## MXZ-VFHZ MXZ-VAI



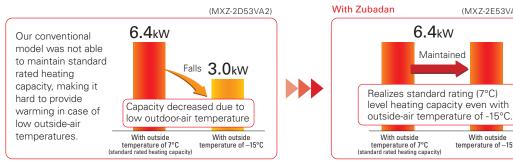
(MXZ-2E53VAHZ)

With outside temperature of -15°C

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.

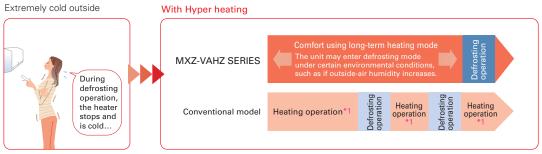
#### Freeze-prevention heater standard equipment

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.



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

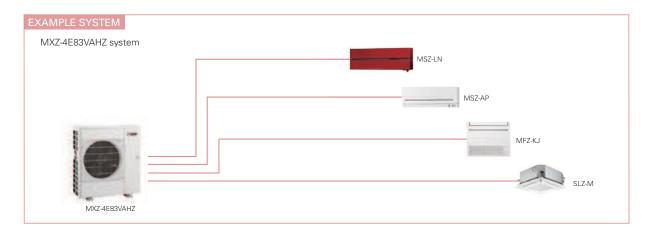
### One outdoor unit supports multiple indoor units.

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.







#### 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.

#### MXZ-VFHZ SERIES











#### Outdoor Unit





MXZ-2F53VFHZ





MXZ-4F83VFHZ

Туре				Inverter Heat Pump		
Indoor Unit					fer to*4 *5	
Outdoor Unit				MXZ-2F53VFHZ	MXZ-4F83VFHZ	
Refrigerant				R3:	2**1	
Power Supply	Source			Outdoor power supply		
	Outdoor (V/Phase/Hz)			220 - 230 - 240V / Single / 50		
Cooling	Capacity Rated		kW	5.3	8.3	
		Min - Max	kW	1.1 - 6.0	3.5 - 9.2	
	Total Input	Rated	kW	1.29	1.90	
	Design Load		kW	5.3	8.3	
	Annual Electricity Consumption*2		kWh/a	274	398	
	SEER*4			6.8	7.3	
		Energy Efficiency Class*4		A++	A++	
	Capacity	Rated (7°C)	kW	6.4	9.0	
verage		Rated (-7°C)	kW	6.4	9.0	
eason)		Rated (-15°C)	kW	6.4	9.0	
		Min - Max	kW	1.0 - 7.0	3.5 - 11.6	
	Total Input	Rated	kW	1.36	1.70	
	Design Load		kW	6.4	8.3	
	Declared Capacity	at reference design temperature	kW	6.9	10.6	
		at bivalent temperature	kW	7.4	11.5	
		at operation limit temperature	kW	4.1	5.7	
	Back Up Heating Capacity		kW	0.0	1.1	
	Annual Electricity Consumption*2		kWh/a	2172	3286	
	SCOP			4.1	4.3	
		Energy Efficiency Class*4		A <sup>+</sup>	A <sup>+</sup>	
ах. Оре	erating Current (Indoo	or+Outdoor)	Α	15.6	28.0	
	Dimensions	$H \times W \times D$	mm	796 × 950 × 330	1048 × 950 × 330	
nit	Weight		kg	61	86	
	Air Volume	Cooling	m³/min	63.0	63.0	
		Heating	m³/min	47.0	77.0	
	Sound Level (SPL)	Cooling	dB(A)	45	55	
		Heating	dB(A)	47	57	
	Sound Level (PWL)	Cooling	dB(A)	55	66	
	Breaker Size		Α	16	30	
	Diameter	Liquid / Gas	mm	6.35 × 2 / 9.52 × 2	6.35× 4 / 12.7 × 1+9.52× 3	
	Total Piping Length (max)		m	30	70	
	Each Indoor Unit Piping Length (max)		m	20	25	
	Max. Height		m	15 (10) * <sup>3</sup>	15 (10) * <sup>3</sup>	
	Chargeless Length		m	30	70	
Guaranteed Operating Range [Outdoor]		°C	-10 ~ +46	-10 ~ +46		
			°C	-25 ~ +24	-25 ~ +24	

<sup>\*1</sup> 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 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 If the outdoor unit is installed higher than the indoor unit, max. height is reduced to 10m.

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

MXZ-EES/SVAHZ MSZ-EF18VE + MSZ-EF3VE

MXZ-4E83VAHZ MSZ-EF18VE + MSZ-EF3VE + MSZ-EF25VE

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

#### MXZ-VAHZ SERIES















MXZ-2E53VAHZ

(R410A)



MXZ-4E83VAHZ

Туре				Inverter H	eat Pump	
Indoor Unit				Please refer to ****5		
Outdoor Unit				MXZ-2E53VAHZ	MXZ-4E83VAHZ	
Refrigerant				R41	0A*1	
ower	Source			Outdoor power supply		
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++	A++	
	Capacity	Rated (7°C)	kW	6.4	9.0	
verage		Rated (-7°C)	kW	6.4	9.0	
eason)		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 Co	onsumption*2	kWh/a	2165	3446	
	SCOP			4.1	4.1	
		Energy Efficiency Class*4		A+	A <sup>+</sup>	
ах. Оре	erating Current (Indoo	r+Outdoor)	Α	15.6	28.0	
	Dimensions	$H \times W \times D$	mm	796 × 950 × 330	1048 × 950 × 330	
nit	Weight		kg	61	87	
	Air Volume	Cooling	m³/min	47.0	63.0	
		Heating	m³/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		Α	16	30	
rt.	Diameter	Liquid / Gas	mm	6.35 × 2 / 9.52 × 2	6.35× 4 / 12.7 × 1+9.52× 3	
Piping	Total Piping Length (max)		m	30	70	
	Each Indoor Unit Piping Length (max)		m	20	25	
	Max. Height		m	15 (10) *3	15 (10) * <sup>3</sup>	
	Chargeless Length		m	20	25	
Guaranteed Operating Range Cooling		Cooling	°C	-10 ~ +46	-10 ~ +46	
		Heating	°C	-25 ~ +24	-25 ~ +24	

<sup>\*\*</sup>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 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 If the outdoor unit is installed higher than the indoor unit, max. height is reduced to 10m.

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

MXZ-2E53VAHZ\_MSZ-EF18VE + MSZ-EF3VE

MXZ-4E83VAHZ\_MSZ-EF18VE + MSZ-EF3VE + 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

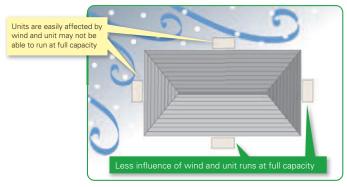
Wind and snow can significantly reduce capacity.

Be sure to check the 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.

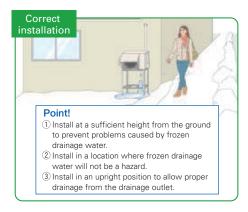


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#### Measures for Drainage of Water

#### 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.

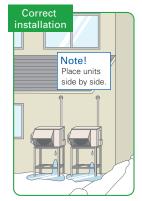


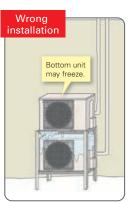




#### Case 2: Multiple units are installed

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



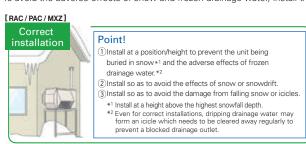




#### Measures for Snow

#### Unit is installed on the ground

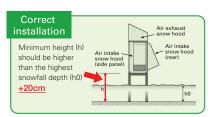
To avoid the adverse effects of snow and frozen drainage water, install the unit on a stand to ensure a sufficient height from the ground.







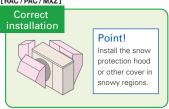
Use a stand to add sufficient height to protect the unit heat exchanger from snow and prevent icicles forming during defrost operation.





#### Install snow protection hood as necessary

[RAC/PAC/MXZ]



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

	Snowy region	Cold region				
	Countermeasures for snow	Countermeasures for freezing	Remarks			
Drain socket, Centralised drain pan			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.			

### 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] 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.