POWERFUL HEATING

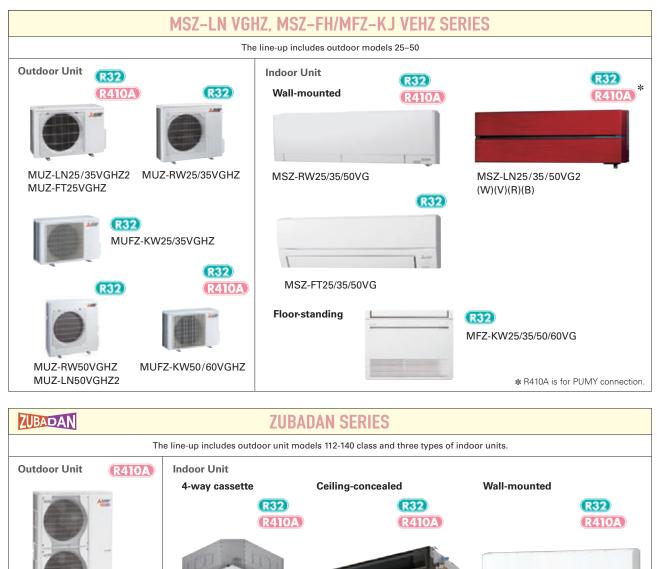






SELECTION

Choose the series that best matches the building layout.



PUHZ-SHW112/HA PUHZ-SHW112/140YHA PLA Series PEAD Series



PKA Series

MSZ-RW SERIES

As a flagship model, RW series realises further outstanding heating performances under extremely cold outdoor temperature even with high energy efficiency. Moreover, excellent air purifying functions and many other smart features deliver a great comfort to you.

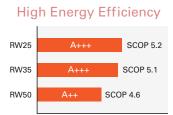


MSZ-RW25/35/50VG

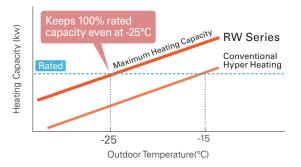
Heating Performance

Excellent heating performance of RW series delivers the prime warmth into your room. RW series' powerful compressor realises re-

markable maximum heating capacity in low ambient temperature with a high energy efficiency. Also, RW series performs 100% rated capacity even at -25°C, and the operation is guaranteed down to -30°C for all classes (25/35/50).



Improved Heating Capacity



Wider Heating Operation Range



Outdoor Temperature(°C)

Longer Continuous Heating Operation

RW series with a high frost-detecting technology, made it possible to provide maximum continuous heating operation as long as 150 minutes with less frequent defrosting operations, maintaining a comfortable indoor environment in a long term.



*1 The time for heating and defrosting operation depends on the environmental conditions.

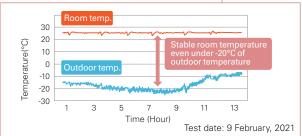


Tested in Sweden and Norway

We have conducted field tests in several cold sites and received high user satisfactions with sufficient air volume and remarkable heating performance of RW series. As the test result shows, we confirmed that RW series provides stable indoor comfortability even in extremely low ambient temperature.



Test result in Norway



3D i-see Sensor

3D i-see sensor with the sophisticated hemispherical design measures the temperature of the room with an infrared sensor and detects the position of people, which allows you to choose your preferable airflow such as indirect and direct airflow.



Circulator Mode

In heating mode, after reaching the setting temperature, indoor unit automatically starts FAN mode to circulate the air and eliminate temperature unevenness in your room.





Plasma Quad Plus is a plasma-based filtering system which contributes to a better air quality in your room. Plasma Quad Plus applies a voltage of approximately 6,000 volts to the electrode to generate plasma, effectively removing various kinds of airborne particles such as viruses, bacteria, mold, allergen, dust, and PM2.5.





Quick Air Purifying Set

the air in your room.

Virus (Airborne)

99% inhibited^{*1}

We have confirmed Plasma Quad Plus inhibits 99.8% of adhered COVID-19. *2

- *1 Tested Organization: vrc. Center, SMC Test Report No: 28-002 Test Method: JEM1467 Test result: Neutralised 99% of Influenza A virus in 72 minutes in a 25m³ test space
- Tested Organization: Japan Textile Products Quality and Technology Center, Test Report No: 20KB070569, Tested Materials: SARS-CoV-2, Test Method: Original (The test was conducted on the Plasma Quad device alone, not designed to evaluate product performance.) Test Result: Inhibited 99.8% in 360 minutes. The result without the effect of natural attenuation is 96.3%.

Deodorising Filter

The catalyst in Deodorising Filter denatures the odorous components and destroys them from the source of the odour, quickly delivering fresh air to your room.



If you press "PURIFIER" button when the unit is turned off,

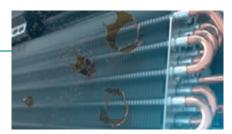
Plasma Quad Plus starts to operate with a fan mode and purifies







Mitsubishi Electric's Dual Barrier Coating prevents dust and greasy dirt from accumulating on the inner surface of the indoor unit; keeping your air conditioner clean. Two barrier coating prevents hydrophilic dirt penetration, and "hydrophilic particles" prevent hydrophobic dirt from getting into the air conditioner.





*Comparison of stains after 10 years of use (based on internal research)

*1 *2 Verified by SIAA test method (JIS Z 2911) with No. JP0501014A00020 on SIAA antifungal agent positive list. Antifungal effect depends on the working environment. Fungicides comply with the SIAA safety criteria. What is SIAA? https://www.kohkin.net/en_index.htm

Drive Mode Selector

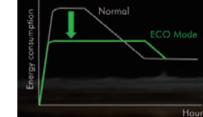
Drive Mode Selector allows you to select a preferred control setting according to your residential environment from three modes, Wide Room mode, Quiet mode, and Eco mode.

Wide Room Mode

Provides a better air distribution in your room and raises the comfort level.



Eco Mode



Quiet Mode

Lowers operation noise level, creating quieter and peaceful environment.



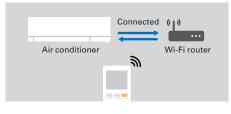
Built-in Wi-Fi & App Control

Indoor unit is equipped with Wi-Fi interface which allows you to access MELCloud app, providing you with a flexible control of air conditioner on your smartphone, tablets, and PC.



Easy Wi-Fi Set Up

You can easily connect Wi-Fi adaptor in the indoor unit and your local router with just a simple operation of remote controller.



Remote Controller with Backlight

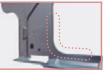
The remote controller screen is equipped with LED backlight. The luminous screen allows you to check the setting easily even in the dark.



Back Plate with a Hole

With a hole as default in the center of the back plate, the piping can be easily taken out from the back. The edge of the hole is reinforced to ensure the strength.





The edge of the hole is reinforced to ensure the strength.



A part of the packing material can be used as a spacer to lift indoor unit during the left-side piping work, which makes stable installation work possible.



Bottom Removable Structure

The corner box and the bottom panel are individually removable, and it makes easy to insert tools even in the case of left-side piping.



Easy Plugging/Unplugging of Drain Hose

One-touch structure with screw- free claw fixing. Easy to plug and unplug the drain hose when changing on the left and right.



MSZ-RW series	R32 Inverter I Inverte
Indoor Unit / Remote Controller	Outdoor Unit
White>Image: State of the state of t	MUZ-RW25/35VGHZ MUZ-RW50VGHZ
3D řísee Sensor Osvor	ing Double SMING SMING Selector Night Back Light Weekly Timer
Low Temp I save ↓ ⇒ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	on Interface connection Emiliant Connection Diagnosis Recal

Туре					Inverter Heat Pump				
ndoor Ur	it			MSZ-RW25VG	MSZ-RW35VG	MSZ-RW50VG			
Dutdoor l	Jnit			MUZ-RW25VGHZ	MUZ-RW35VGHZ	MUZ-RW50VGHZ			
efrigera	nt				R32 (*1)	•			
ower	Source			Outdoor Power supply					
Supply	Outdoor (V/Phase/H	lz)			230/Single/50				
Cooling	Design Load		kW	2.5	3.5	5.0			
	Annual Electricity Co	onsumption (*2)	kWh/a	78	130	230			
	SEER (* 4)			11.2	9.4	7.6			
		Energy Efficiency Class		A+++	A+++	A++			
	Capacity	Rated	kW	2.5	3.5	5.0			
		Min - Max	kW	0.9 - 3.5	1.0 - 4.0	1.4 - 5.8			
	Total Input	Rated	kW	0.435	0.770	1.380			
leating	Design Load		kW	3.2	4.0	6.0			
Average	Declared Capacity	at reference design temperature	kW	3.2 (-10°C)	4.0 (-10°C)	6.0 (-10°C)			
eason)(*5)		at bivalent temperature	kW	3.2 (-10°C)	4.0 (-10°C)	6.0 (-10°C)			
		at operation limit temperature	kW	2.6 (-25°C)	2.6 (-25°C)	4.0 (-25°C)			
	Back Up Heating Capacity		kW	0.0	0.0	0.0			
	Annual Electricity Co		kWh/a	856	1097	1800			
	SCOP (*4)			5.2	5.1	4.6			
	Energy Efficiency Class			A+++	A+++	A++			
	Capacity	Rated	kW	3.2	4.0	6.0			
	Min - Max		kW	0.8 - 6.3	1.1 - 7.0	1.8 - 8.7			
	Total Input Rated		kW	0.580	0.810	1.450			
peratin	g Current (max)	•	A	9.8	11.2	15.2			
ndoor	Input	Input Rated		0.021	0.022	0.041			
Init	Operating Current (max)		A	0.21	0.22	0.37			
	Dimensions	$H \times W \times D$	mm	305 - 998 - 247	305 - 998 - 247	305 - 998 - 247			
	Weight		kg	14.5	14.5	14.5			
	Air Volume	Cooling	m³/min	5.1 - 6.5 - 9.0 - 11.5 - 13.7	5.1 - 6.9 - 9.0 - 11.5 - 14.1	7.8 - 9.5 - 11.1 - 13.1 - 16.2			
	(SLo-Lo-Mid-Hi-SHi (*		m³/min	5.1 - 7.8 - 9.5 - 11.7 - 14.1	5.1 - 7.8 - 9.5 - 11.7 - 14.5	7.8 - 10.7 - 12.5 - 14.7 - 18.2			
	Sound Level (SPL)	Cooling	dB(A)	19 - 23 - 29 - 36 - 42	19 - 24 - 29 - 36 - 43	26 - 30 - 34 - 39 - 45			
	(SLo-Lo-Mid-Hi-SHi*	³⁾) Heating	dB(A)	19 - 25 - 30 - 36 - 41	19 - 25 - 30 - 36 - 42	25 - 32 - 37 - 41 - 46			
	Sound Level (PWL)	1 3	dB(A)	58	59	59			
utdoor	Dimensions	$H \times W \times D$	mm	714 - 800 - 285	714 - 800 - 285	880 - 840 - 330			
Init	Weight	1	kg	39.5	40	54			
	AirVolume	Cooling	m³/min	35.1	37.8	49.3			
		Heating	m³/min	37.8	37.8	55.6			
	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 (r	nax)	A	9.6	11.0	14.8			
	Breaker Size		A	10	12	16			
xt.	Diameter	Liquid / Gas	mm	6.35/9.52	6.35/9.52	6.35/9.52			
Piping	Max. Length	Out-In	m	20	20	30			
	Max. Height	Out-In	m	12	12	15			
	ed Operating Range	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46			
Juarantee	cu operating nange								

 (*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 675. 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 CO2, 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) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
 (*3) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

 (*3) ENE: 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 53-55 for heating (warmer season) specifications.
 (*5) Please see page 53-55 for heating (warmer season) specifications.

LN VGHZ RAIDA Single / MXZ, PUMY PUMY SERIES

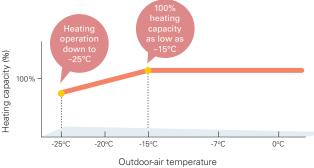
Unlike conventional air conditioning systems, the LN Series don't lose heating capacity when it's cold outside. Original technologies ensure excellent heating performance under extremely low outdoor temperatures and an impressive guaranteed operating range.



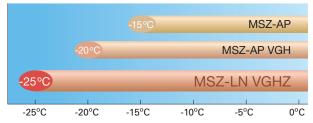


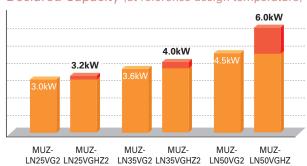
Unparalleled Heating Performance

LN 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.



Operating Range



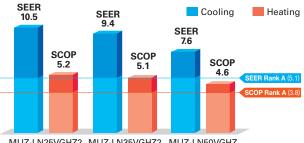


Declared Capacity (at reference design temperature)



High Energy Efficiency – Energy Rank of A⁺ or higher for All Models Im

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



MUZ-LN25VGHZ2 MUZ-LN35VGHZ2 MUZ-LN50VGHZ

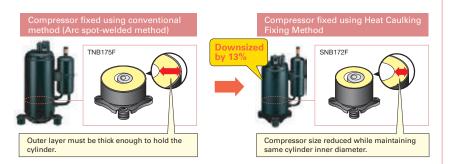
Freeze-prevention Heater Equipped as Standard

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



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.



MSZ-LN VGHZ series	R32 Inverter Company De Fan Mar De Fan Mar Converte Pany C
Indoor Unit / Remote Controller <pearl white=""></pearl>	CRUby Red>
<natural white=""></natural>	<onyx black=""> Image: Constant of the second second</onyx>
Sensor AREA Sensor VANE	Plasmar Dusl Barrier V Blocking Filter Control Double Vare SWNG Vare Image: Control Filter Control Double Vare SWNG Vare Image: Control Filter Vare Wieckly Timer Image: Control Vare Image: Control Vare Image: Control Image: Control Vare

Гуре					Inverter Heat Pump				
ndoor Un	it			MSZ-LN25VG2(W)(V)(R)(B)	MSZ-LN35VG2(W)(V)(R)(B)	MSZ-LN50VG2(W)(V)(R)(B)			
)utdoor l	Jnit			MUZ-LN25VGHZ2	MUZ-LN35VGHZ2	MUZ-LN50VGHZ2			
efrigerar	ıt				R32 (*1)				
ower	Source			Outdoor Power supply					
Supply	Outdoor (V/Phase/H	lz)			230/Single/50				
Cooling	Design Load			2.5	3.5	5.0			
	Annual Electricity Co	onsumption (*2)	kWh/a	83	130	230			
	SEER (*4)		· · · · ·	10.5	9.4	7.6			
		Energy Efficiency Class		A+++	A+++	A++			
	Capacity	Rated	kW	2.5	3.5	5.0			
		Min - Max	kW	0.8 - 3.5	0.8 - 4.0	1.4 - 5.8			
	Total Input	Rated	kW	0.485	0.820	1.380			
eating	Design Load		kW	3.2 (-10°C)	4.0 (-10°C)	6.0 (-10°C)			
Average	Declared Capacity	at reference design temperature	kW	3.2 (-10°C)	4.0 (-10°C)	6.0 (-10°C)			
eason)(*5)	. ,	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 Co		kWh/a	861	1098	1826			
	SCOP (* 4)	•		5.2	5.1	4.6			
	Energy Efficiency Class			A+++	A+++	A++			
	Capacity	Rated	kW	3.2	4.0	6.0			
		Min - Max	kW	0.8 - 6.3	0.9 - 6.6	1.8 - 8.7			
	Total Input Rated		kW	0.600	0.820	1.480			
peratin	g Current (max)	•	A	9.9	10.5	15.2			
ndoor	Input	Rated	kW	0.027	0.027	0.034			
nit	Operating Current (r	nax)	A	0.3	0.3	0.4			
	Dimensions	H × W × D	mm	307 - 890 - 233	307 - 890 - 233	307 - 890 - 233			
	Weight		kg	15.5	15.5	15.5			
	Air Volume	Cooling	m ³ /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			
	(SLo-Lo-Mid-Hi-SHi	³⁾) Heating	m ³ /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)	Cooling	dB(A)	19 - 23 - 29 - 36 - 42	19 - 24 - 29 - 36 - 43	27 - 31 - 35 - 39 - 46			
	(SLo-Lo-Mid-Hi-SHi (*		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			
utdoor	Dimensions	H × W × D	mm	550 - 800 - 285	550 - 800 - 285	880 - 840 - 330			
Init	Weight	1	kg	35	36	53			
	AirVolume	Cooling	m³/min	31.4	33.8	48.8			
		Heating	m ³ /min	27.4	27.4	55.0			
	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 (r	ě	A	9.6	10.2	14.8			
	Breaker Size		A	10	12	16			
xt.	Diameter	Liquid / Gas	mm	6.35/9.52	6.35/9.52	6.35/9.52			
Piping	Max. Length	Out-In	m	20	20	30			
	Max. Height	Out-In	m	12	12	15			
Guarantee	d Operating Range	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46			
Outdoor]		Heating	°C	-25 ~ +24	-25 ~ +24	10 1.10			

 Instrument
 Impleting
 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 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 CO2, 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 dth 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) SEH; 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 53-55 for heating (warmer season/colder season) specifications.

FT VGHZ Single / Multi SERIES

Unlike conventional air conditioning systems, the FT 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. Furthermore, the smaller and stylish indoor unit does not give you the limitation of installation location.



MSZ-FT25/35/50VG(K)

Compact Design

The FT series features its compact design with 280mm height and 229mm depth, which is suitable for the installation above the door.

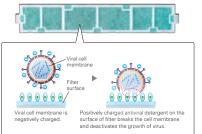


V Blocking Filter (Optional)

V Blocking Filter (TLTTT)

V Blocking Filter with antiviral effect inhibits 99% of adhered virus, and other harmful substances, such as bacteria, mold

and allergen. Two-layered filter with non-woven fabric and electrostatic filter can effectively capture and remove small particles from the air in your room.



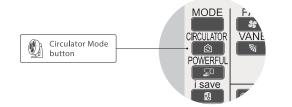
Remote Controller with Backlight

The remote controller screen is equipped with an LED backlight. The luminous screen allows you to check the setting easily even in the dark.



Circulator Mode

After reaching the target temperature, heating mode will automatically switch to Circulator mode, which makes the unit go into "fan-only" state and mixes warm air in the room.





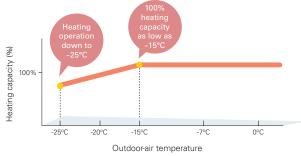
Built-in Wi-Fi

(MSZ-FT25/35/50VGK)

Mitsubishi Electric Wi-Fi Control gives you the freedom to tailor your heating and cooling needs through computers, tablets, or smart-phones from anywhere.

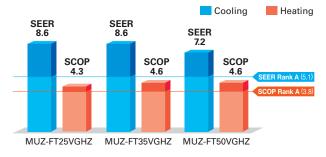
Hyper Heating

Mitsubishi Electric's powerful compressor and highly cold-resistant parts enable the heat pump to provide 100% or more heating capacity even at -15° C, and also the heating operation is guaranteed down to -25° C.



High Energy Efficiency – Energy Rank of A⁺ 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-FT VGHZ simultaneously achieves high heating capacity and energy-saving performance.



(MSZ-FT25/35/50VG(K)-SC Scandinavian Model)



Image is for illustration purposes.

MSZ-FT VGHZ series	Inverter Cornword	PAM SEC SEC SCOP Growed Plang
Indoor Unit	Outdoor Unit	Remote Controller
MSZ-FT25/35/50VG(K)	MUZ-FT25VGHZ MUZ-FT35/50VGHZ	
V Blocking Eltern 4/x100y	kty r	Group Control Optional Control
Wi-Fi J) III 10°C IIII Night Back Light Remote Connection	Set Recall	

Гуре					Inverter Heat Pump				
ndoor Un	it			MSZ-FT25VG(K)	MSZ-FT35VG(K)	MSZ-FT50VG(K)			
)utdoor l	Jnit			MUZ-FT25VGHZ	MUZ-FT35VGHZ	MUZ-FT50VGHZ			
lefrigerar	nt				R32 (* 1)				
ower	Source			Outdoor power supply					
Supply	Outdoor (V/Phase/Hz)				230 / Single / 50				
Cooling	Design Load			2.5	3.5	5.0			
	Annual Electricity Co	onsumption (*2)	kWh/a	101	142	243			
	SEER (*4)		· · · · ·	8.6	8.6	7.2			
		Energy Efficiency Class		A+++	A+++	A++			
	Capacity	Rated	kW	2.5	3.5	5.0			
		Min - Max	kW	0.8 - 3.5	0.8 - 4.0	0.8 - 5.2			
	Total Input	Rated	kW	0.580	0.910	1.630			
leating	Design Load	-	kW	3.2 (-10°C)	4.0 (-10°C)	5.0 (-10°C)			
Average	Declared Capacity	at reference design temperature	kW	3.2 (-10°C)	4.0 (-10°C)	5.0 (-10°C)			
eason)(*5)		at bivalent temperature	kW	3.2 (-10°C)	4.0 (-10°C)	5.0 (-10°C)			
		at operation limit temperature	kW	3.0 (-25°C)	3.4 (-25°C)	3.6 (-25°C)			
	Back Up Heating Capacity		kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)			
	Annual Electricity Co	onsumption (*2)	kWh/a	973	1216	1625			
	SCOP (*4)			4.6	4.6	4.3			
	Energy Efficiency Class			A++	A++	A+			
	Capacity	Rated	kW	3.2	4.0	5.0			
		Min - Max	kW	0.9 - 6.2	0.9 - 6.6	0.9 - 7.8			
	Total Input Rated		kW	0.760	1.020	1.300			
peratin	g Current (max)		A	10.0	11.6	13.9			
ndoor	Input	Rated	kW	0.039	0.04	0.047			
Init	Operating Current (r	Operating Current (max)		0.4					
	Dimensions	$H \times W \times D$	mm	280 - 838 - 229					
	Weight		kg	10					
	Air Volume	Cooling	m³/min	3.9 - 5.9 - 8.2 - 10.4 - 12.3	3.9 - 6.1 - 8.3 - 10.7 - 13.1	5.5 - 7.6 - 9.8 - 12.0 - 13.1			
	(SLo-Lo-Mid-Hi-SHi ^(*)	3) Heating	m³/min	3.9 - 6.3 - 9.0 - 12.0 - 13.2	3.9 - 6.9 - 10.2 - 13.5 - 14.7	5.5 - 8.4 - 11.4 - 14.4 - 15.5			
	Sound Level (SPL)	Cooling	dB(A)	19 - 27 - 36 - 41 - 46	19 - 27 - 36 - 42 - 47	28 - 34 - 40 - 45 - 48			
	(SLo-Lo-Mid-Hi-SHi (*)	3) Heating	dB(A)	19 - 31 - 39 - 46 - 49	19 - 33 - 42 - 49 - 52	28 - 36 - 45 - 51 - 54			
	Sound Level (PWL)	·	dB(A)		60				
	Dimensions	H × W × D	mm	550 - 800 - 285	714 - 800 - 285	714 - 800 - 285			
Jnit	Weight		kg	34	40	40			
	Air Volume	Cooling	m³/min	30.4	40.2	40.2			
		Heating	m³/min	30.4	40.2	40.2			
	Sound Level (SPL)	Cooling	dB(A)	46	49	51			
		Heating	dB(A)	49	52	54			
	Sound Level (PWL)	Cooling	dB(A)	60	61	64			
	Operating Current (n	nax)	A	9.6	11.2	13.5			
	Breaker Size		A	12	12	16			
xt.	Diameter	Liquid / Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52			
Piping	Max. Length	Out-In	m	20	30	30			
	Max. Height	Out-In	m	12	15	15			
	d Operating Range	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46			
Outdoor]		Heating	°C	-25 ~ +24	-25 ~ +24	-25 ~ +24			

 Ineating
 Image
 Image

MFZ-KW series			Inverter DC Far Mater PACH Convertence Attack
Indoor Unit	\bigotimes	Outdoor Unit	Remote Controller
Single IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	GOOD DESIGN AWARD 2014	UFZ-KW50/60VGHZ	
Econo Cool Pure AUTO Silver-ion VBlocki Hite VANE Como	ng Air Purifying SWING		Acco State Restart
Connection Connection Connection Control	on Self Failur Diagnosis Reca	e	upunum Upp508

Туре		_				Inverter H	leat Pump			
Indoor Un	it				MFZ-KW25VG	MFZ-KW35VG	MFZ-KW50VG	MFZ-KW60VG		
Outdoor l	Jnit				MUFZ-KW25VGHZ	MUFZ-KW35VGHZ	MUFZ-KW50VGHZ	MUFZ-KW60VGHZ		
Refrigerar	nt					R32	2 (*1)			
Power	Source				Outdoor power supply					
Supply	Outdoor (V/Phase/H	łz)				230 / Si	ngle / 50			
Cooling	Design Load			kW	2.5	3.5	5.0	6.1		
	Annual Electricity Consumption (*2)		kWh/a	103	151	255	316			
	SEER (*4)				8.5	8.1	6.8	6.7		
		Energy	Efficiency Class		A+++	A++	A++	A++		
	Capacity	Rated		kW	2.5	3.5	5.0	6.1		
		Min - M	ах	kW	0.7 - 3.6	0.7 - 4.3	1.0 - 5.8	1.0 - 6.5		
	Total Input	Rated		kW	0.57	0.90	1.36	1.73		
leating	Design Load			kW	3.5	3.6	4.5	4.8		
Average	Declared Capacity	at refere	ence design temperature	kW	3.5 (-10°C)	3.6 (-10°C)	4.5 (-10°C)	4.8 (-10°C)		
Season)		at bivale	nt temperature	kW	3.5 (-10°C)	3.6 (-10°C)	4.5 (-10°C)	4.8 (-10°C)		
		at opera	tion limit temperature	kW	2.6 (-25°C)	2.6 (-25°C)	4.0 (-25°C)	4.0 (-25°C)		
	Back Up Heating Ca	pacity		kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)		
	Annual Electricity Consumption (*2)		kWh/a	1188	1211	1500	1624			
	SCOP (* 4)				4.1	4.1	4.2	4.1		
	Energy Efficiency Class		Efficiency Class		A+	A+	A+	A+		
	Capacity	Rated		kW	3.4	4.3	6.0	6.5		
	Min - Max		ах	kW	0.2 - 5.1	0.2 - 6.0	1.2 - 8.4	1.2 - 9.0		
	Total Input	Rated		kW	0.83	1.21	1.60	1.88		
Operating	g Current (max)			А	9.9	10.3	15.3	15.4		
ndoor	Input (Cooling/Heat	ing)	Rated	kW	0.019/0.025	0.019/0.025	0.026/0.052	0.063/0.059		
Jnit	Operating Current (r	nax)		A	0.22	0.22	0.47	0.55		
	Dimensions		$H \times W \times D$	mm		600 - 7	50 - 215			
	Weight			kg	15	15	15	15		
	Air Volume		Cooling	m ³ /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	5.6 - 8.0 - 9.6 - 12.3 - 15.		
	(SLo-Lo-Mid-Hi-SHi ^{(*}	3)	Heating	m ³ /min	3.5 - 5.1 - 6.2 - 7.7 - 9.7	3.5 - 5.1 - 6.2 - 7.7 - 9.7	6.0 - 7.4 - 9.4 - 11.6 - 14.0	6.0 - 7.7 - 9.7 - 12.5 - 14.6		
	Sound Level (SPL)		Cooling	dB(A)	20 - 25 - 30 - 35 - 39	20 - 25 - 30 - 35 - 39	27 - 31 - 35 - 39 - 44	27 - 35 - 39 - 46 - 53		
	(SLo-Lo-Mid-Hi-SHi ^{(*}	3)	Heating	dB(A)	18 - 25 - 30 - 35 - 41	18 - 25 - 30 - 35 - 41	29 - 35 - 40 - 45 - 50	29 - 35 - 41 - 47 - 51		
	Sound Level (PWL)			dB(A)	49	50	56	65		
	Dimensions		$H \times W \times D$	mm	550 - 80	00 - 285	880 - 8	40 - 330		
Jnit	Weight			kg	35	35	54	54		
	Air Volume		Cooling	m³/min	32.7	32.7	43.8	48.8		
			Heating	m³/min	27.3	27.3	46.3	51.3		
	Sound Level (SPL)		Cooling	dB(A)	47	47	50	52		
			Heating	dB(A)	46	47	54	56		
	Sound Level (PWL)		Cooling	dB(A)	61	61	65	66		
	Operating Current (r	nax)		Α	9.6	10.0	14.8	14.8		
	Breaker Size			А	10	12	16	16		
xt.	Diameter		Liquid / Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 12.7		
Piping	Max. Length		Out-In	m	20	20	30	30		
	Max. Height		Out-In	m	12	12	15	15		
Guarantee	d Operating Range		Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46		
[Outdoor]			Heating	°C	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24		

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ZUBADAN SERIES

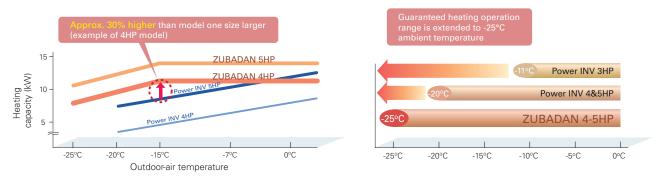
The ZUBADAN Series incorporates an original Flash Injection technology that improves the already high heating capacity of the system. This new member of the series line-up ensures comfortable heat pump-driven heating performance in cold regions.



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

Improved Heating Performance

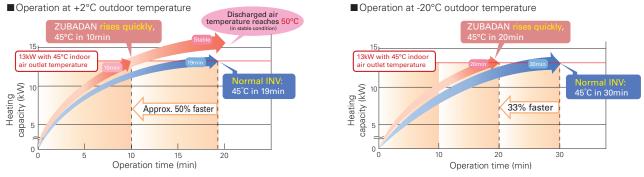
Mitsubishi Electric's unique "Flash Injection" circuit achieves remarkably high heating performance. This technology has resulted in an excellent heating capacity rating in outdoor temperatures as low as -15°C, and the guaranteed heating operation range of the heating mode has been extended to -25°C.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



Enhanced Comfort

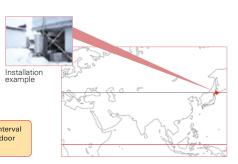
The Flash Injection circuit improves start-up and recover from the defrosting operation. A newly introduced defrost operation control also improves defrost frequency. These features enable the temperature to reach the set temperature more quickly, and contribute to maintaining it at the desired setting.

Quick Start-up



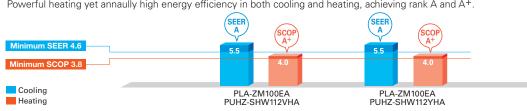
ZUBADAN Defrost Control and Faster Recovery from Defrost Operation Field Test Results: Office building in Asahikawa, Hokkaido, Japan

■ Operation data for 25 Jan. 2005 ■Operation data for 2 Dec. 2004 50 9 40°(30°(20°(10°0 Out 0°0 10°C 20°C 14.00 16:00 18:00 20:00 12.00 22.00 ZUBADAN Defrost Control maintained a maximum interval Reduced defrosting operation time temperatures of approximately -20°C and 0°C. from 4 to 3 minutes



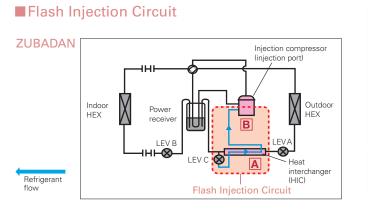
ErP Lot 10 Compliant with High Energy-efficiency Achieving SEER/SCOP Rank A and A+

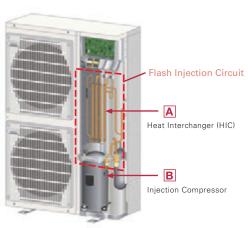




Powerful heating yet annaully high energy efficiency in both cooling and heating, achieving rank A and A+.

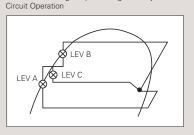
Mitsubishi Electric's Flash Injection Technology The Key to High Heating Performance at Low Outdoor Temperatures





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.

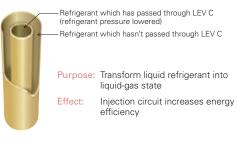
In traditional units, when the outdoor temperature is low, the volume of refrigerant circulating in the compressor decreases due to the drop in refrigerant pressure and the protection from overheating caused by high compression, thereby reducing heating capacity. The Flash Injection Circuit injects refrigerant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



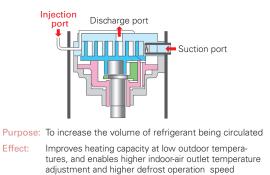
Mollier Chart Image Representing Flash Injection

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.



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.

	nit		_		Outdoor Unit	Remote Co	ontroller
R32) R410A	(0)				R410A	Enclosed in	25. *optional
Panel	With Signal	With 3D i-see	With Wireless	M100/125EA2	PUHZ-SHW112VHA(-BS)	PLP-6EALM2/ PLP-6EALME2	"optional
PLP-6EA	Receiver	Sensor	Remote Controller	Elevation	PUHZ-SHW112/140YHA(-BS)		
PLP-6EAL	~					Alter	
PLP-6EAE	•	1				Contraction of the local division of the loc	1.00
PLP-6EALE	1	~				· / 22.5 · · ·	4.000
PLP-6EAJ	✓	-		✓		and the second	148. 148.
PLP-6EAJE	1	~		1			
PLP-6EALM2	✓		~			*optional	*optional
	1	1	1			1	

Туре					Inverter Heat Pump				
ndoor Ur	it			PLA-Z	M100EA2	PLA-ZM125EA2			
Jutdoor I	Jnit			PUHZ-SHW112VHA	PUHZ-SHW112YHA	PUHZ-SHW140YHA			
Refrigera	nt				R410A*1				
Power	Source				Outdoor power supply				
Supply	Outdoor (V/Phase/Hz)				VHA: 230 / Single / 50, YHA: 400 / Three / 50				
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	2.857	2.857	5.000			
	EER			3.50	3.50	2.50			
		EEL Rank		_	-	_			
	Design Load		kW	10.0	10.0	_			
	Annual Electricity Consumption*2			633	633	-			
	SEER*4			5.5	5.5	-			
		Energy Efficiency Class		A	A	-			
leating	Capacity	Rated	kW	11.2	11.2	14.0			
Average		Min - Max	kW	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0			
Season)	Total Input	Rated	kW	2.667	2.667	4.000			
	COP			4.20	4.20	3.50			
		EEL Rank		-	-	-			
	Design Load		kW	12.7	12.7	-			
	Declared Capacity	at reference design temperature	kW	11.2 (-10°C)	11.2 (-10°C)	_			
		at bivalent temperature	kW	11.2 (-7°C)	11.2 (-7°C)	_			
		at operation limit temperature	kW	9.3 (-25°C)	9.3 (-25°C)	_			
	Back Up Heating Capacity		kW	1.5	1.5	_			
	Annual Electricity Co		kWh/a	4420	4420	_			
	SCOP*4			4.0	4.0	-			
		Energy Efficiency Class		A+	A+	-			
Operatin	g Current (max)		A	35.5	13.5	13.5			
ndoor	Input [Cooling/Heating] Rated	kW	0.07 / 0.07	0.07 / 0.07	0.08 / 0.08			
Jnit	Operating Current (r		A	0.47	0.47 0.52				
	Dimensions <panel></panel>	• H×W×D	mm		298-840-840 <40-950-950>				
	Weight <panel></panel>		kg	26 <5>	26 <5>	26 <5>			
	Air Volume [Lo-Mi2-N	/li1-Hi]	m ³ /min	19 - 22 - 25 - 28	19 - 22 - 25 - 28	21 - 24 - 26 - 29			
	Sound Level (SPL) [L		dB(A)	31 - 34 - 37 - 40	31 - 34 - 37 - 40	33 - 36 - 39 - 41			
	Sound Level (PWL)	-	dB(A)	61	61	62			
Outdoor	Dimensions	H × W × D	mm	-	1350 - 950 - 330 (+30)	-			
Jnit	Weight	1	kg	120	134	134			
	Air Volume	Cooling	m ³ /min	100	100	100			
		Heating	m³/min	100	100	100			
	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 (r		A	35	13	13			
	Breaker Size	-	A	40	16	16			
Ext.	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88			
Piping	Max. Length	Out-In	m	75	75	75			
	Max. Height	Out-In	m	30	30	30			
Guarante	ed Operating Range	Cooling*3	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46			
[Outdoor]		Heating	°C	-25 ~ +21	-25 ~ +21	-25 ~ +21			
		I roading		20121	20121	20 121			

*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 CO2, 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. *4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

	nit	1			Outdoor Unit	Remote Co	ontroller
Panel	01		PLA-M1	100/125EA2	R410A	Enclosed in PLP-6FALM2/	2500 *optional
Panel	With Signal Receiver	With 3D i-see Sensor	With Wireless Remote Controller	With Auto Elevation	PUHZ-SHW112VHA(-BS) PUHZ-SHW112/140YHA(-BS)	PLP-6EALME2	
PLP-6EA							
PLP-6EAL	√					And Address of the	A.000
PLP-6EAE		√				THE COMPANY OF	1. 18
PLP-6EALE	✓	~				all subscription of the	22
PLP-6EAJ	√			 ✓ 		Carlos in	-147148.
PLP-6EAJE	√	~		 ✓ 		*optional	*optional
PLP-6EALM2	√		✓			optional	optional
PLP-6EALME2	1	✓	1	1 1	1 I		

Туре					Inverter Heat Pump	
ndoor Un	it			PLA-N	/100EA2	PLA-M125EA2
Dutdoor L	Jnit			PUHZ-SHW112VHA	PUHZ-SHW112YHA	PUHZ-SHW140YHA
Refrigerar	nt				R410A*1	
Power	Source				Outdoor power supply	
Supply	Outdoor (V/Phase/H	z)			VHA: 230 / Single / 50, YHA: 400 / Three / 50	
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	2.940	2.940	5.000
	EER			3.40	3.40	2.50
		EEL Rank		-	-	-
	Design Load kW			10.0	10.0	-
	Annual Electricity Consumption*2 kWh/			661	661	-
	SEER*4			5.3	5.3	_
		Energy Efficiency Class		A	A	_
	Capacity	Rated	kW	11.2	11.2	14.0
Average		Min - Max	kW	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0
Season)	Total Input	Rated	kW	2.793	2.793	4.000
	COP			4.01	4.01	3.50
		EEL Rank		_	-	_
	Design Load kV		kW	12.7	12.7	_
	Declared Capacity	at reference design temperature	kW	11.2 (-10°C)	11.2 (-10°C)	_
		at bivalent temperature	kW	11.2 (-7°C)	11.2 (-7°C)	_
		at operation limit temperature	kW	9.3 (-25°C)	9.3 (-25°C)	_
	Back Up Heating Capacity kW		kW	1.5	1.5	_
	Annual Electricity Consumption*2 kWh/a			4445	4445	-
	SCOP*4			4.0	4.0	_
	Energy Efficiency Class			Α+	A+	_
Operating	g Current (max)		A	35.5	13.5	13.7
ndoor	Input [Cooling/Heating]	Rated	kW	0.07 / 0.07	0.07 / 0.07	0.08 / 0.08
Jnit	Operating Current (n		Α	0.47	0.47	0.52
	Dimensions <panel></panel>		mm		298-840-840 <40-950-950>	
	Weight <panel></panel>	1	kg	26 <5>	26 <5>	26 <5>
	Air Volume [Lo-Mi2-N	(i1-Hi]	m³/min	19 - 22 - 25 - 28	19 - 22 - 25 - 28	21 - 24 - 26 - 29
	Sound Level (SPL)		dB(A)	31 - 34 - 37 - 40	31 - 34 - 37 - 40	33 - 36 - 39 - 41
	Sound Level (PWL)		dB(A)	61	61	62
Outdoor	Dimensions	H × W × D	mm		1350 - 950 - 330 (+30)	
Unit	Weight	1	kg	120	134	134
	Air Volume	Cooling	m ³ /min	100	100	100
		Heating	m³/min	100	100	100
	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 (n	•	A	35	13	13
	Breaker Size		A	40	16	16
Ext.	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
Piping	Max. Length	Out-In	m	75	75	75
						30
	Max. Height	Out-In	m	30	30	30
Guarantee	Max. Height d Operating Range	Out-In Cooling* ³	m ℃		30 -15 ~ +46	

*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 CO2, 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.
*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

PEDZ-SHW JA series	veter Sire Ware Constant and Co	
Indoor Unit	Outdoor Unit	Remote Controller
PEAD-M100/125JA(L)2	PUHZ-SHW112/HA(-BS) PUHZ-SHW112/140YHA(-BS)	Image: solution of the solution
Demand Control Guina	Low Temp Cooling Silent S Ampere Limit Back-up Cytoral	iroup ontroi Generation Generation Cytorut
Wiring Drain Pump Bare Connection Failure Recal		

Туре				Inverter Heat Pump				
Indoor Unit				PEAD-M	100JA(L)2	PEAD-M125JA(L)2		
Outdoor Unit				PUHZ-SHW112VHA	PUHZ-SHW112YHA	PUHZ-SHW140YHA		
Refrigerant					R410A*1			
Power	Source			Outdoor power supply				
Supply				VHA: 230 / Single / 50, YHA: 400 / Three / 50				
Cooling	Capacity	Rated	kW	10.0 10.0		12.1		
		Min - Max	kW	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0		
	Total Input	Rated	kW	2.904	2.904	4.172		
	EER	1		3.44	3.44	2.90		
		EEL Rank		_	_	-		
	Design Load		kW	10.0	10.0	12.1		
	Annual Electricity Co	onsumption*2	kWh/a	686	686	-		
	SEER*4			5.1	5.1	_		
		Energy Efficiency Class		A	A	_		
leating	Capacity	Rated	kW	11.2	11.2	14.0		
Average		Min - Max	kW	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0		
Season)	Total Input	Rated	kW	3.103	3.103	3.879		
	COP			3.61	3.61	3.61		
		EEL Rank		-	-	-		
	Design Load		kW	12.7	12.7			
	Declared Capacity	at reference design temperature	kW	11.2 (-10°C)	11.2 (-10°C)	_		
	Doolaroa oapaoley	at bivalent temperature	kW	11.2 (-7°C)	11.2 (-7°C)	_		
		at operation limit temperature	kW	9.4 (-25°C)	9.4 (-25°C)	_		
			kW	1.5	1.5			
			kWh/a	4601	4601	_		
	SCOP*4		K v vi i/a	3.8	3.8			
	0001	Energy Efficiency Class		A	A			
Doeratio	g Current (max)	Energy Enercity orass	A	37.7	15.7	15.8		
ndoor	Input [Cooling / Heati	ngl Bated	kW	0.14	0.14	0.20		
Jnit	Operating Current (n	-	A	2.25	2.25	2.34		
	Dimensions H × W × D		mm	250 - 1400 - 732	250 - 1400 - 732	250 - 1400 - 732		
	Weight	11.4.1.4.5	kg	36	36	37		
	Air Volume [Lo-Mid-Hi]		rs m³/min	23.0-28.0-32.0	23.0 - 28.0 - 32.0	28.0 - 34.0 - 37.0		
			Pa	40 - <50> - <70> - <100> - <150>	40 - <50> - <70> - <100> - <150>	<40> - 50 - <70> - <100> - <150>		
	Sound Level (SPL)		dB(A)	31 - 36 - 39	31 - 36 - 39	35 - 39 - 41		
			dB(A)	62	62	66		
Outdoor	Dimensions	H × W × D	mm	1350 - 950 - 330 (+30)	1350 - 950 - 330 (+30)	1350 - 950 - 330 (+30)		
Jnit	Weight		kg	120	134	134		
	Air Volume	Cooling	m ³ /min	100	100	100		
		Heating	m ³ /min	100	100	100		
	Sound Level (SPL)	Cooling	dB(A)	51	51	51		
	Gound Level (GFL)	Heating	dB(A)	52	52	52		
	Sound Level (PWL)	Cooling	dB(A)	69	69	69		
	Operating Current (max) A		35	13	13			
			A	40	13	13		
xt.	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88		
=xτ. Piping	Max. Length	Out-In		9.52 / 15.88	9.52 / 15.88	9.52 / 15.88		
			m	30	30	30		
	Max. Height	Out-In	m °C					
Guarantee [Outdoor]	ed Operating Range	Cooling*3		-15 ~ +46	-15 ~ +46	-15 ~ +46		
.0 0 0 0 0 0		Heating	°C	-25 ~ +21	-25 ~ +21	-25 ~ +21		

 Heating
 C
 -20 ~ +21
 -25 ~ +21
 -25 ~ +21
 -25 ~ +21

 *1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming ptential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere.
 This appliance contains a refrigerant liud with a GWP equal to 1975. This means that if 1kg of this refrigerant liud would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1kg of CO₂, 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 in protection global warming the temperature is lower than -5°C.

 *4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.
 *5 The factory setting of ESP is shown without < >.

PKZ-SHW SERIES	Vector Sire Water	PAM Power Receiver Cover Page
Indoor Unit	Outdoor Unit	Remote Controller
R32 R410A	R410A	*KAL only *optional
PKA-M100KA(L)2	PUHZ-SHW112VHA(-BS) PUHZ-SHW112YHA(-BS)	*optional
Demand Control Volume Pure White AUTO VANE Image: Control Volume Image: Control Volume Ima		ation K-up Optime Optime Control Optime Optime Control Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Optime Opt

Туре				Inverter Heat Pump			
Indoor Unit				PKA-M100KA(L)2			
Outdoor	Jnit			PUHZ-SHW112VHA	PUHZ-SHW112YHA		
Refrigera	nt			R410	A*1		
Power	Source			Outdoor power supply			
Supply	Outdoor (V/Phase/H	z)		VHA: 230 / Single / 50,	YHA: 400 / Three / 50		
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 (2.904)	2.924 (2.904)		
	Design Load		kW	3.42	3.42		
	Annual Electricity Co	onsumption*2	kWh/a	673	673		
	SEER*4	· ·		5.2	5.2		
		Energy Efficiency Class		A	A		
leating	Capacity	Rated	kW	11.2	11.2		
Average		Min - Max	kW	4.5 - 14.0	4.5 - 14.0		
Season)	Total Input	Rated	kW	3.103	3.103		
	Design Load		kW	12.7	12.7		
	Declared Capacity	at reference design temperature	kW	11.2 (-10°C)	11.2 (-10°C)		
		at bivalent temperature	kW	11.2 (-7°C)	11.2 (-7°C)		
		at operation limit temperature	kW	9.4 (-25°C)	9.4 (-25°C)		
			kW	1.5	1.5		
			kWh/a	4664	4664		
	SCOP*4		i contra da	3.8	3.8		
		Energy Efficiency Class		A	A		
Operatin	ting Current (max)		35.6	13.6			
ndoor	Input	Rated	kW	0.08 / 0.07	0.08 / 0.07		
Jnit	Operating Current (n		A	0.57	0.57		
	Dimensions <panel></panel>		mm	365 - 1170 - 295			
	Weight <panel></panel>		kg	21	21		
	Air Volume [Lo-Mid-Hi]		m ³ /min	20 - 23 - 26	20 - 23 - 26		
	Sound Level (SPL) [Lo-Mid-Hi]		dB(A)	41 - 45 - 49	41 - 45 - 49		
			dB(A)	65	65		
Outdoor	Dimensions	H × W × D	mm	1350 - 950 - 330 (+30)			
Unit	Weight		kg	120 - 330 (+30)			
	Air Volume	Cooling	rs m³/min	100	100		
		Heating	m ³ /min	100	100		
	Sound Level (SPL)	Cooling	dB(A)	51	51		
	Country Lover (OF L)	Heating	dB(A)	52	52		
	Sound Level (PWL)	Cooling	dB(A)	69	69		
	Operating Current (n	-	A	35	13		
	Breaker Size	inan,	A	40	13		
Evt	Diameter	Liquid / Gas	mm	9.52 / 15.88	9.52 / 15.88		
	Max. Length	Out-In	m	9.52 / 15.88	9.52 / 15.88		
		Out-III	1 m				
Piping		Out In	- m	20	30		
Piping	Max. Height ed Operating Range	Out-In Cooling* ³	m ℃	30 -15 ~ +46	30 -15 ~ +46		

*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 CO2, over a period of 100 years. Never try to interfere with the refrigerant toric 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.
*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

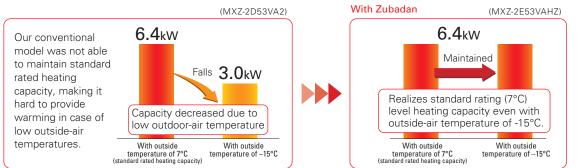
MXZ-VAHZ SERIES

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°C.

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



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

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

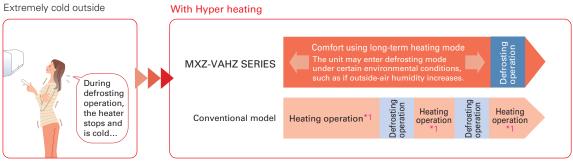
Freeze-prevention heater standard equipment

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



Continuous heating for long periods

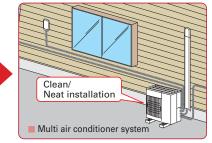
Wasteful defrosting operation suppressed to enable more comfortable long-term continuous heating.



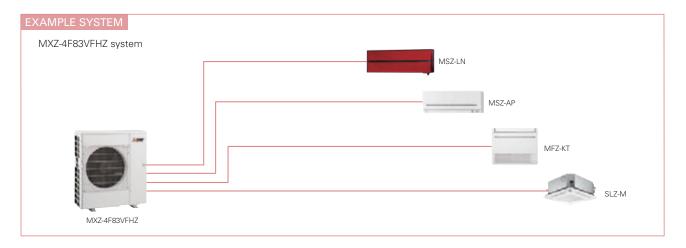
*1: Conventional model performs continuous heating approximately 30min up to a maximum of 90min.

One outdoor unit supports multiple indoor units.

With MXZ-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. Single air conditioner



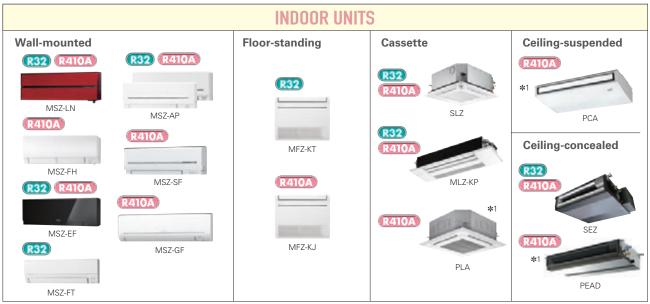
*Please note that cooling and heating modes cannot be run simultaneously in different rooms.



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.





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

Conterner Do Rawy DC Far Max
-

Туре					Inverter H	eat Pump		
Indoor Unit			Please refer to *4 *5					
Outdoor Unit			MXZ-2F53VFHZ2	MXZ-4F83VFHZ2	MXZ-2E53VAHZ	MXZ-4E83VAHZ		
Refrigerar	nt			R3	2*6	R41	0A*1	
Power	Source			Outdoor power supply				
Supply	Outdoor (V/Phase/Hz)			220 - 230 - 240V / Single / 50				
Cooling	Capacity	Rated	kW	5.3	8.3	5.3	8.3	
		Min - Max	kW	1.1 - 6.0	3.5 - 9.2	1.1 - 6.0	3.5 - 9.2	
	Total Input	Rated	kW	1.29	1.90	1.29	2.25	
	Design Load	•	kW	5.3	8.3	5.3	8.3	
	Annual Electricity Co	onsumption*2	kWh/a	274	398	282	447	
	SEER*4,*7			6.8	7.3	6.5	6.5	
		Energy Efficiency Class*4		A++	A++	A++	A++	
leating	Capacity	Rated (7°C)	kW	6.4	9.0	6.4	9.0	
Average		Rated (7°C)	kW	6.4	9.0	6.4	9.0	
Season)		Rated (-15°C)	kW	6.4	9.0	6.4	9.0	
		Min - Max	kW	1.0 - 7.0	3.5 - 11.6	1.0 - 7.0	3.5 - 11.6	
	Total Input	Rated	kW	1.36	1.70	1.36	1.90	
	Design Load		kW	6.4	10.1	6.4	10.1	
	Declared Capacity	at reference design temperature	kW	6.9	10.6	6.4	9.0	
		at bivalent temperature	kW	7.4	11.5	6.4	9.0	
		at operation limit temperature	kW	4.1	5.7	2.4	2.5	
	Back Up Heating Capacity		kW	0.0	0.0	0.0	1.1	
	Annual Electricity Co	Annual Electricity Consumption*2		2172	3286	2165	3446	
	SCOP*7			4.1	4.3	4.1	4.1	
		Energy Efficiency Class*4		A+	A+	A+	A+	
Max. Ope	rating Current (Indoo	or+Outdoor)	Α	15.6	28.0	15.6	28.0	
Outdoor	Dimensions	$H \times W \times D$	mm	796 × 950 × 330	1048 × 950 × 330	796 × 950 × 330	1048 × 950 × 330	
Jnit	Weight		kg	61	86	61	87	
	Air Volume	Cooling	m³/min	43	63	47.0	63.0	
		Heating	m³/min	41	77	47.0	77.0	
	Sound Level (SPL)	Cooling	dB(A)	45	55	45	53	
		Heating	dB(A)	47	57	47	57	
	Sound Level (PWL)	Cooling	dB(A)	55	66	55	66	
	Breaker Size		Α	16	30	16	30	
xt.	Diameter	Liquid / Gas	mm	6.35 × 2 / 9.52 × 2	6.35×4/12.7×1+9.52×3	6.35 × 2 / 9.52 × 2	6.35×4/12.7×1+9.52×3	
Piping	Total Piping Length (max)		m	30	70	30	70	
	Each Indoor Unit Pip	ing Length (max)	m	20	25	20	25	
	Max. Height		m	15	15	15 (10) *3	15 (10) *3	
	Chargeless Length		m	30	70	20	25	
Guarantee	d Operating Range	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	
[Outdoor]		Heating	°C	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	

 [Outdoor]
 Heating
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To ensure full capacity in cold and snowy regions...

3 Important Points to Remember When Installing the Outdoor Unit



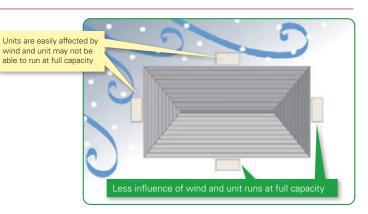
* RAC/PAC (inc. Air to Water) /MXZ

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



Installation Location

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

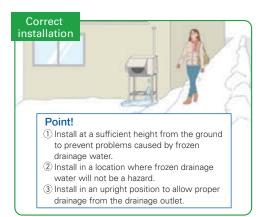




Measures for Drainage of Water

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.



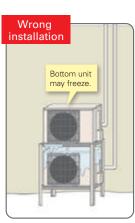




Case 2: Multiple units are installed

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





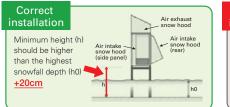
3 Measures for Snow

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.

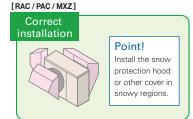


Use a stand to add sufficient height to protect the unit heat exchanger from snow and prevent icicles forming during defrost operation.





Install snow protection hood as necessary



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

Snowy region Countermeasures for snow		Cold region		
		Countermeasures for freezing	Remarks	
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.	_	 Prevents heat exchanger from being covered in snow. 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	[RAC/PAC/MXZ]
Arrangement for	Separately sold parts are available for some models.
snow protection hood	Please consult Mitsubishi Electric or one of its dealers/resellers at the time of purchase for details.