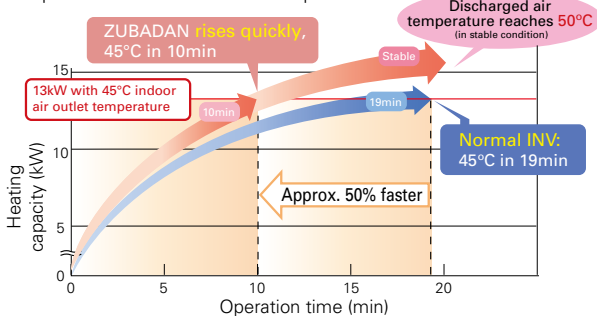


## Enhanced Comfort

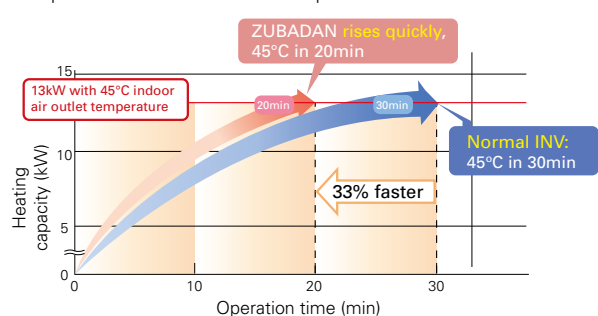
The Flash Injection circuit improves start-up and recover from the defrosting operation. A newly introduced defrost operation control also improves defrost frequency. These features enable the temperature to reach the set temperature more quickly, and contribute to maintaining it at the desired setting.

### Quick Start-up

■ Operation at  $+2^{\circ}\text{C}$  outdoor temperature



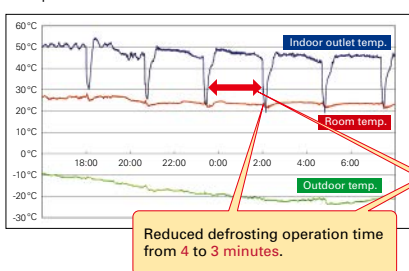
■ Operation at  $-20^{\circ}\text{C}$  outdoor temperature



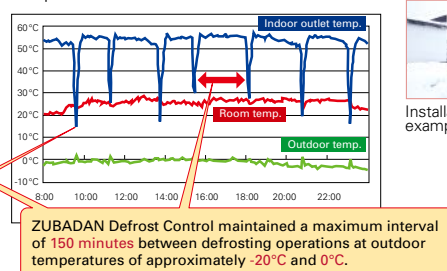
### ZUBADAN Defrost Control and Faster Recovery from Defrost Operation

Field Test Results: Office building in Asahikawa, Hokkaido, Japan

■ Operation data for 25 Jan. 2005



■ Operation data for 2 Dec. 2004



Installation example

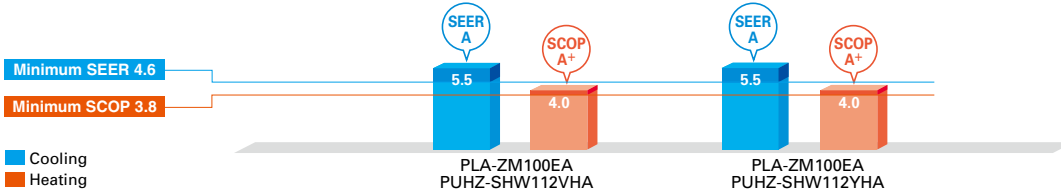




# ErP Lot 10 Compliant with High Energy-efficiency Achieving SEER/SCOP Rank A and A+



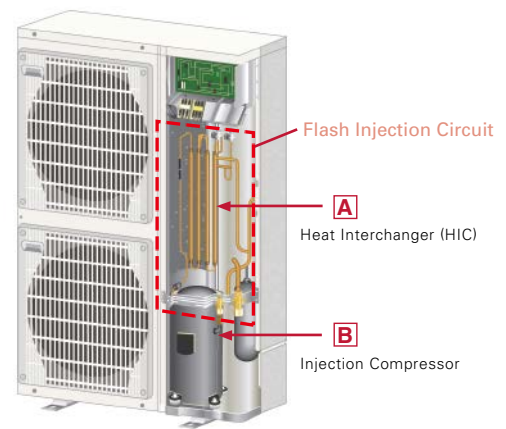
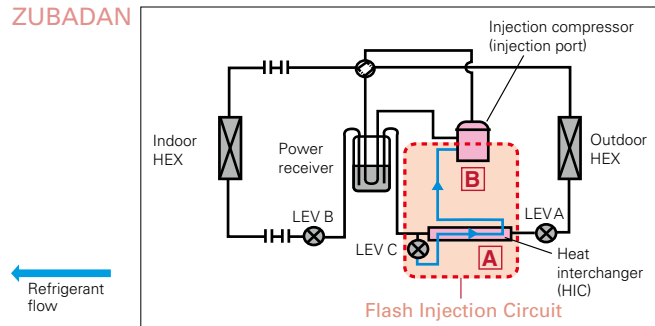
Powerful heating yet annually high energy efficiency in both cooling and heating, achieving rank A and A+.



## Mitsubishi Electric's Flash Injection Technology The Key to High Heating Performance at Low Outdoor Temperatures

### Flash Injection Circuit

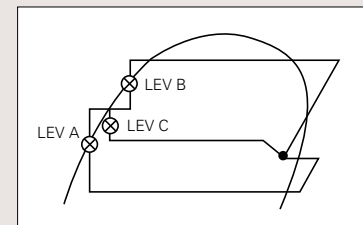
ZUBADAN



The ZUBADAN Series is equipped with Mitsubishi Electric's original Flash Injection Circuit, which is comprised of a bypass circuit and heat interchanger (HIC). The HIC transforms rerouted liquid refrigerant into a gas-liquid state to lower compression load. This process ensures excellent heating performance even when the outdoor temperature drops very low.

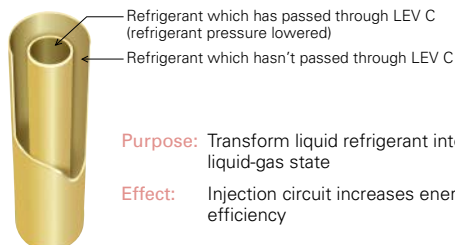
In traditional units, when the outdoor temperature is low, the volume of refrigerant circulating in the compressor decreases due to the drop in refrigerant pressure and the protection from overheating caused by high compression, thereby reducing heating capacity. The Flash Injection Circuit injects refrigerant to maintain the refrigerant circulation volume and compressor operation load, thereby maintaining heating capacity.

Mollier Chart Image Representing Flash Injection Circuit Operation



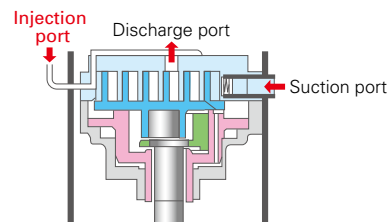
#### A Heat Interchanger (HIC)

HIC cross-sectional view



The compressor is subjected to a heavy load when compressing liquid refrigerant, and the result is lower operation efficiency. The addition of HIC supports refrigerant heat exchange at two different pressure levels. The heat-exchange process transforms the injected liquid refrigerant into a gas liquid state, thereby decreasing the load on the compressor during the compression process.

#### B Injection Compressor



**Purpose:** To increase the volume of refrigerant being circulated  
**Effect:** Improves heating capacity at low outdoor temperatures, and enables higher indoor-air outlet temperature adjustment and higher defrost operation speed

Refrigerant passes from the HIC into the compressor through the injection port. Having two refrigerant inlets makes it possible to raise the volume of refrigerant being circulated when the outdoor temperature is low and at the start of heating operation.

# PLZ-SHW SERIES



## Indoor Unit

R32  
R410A



PLA-ZM100/125EA

### Panel

Panel	With Signal Receiver	With 3D i-see Sensor	With Wireless Remote Controller	With Auto Elevation
PLP-6EA				
PLP-6EAL	✓			
PLP-6EAE		✓		
PLP-6EAL	✓	✓		
PLP-6EAJ	✓			✓
PLP-6EAJE	✓	✓		✓
PLP-6EALM	✓		✓	
PLP-6EALME	✓	✓	✓	

## Outdoor Unit

R410A



PUHZ-SHW112VHA(-BS)  
PUHZ-SHW112/140YHA(-BS)

## Remote Controller



Enclosed in  
PLP-6EALM/PLP-6EALME



\*optional



\*optional



\*optional



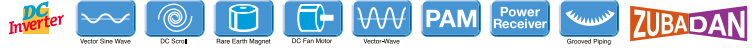
Type	Inverter Heat Pump		
Indoor Unit	PLA-ZM100EA		PLA-ZM125EA
Outdoor Unit	PUHZ-SHW112VHA	PUHZ-SHW112YHA	PUHZ-SHW140YHA
Refrigerant	R410A*1		
<b>Power Supply</b>	Outdoor power supply		
<b>Outdoor (V/Phase/Hz)</b>	230 / 1 / 50	400 / 3 / 50	400 / 3 / 50
<b>Cooling</b>	<b>Capacity</b>	kW	10.0
	Rated	kW	10.0
	Min - Max	kW	4.9 - 11.4
	<b>Total Input</b>	Rated	2.857
	<b>EER</b>		2.50
	<b>EEL Rank</b>		-
	<b>Design Load</b>	kW	10.0
	<b>Annual Electricity Consumption*2</b>	kWh/a	633
	<b>SEER</b>		5.5
	<b>Energy Efficiency Class</b>		A
<b>Heating (Average Season)</b>	<b>Capacity</b>	kW	11.2
	Rated	kW	11.2
	Min - Max	kW	4.5 - 14.0
	<b>Total Input</b>	Rated	2.667
	<b>COP</b>		3.50
	<b>EEL Rank</b>		-
	<b>Design Load</b>	kW	12.7
	<b>Declared Capacity</b>	at reference design temperature	11.2 (-10°C)
		at bivalent temperature	11.2 (-7°C)
		at operation limit temperature	9.3 (-25°C)
	<b>Back Up Heating Capacity</b>	kW	1.5
	<b>Annual Electricity Consumption*2</b>	kWh/a	4420
	<b>SCOP</b>		4.0
	<b>Energy Efficiency Class</b>		A+
<b>Operating Current (max)</b>		A	35.5
<b>Indoor Unit</b>	<b>Input</b>	Rated	0.07
	<b>Operating Current (max)</b>	A	0.47
	<b>Dimensions &lt;Panel&gt;</b>	H x W x D	298-840-840 <40-950-950>
	<b>Weight &lt;Panel&gt;</b>	kg	26 <5>
	<b>Air Volume</b> [Lo-Mi2-Mi1-Hi]	m³/min	19-22-25-28
	<b>Sound Level (SPL)</b> [Lo-Mi2-Mi1-Hi]	dB(A)	31-34-37-40
	<b>Sound Level (PWL)</b>	dB(A)	61
<b>Outdoor Unit</b>	<b>Dimensions</b>	H x W x D	1350-950-330 (+30)
	<b>Weight</b>	kg	120
	<b>Air Volume</b>	Cooling	m³/min
		Heating	m³/min
	<b>Sound Level (SPL)</b>	Cooling	dB(A)
		Heating	dB(A)
	<b>Sound Level (PWL)</b>	Cooling	dB(A)
	<b>Operating Current (max)</b>	A	35
	<b>Breaker Size</b>	A	40
<b>Ext. Piping</b>	<b>Diameter</b>	Liquid / Gas	9.52 / 15.88
	<b>Max. Length</b>	Out-In	m
	<b>Max. Height</b>	Out-In	m
<b>Guaranteed Operating Range</b> [Outdoor]	<b>Cooling*3</b>	°C	-15 ~ +46
	<b>Heating</b>	°C	-25 ~ +21

\*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<sub>2</sub> 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 Optional air protection guide is required where ambient temperature is lower than -5°C.

# PLZ-SHW SERIES



## Indoor Unit

R410A



PLA-M100/125EA

### Panel

Panel	With Signal Receiver	With 3D i-see Sensor	With Wireless Remote Controller	With Auto Elevation
PLP-6EA				
PLP-6EAL	✓			
PLP-6EAE		✓		
PLP-6EALE	✓	✓		
PLP-6EAJ	✓			✓
PLP-6EAJE	✓	✓		✓
PLP-6EALM	✓		✓	
PLP-6EALME	✓	✓	✓	

## Outdoor Unit

R410A



PUHZ-SHW112VHA (-BS)  
PUHZ-SHW112/140YHA (-BS)

## Remote Controller



Enclosed in  
PLP-6EALM/PLP-6EALME



\*optional



\*optional



\*optional



Type	Inverter Heat Pump		
Indoor Unit	PLA-M100EA		PLA-M125EA
Outdoor Unit	PUHZ-SHW112VHA	PUHZ-SHW112YHA	PUHZ-SHW140YHA
Refrigerant	R410A*1		
<b>Power Supply</b>	Outdoor power supply		
<b>Source</b>	Outdoor (V/Phase/Hz)		
	230 / 1 / 50	400 / 3 / 50	400 / 3 / 50
<b>Cooling</b>	<b>Capacity</b>	Rated Min - Max	kW kW
			10.0 4.9 - 11.4
	<b>Total Input</b>	Rated	kW
			2.940
	<b>EER</b>		
			10.0
	<b>EEL Rank</b>		
			A
	<b>Design Load</b>		kW
			10.0
	<b>Annual Electricity Consumption*2</b>		kWh/a
			661
	<b>SEER</b>		
			5.3
<b>Heating (Average Season)</b>	<b>Capacity</b>	Rated Min - Max	kW kW
			11.2 4.5 - 14.0
	<b>Total Input</b>	Rated	kW
			2.793
	<b>COP</b>		
			11.2
	<b>EEL Rank</b>		
			A
	<b>Design Load</b>		kW
			12.7
	<b>Declared Capacity</b>	at reference design temperature at bivalent temperature at operation limit temperature	kW kW kW
			11.2 (-10°C) 11.2 (-7°C) 9.3 (-25°C)
	<b>Back Up Heating Capacity</b>		kW
			1.5
	<b>Annual Electricity Consumption*2</b>		kWh/a
			4445
	<b>SCOP</b>		
			4.0
	<b>Energy Efficiency Class</b>		
			A+
<b>Operating Current (max)</b>			A
			35.5
<b>Indoor Unit</b>	<b>Input</b>	Rated	kW
			0.07
	<b>Operating Current (max)</b>		A
			0.46
	<b>Dimensions &lt;Panel&gt;</b>	H x W x D	mm
			298-840-840 <40-950-950>
	<b>Weight &lt;Panel&gt;</b>		kg
			24 <5>
	<b>Air Volume</b> [Lo-Mi2-Mi1-Hi]		m³/min
			19 - 23 - 26 - 29
	<b>Sound Level (SPL)</b> [Lo-Mi2-Mi1-Hi]		dB(A)
			31 - 34 - 37 - 40
	<b>Sound Level (PWL)</b>		dB(A)
			61
<b>Outdoor Unit</b>	<b>Dimensions</b>	H x W x D	mm
			1350 - 950 - 330 (+30)
	<b>Weight</b>		kg
			120
	<b>Air Volume</b>	Cooling Heating	m³/min m³/min
			100 100
	<b>Sound Level (SPL)</b>	Cooling Heating	dB(A) dB(A)
			51 52
	<b>Sound Level (PWL)</b>	Cooling	dB(A)
			69
	<b>Operating Current (max)</b>		A
			35
	<b>Breaker Size</b>		A
			40
<b>Ext. Piping</b>	<b>Diameter</b>	Liquid / Gas	mm
			9.52 / 15.88
	<b>Max. Length</b>	Out-In	m
			75
	<b>Max. Height</b>	Out-In	m
			30
<b>Guaranteed Operating Range</b> [Outdoor]	<b>Cooling</b> *3		°C
			-15 ~ +46
	<b>Heating</b>		°C
			-25 ~ +21

\*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<sub>2</sub> 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 Optional air protection guide is required where ambient temperature is lower than -5°C.

# PEDZ-SHW JA SERIES



## Indoor Unit

R32  
R410A



PEAD-M100/125JA(L)

## Outdoor Unit

R410A



PUAH-SHW112VHA(-BS)  
PUAH-SHW112/140YHA(-BS)

## Remote Controller



\*optional



\*optional



\*optional



\*optional



Type			Inverter Heat Pump			
Indoor Unit			PEAD-M100JA(L)		PEAD-M125JA(L)	
Outdoor Unit			PUAH-SHW112VHA(-BS)	PUAH-SHW112YHA(-BS)	PUAH-SHW140YHA(-BS)	
Refrigerant			R410A*1			
Power Supply			Outdoor power supply			
Source			VHA:230 / Single / 50, YHA:400 / Three / 50			
Outdoor (V/Phase/Hz)						
Cooling	Capacity	Rated	kW	10.0	10.0	12.5
		Min - Max	kW	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0
	Total Input	Rated	kW	2.924 (2.904)	2.924 (2.904)	3.895 (3.875)
	EER			-	-	3.21 (3.22)
		EEL Rank		-	-	-
	Design Load		kW	10.0	10.0	-
	Annual Electricity Consumption*2		kWh/a	729 (714)	729 (714)	-
	SEER			4.8 (4.9)	4.8 (4.9)	-
Energy Efficiency Class				B	B	
Heating (Average Season)	Capacity	Rated	kW	11.2	11.2	14.0
		Min - Max	kW	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0
	Total Input	Rated	kW	3.103	3.103	3.879
	COP			-	-	3.61
		EEL Rank		-	-	-
	Design Load		kW	12.7	12.7	-
	Declared Capacity	at reference design temperature	kW	11.2	11.2	-
		at bivalent temperature	kW	11.2	11.2	-
		at operation limit temperature	kW	9.4	9.4	-
	Back Up Heating Capacity		kW	1.5	1.5	-
Annual Electricity Consumption*2		kWh/a	4664	4664	-	
SCOP			3.8	3.8	-	
Energy Efficiency Class				A	A	
Operating Current (max)			A	37.7	15.7	15.8
Indoor Unit	Input [Cooling / Heating]	Rated	kW	0.25 (0.23) / 0.23	0.25 (0.23) / 0.23	0.36 (0.34) / 0.34
		Operating Current (max)	A	2.65	2.65	2.76
	Dimensions	H x W x D	mm	250 - 1400 - 732		
	Weight		kg	41 (40)	41 (40)	43 (42)
	Air Volume [Lo-Mid-Hi]		m <sup>3</sup> /min	24.0 - 29.0 - 34.0	24.0 - 29.0 - 34.0	29.5 - 35.5 - 42.0
	External Static Pressure		Pa	35 / 50 / 70 / 100 / 150	35 / 50 / 70 / 100 / 150	35 / 50 / 70 / 100 / 150
	Sound Level (SPL) [Lo-Mid-Hi]		dB(A)	29 - 34 - 38	29 - 34 - 38	33 - 36 - 40
	Sound Level (PWL)		dB(A)	61	61	65
Outdoor Unit	Dimensions	H x W x D	mm	1350 - 950 - 330 (+30)		
	Weight		kg	120	134	134
	Air Volume	Cooling	m <sup>3</sup> /min	100.0	100.0	100.0
		Heating	m <sup>3</sup> /min	100.0	100.0	100.0
	Sound Level (SPL)	Cooling	dB(A)	51	51	51
		Heating	dB(A)	52	52	52
	Sound Level (PWL)	Cooling	dB(A)	69	69	69
		Operating Current (max)		A	35.0	13.0
Breaker Size		A	40	16	16	
Ext. Piping	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
	Max. Length	Out-In	m	75	75	75
	Max. Height	Out-In	m	30	30	30
Guaranteed Operating Range [Outdoor]	Cooling*3	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	
	Heating	°C	-25 ~ +21	-25 ~ +21	-25 ~ +21	

\*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<sub>2</sub> 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 Optional air protection guide is required where ambient temperature is lower than -5°C.

# PKZ-SHW SERIES



## Indoor Unit

R32  
R410A



PKA-M100KA(L)

## Outdoor Unit

R410A



PUAH-SHW112VHA(-BS)  
PUAH-SHW112/140YHA(-BS)

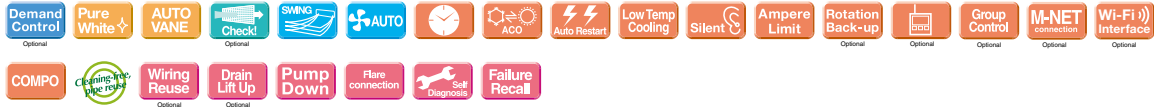
## Remote Controller



\*optional

\*optional

\*optional



Type		Inverter Heat Pump				
Indoor Unit		PKA-M100KA(L)				
Outdoor Unit		PUAH-SHW112VHA(-BS)		PUAH-SHW112YHA(-BS)		
Refrigerant		R410A*1				
Power Supply		Outdoor power supply				
Source		VHA:230 / Single / 50, YHA:400 / Three / 50				
Outdoor (V/Phase/Hz)						
Cooling	Capacity	Rated	kW	10.0	10.0	
		Min - Max	kW	4.9 - 11.4	4.9 - 11.4	
	Total Input	Rated	kW	2.924	2.924	
	Design Load		kW	10.0	10.0	
	Annual Electricity Consumption*2		kWh/a	673	673	
	SEER			5.2	5.2	
		Energy Efficiency Class		A	A	
Heating (Average Season)	Capacity	Rated	kW	11.2	11.2	
		Min - Max	kW	4.5 - 14.0	4.5 - 14.0	
	Total Input	Rated	kW	3.103	3.103	
	Design Load		kW	12.7	12.7	
	Declared Capacity		at reference design temperature	kW	11.2	11.2
			at bivalent temperature	kW	11.2	11.2
			at operation limit temperature	kW	9.4	9.4
	Back Up Heating Capacity		kW	1.5	1.5	
Annual Electricity Consumption*2		kWh/a	4664	4664		
SCOP			3.8	3.8		
		Energy Efficiency Class		A	A	
Operating Current (max)			A	35.6	13.6	
Indoor Unit	Input	Rated	kW	0.08	0.08	
	Operating Current (max)		A	0.57	0.57	
	Dimensions <Panel>	H x W x D	mm	365 - 1170 - 295		
	Weight <Panel>		kg	21	21	
	Air Volume [Lo-Mid-Hi]		m <sup>3</sup> /min	20 - 23 - 26		
	Sound Level (SPL) [Lo-Mid-Hi]		dB(A)	41 - 45 - 49		
	Sound Level (PWL)		dB(A)	65		
Outdoor Unit	Dimensions	H x W x D	mm	1350 - 950 - 330 (+30)		
	Weight		kg	120	134	
	Air Volume	Cooling	m <sup>3</sup> /min	100.0	100.0	
		Heating	m <sup>3</sup> /min	100.0	100.0	
	Sound Level (SPL)	Cooling	dB(A)	51	51	
		Heating	dB(A)	52	52	
	Sound Level (PWL)	Cooling	dB(A)	69	69	
		Heating	dB(A)	69	69	
	Operating Current (max)		A	35.0	13.0	
	Breaker Size		A	40	16	
Ext. Piping	Diameter	Liquid / Gas	mm	9.52 / 15.88		
	Max. Length	Out-In	m	75		
	Max. Height	Out-In	m	30		
Guaranteed Operating Range (Outdoor)	Cooling*3	°C	-15 ~ +46			
	Heating	°C	-25 ~ +21			

\*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<sub>2</sub> 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 Optional air protection guide is required where ambient temperature is lower than -5°C.

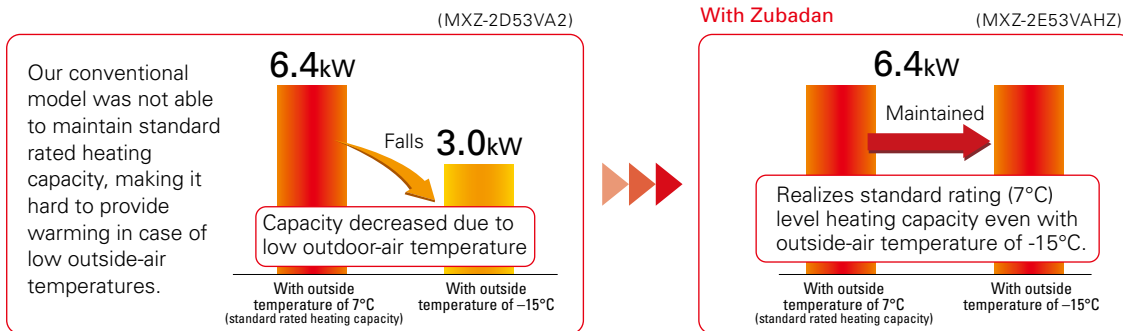
# MXZ-VAHZ SERIES



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

## Standard rated heating capacity is maintained even when the outside-air temperature drops to $-15^{\circ}\text{C}$ .

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



## Can operate at outside-air temperature of $-25^{\circ}\text{C}$

1. Incorporated key parts resistant to cold of up to  $-25^{\circ}\text{C}$  after rigorous selection.
2. Printed circuit board-core of the air conditioner—is coated on both sides to protect it in harsh environments.

## Freeze-prevention heater standard equipment

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

Drain water **freezes** after operation in the harsh cold



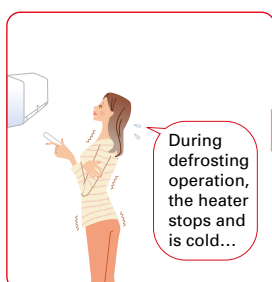
With Hyper heating Does not freeze!



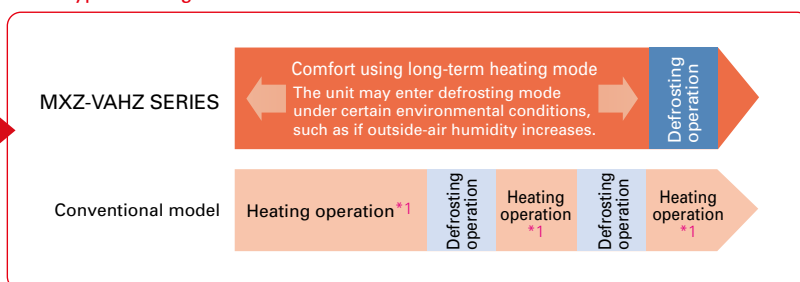
## Continuous heating for long periods

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

Extremely cold outside



With Hyper heating

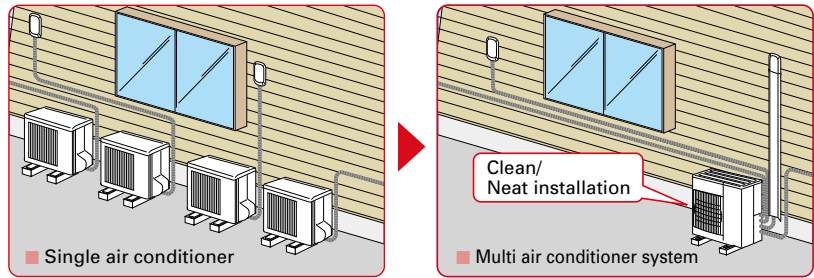


\*1: Conventional model performs continuous heating approximately 30min up to a maximum of 90min.

## One outdoor unit supports multiple indoor units.

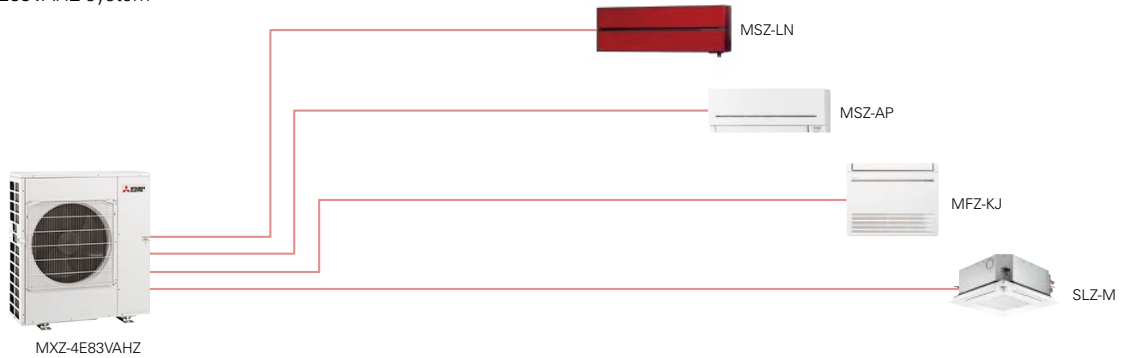
With MXZ-VAHZ, one outdoor unit can cool and heat up to six rooms. They can be installed neatly in sites with limited space such as condominium balconies.

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



### EXAMPLE SYSTEM

MXZ-4E83VAHZ 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

R410A



MXZ-2E53VAHZ

4-room use

R410A



MXZ-4E83VAHZ

### INDOOR UNITS

Wall-mounted

R32 R410A



MSZ-LN

R32 R410A



MSZ-AP

R410A



MSZ-FH

R410A



MSZ-SF

R32 R410A



MSZ-EF

R410A



MSZ-GF

Floor-standing

R410A



MFZ-KJ

Cassette

R32

R410A



SLZ

R32

R410A



MLZ-KP

R32

R410A



PLA

Ceiling-suspended

R32

R410A

\*1



PCA

Ceiling-concealed

R32

R410A

\*1



SEZ

R32

R410A

\*1



PEAD

\*1: P series cannot connect with MXZ-4E83VAHZ when ampere limit adjustment function is operated.

# MXZ-VAHZ SERIES



## Outdoor Unit



Type		Inverter Heat Pump				
Indoor Unit		Please refer to*4 *5				
Outdoor Unit		MXZ-2E53VAHZ	MXZ-4E83VAHZ			
Refrigerant		R410A*1				
Power Supply		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	2.25	
	Design Load		kW	5.3	8.3	
	Annual Electricity Consumption*2		kWh/a	282	447	
	SEER*4			6.5	6.5	
		Energy Efficiency Class*4				
		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	1.90
	Design Load		kW	6.4	10.1	
	Declared Capacity	at reference design temperature	kW	6.4	9.0	
		at bivalent temperature	kW	6.4	9.0	
		at operation limit temperature	kW	2.4	2.5	
	Back Up Heating Capacity		kW	0.0	1.1	
	Annual Electricity Consumption*2		kWh/a	2165	3446	
SCOP			4.1	4.1		
		Energy Efficiency Class*4				
		A+				
Max. Operating Current (Indoor+Outdoor)		A	15.6	28.0		
Outdoor Unit	Dimensions	H x W x D	mm	796 x 950 x 330	1048 x 950 x 330	
	Weight		kg	61	87	
	Air Volume	Cooling		m <sup>3</sup> /min	47.0	63.0
		Heating		m <sup>3</sup> /min	47.0	77.0
	Sound Level (SPL)	Cooling		dB(A)	45	53
		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 x 2 / 9.52 x 2	6.35 x 4 / 12.7 x 1 + 9.52 x 3	
	Total Piping Length (max)		m	30	70	
	Each Indoor Unit Piping Length (max)		m	20	25	
	Max. Height		m	15 (10)*3	15 (10)*3	
	Chargeless Length		m	20	25	
Guaranteed Operating Range (Outdoor)	Cooling	°C	-10 ~ +46	-10 ~ +46		
	Heating	°C	-25 ~ +24	-25 ~ +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 2088. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 2088 times higher than 1 kg of CO<sub>2</sub>, 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.

\*3 Actual energy consumption will depend on how the appliance is used and where it is located.

\*4 If the outdoor unit is installed higher than the indoor unit, max. height is reduced to 10m.

\*5 EER/COP, EEL rank, SEER/SCOP values and energy efficiency class are measured when connected to the indoor units listed below.

MXZ-2E53VAHZ MSZ-EF18VE + MSZ-EF35VE  
MXZ-4E83VAHZ MSZ-EF18VE + MSZ-EF18VE + MSZ-EF22VE + MSZ-EF25VE

\*5 Indoor unit compatibility table is shown on page 114.



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

# 3 Important Points to Remember When Installing the Outdoor Unit



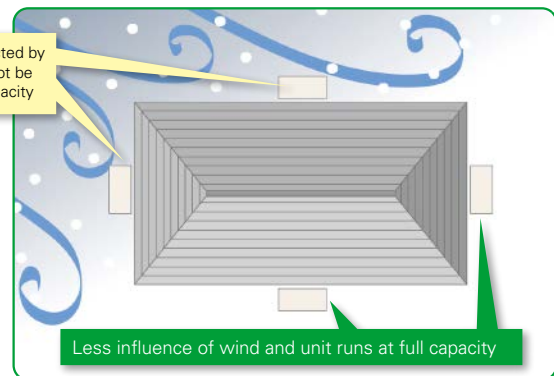
\* RAC/PAC (inc. Air to Water) /MXZ

Wind and snow can significantly reduce capacity. Be sure to check the information 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.

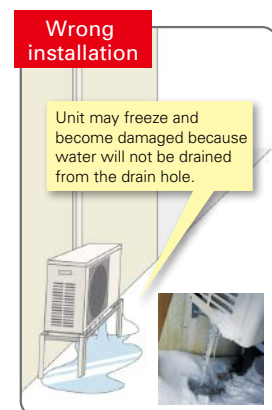
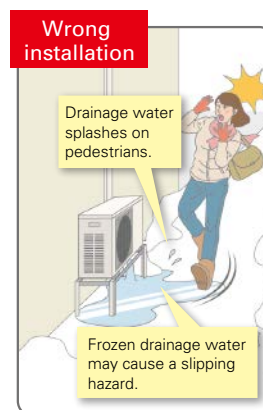
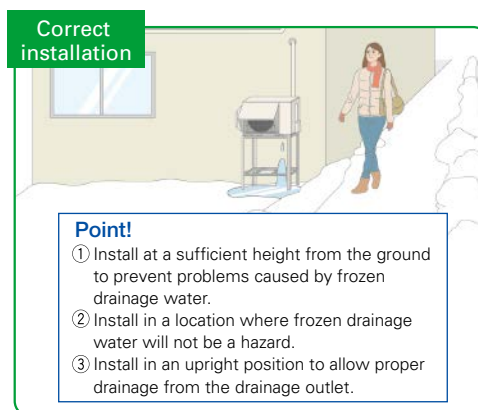
Units are easily affected by wind and unit may not be able to run at full capacity



## 2 Measures for Drainage of Water

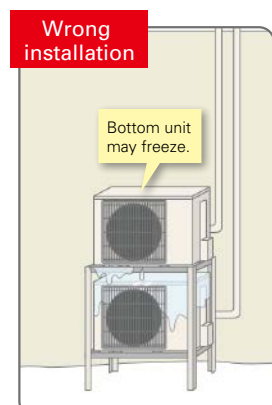
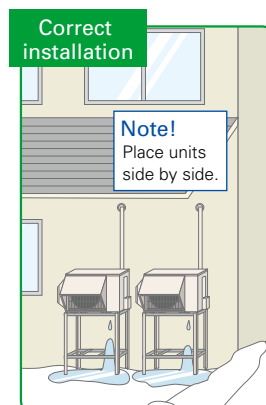
### Case 1: Unit is installed close to passage (walkway)

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]

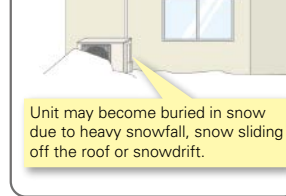
**Correct installation**



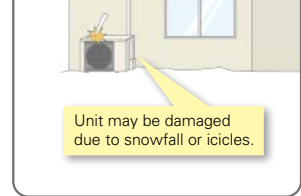
**Point!**

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



**Wrong installation**

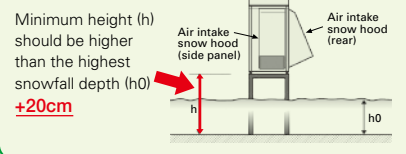


Use a stand to add sufficient height to protect the unit heat exchanger from snow and prevent icicles forming during defrost operation.

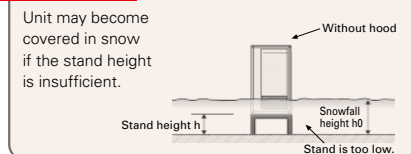
### Install snow protection hood as necessary

[RAC / PAC / MXZ]

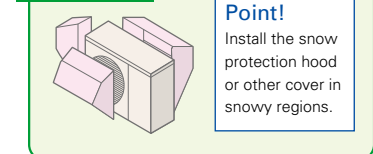
**Correct installation**



**Wrong installation**

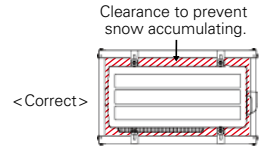


**Correct installation**



### 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).
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.



## CAUTION

### About disposal of drainage water

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.