

M

SERIES



SELECTION

Choose the model that best matches room conditions.

STEP 1		SELECT SERIES	
<p>A multiple series line-up to choose from, each with various outstanding features. In addition to inverter-equipped models, constant-speed, floor-standing and cassette models can be selected. Choose the best series to match usage needs.</p>			
Wall-mounted Units			
<p>MSZ-F SERIES</p>  <p>GOOD DESIGN</p> <p>DC Inverter, Super energy-saving, SEER A+++, SCOP A+++, Ultra-quiet, Cooling Heating, MXZ connection</p>	<p>MSZ-E SERIES</p>  <p>GOOD DESIGN</p> <p>DC Inverter, SEER A+++, SCOP A++, Cooling Heating, MXZ connection</p>	<p>MSZ-S SERIES</p>  <p>GOOD DESIGN</p> <p>DC Inverter, SEER A++, SCOP A+, Cooling Heating, MXZ connection</p>	
<p>MSZ-G SERIES</p>  <p>DC Inverter, SEER A++, SCOP A+, Cooling Heating, MXZ connection</p>	<p>MSZ-D SERIES</p>  <p>DC Inverter, SEER A+, SCOP A+, Cooling Heating, MXZ connection</p>	<p>MSZ-H SERIES MSZ-HJ60/71</p>  <p>MSZ-HJ25/35/50</p> <p>DC Inverter, SEER A, SCOP A, Cooling Heating, MXZ connection</p>	
Floor-standing		Cassette Units	
<p>MFZ SERIES</p>  <p>GOOD DESIGN</p> <p>DC Inverter, Cooling Heating, MXZ connection, SEER A+++, SCOP A+</p>		<p>MLZ SERIES</p>  <p>DC Inverter, Cooling Heating, MXZ connection * MXZ connection only</p>	

 Inverter
  Super energy-saving
 SEER A SCOP A Energy Rank
  Ultra-quiet
 Ultra-quiet operation
  Cooling Heating
 Cooling and heating operation
 Compatible for connection to MXZ Series system * To confirm compatibility with the MXZ Series multi-type system, refer to the MXZ Series page.

STEP 2		SELECT OUTDOOR UNIT	
<p>Some outdoor units in the line-up have heaters for use in cold regions. Units with an "H" in the model name are equipped with heaters.</p>			
Heater Installed			
 <p>MUZ-FH25/35VEHZ MUZ-EF25/35VEH MUZ-SF25/35/42VEH MUFZ-KJ25/35VEHZ</p>	 <p>MUZ-FH50VEHZ MUZ-SF50VEH MUFZ-KJ50VEHZ</p>		
<p>Selecting a Heater-equipped Model</p> <p>In regions with the following conditions, there is a possibility that water resulting from condensation on the outdoor unit when operating in the heating mode will freeze and not drain from the base.</p> <ol style="list-style-type: none"> 1) Cold outdoor temperatures (temperature does not rise above 0°C all day) 2) Areas where dew forms easily (in the mountains, valleys (surrounded by mountains), near a forest, near unfrozen lakes, ponds, rivers or hot springs), or areas with snowfall <p>To prevent water from freezing in the base, it is recommended that a unit with a built-in heater be purchased. Please ask your dealer representative about the best model for you.</p>			



KIRIGAMINE

MSZ-F SERIES

MSZ-FH25/35/50VE

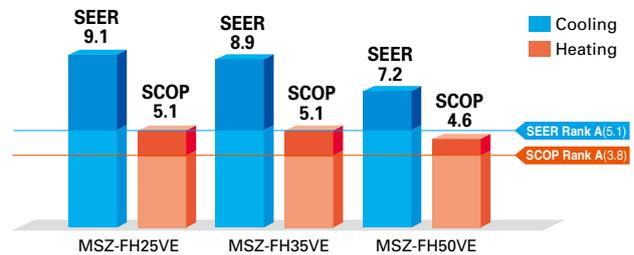


The F Series is designed for optimum cooling/heating performance as well as operational comfort. Quiet, energy-saving operation is supported by some of Mitsubishi Electric's latest technologies. Advanced functions such as "3D i-see Sensor" temperature control and the Plasma Quad air purification system raise room comfort levels to new heights.

High Energy Efficiency



Power consumption has been reduced for the cooling and heating modes thanks to the incorporation of our newest inverter technologies. The high energy efficiency of the Size 25 units has obtained a rating of more than 5.0 for both seasonal coefficient of performance (SCOP) and seasonal energy efficiency rating (SEER).

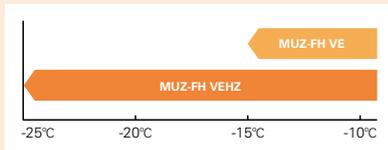


Hyper Heating

The Hyper Heating feature is incorporated, realizing powerful heating even in the harsh cold. Even users in cold regions can comfortably rely on the MSZ-FH Series for all their heating needs.

Operation Guaranteed at Outside Temperature of -25°C

MUZ-FH VEHZ can be operated at outside temperatures as low as -25°C, so there are no concerns about use even in very cold climates.



Rated Capacity Demonstrated at Outside Temperatures of -15°C

With rated capacity ensured at outside temperature as low as -15°C, the FH Series can be relied upon to properly warm living spaces even in severe cold snaps.



Freeze-prevention Heater Equipped as Standard (VEHZ)

The Freeze-prevention heater prevents lowered capacity due to the drain freezing and also inhibits operation shutdowns.



Selecting a Heater-equipped Model

In regions with the following conditions, there is a possibility that water resulting from condensation on the outdoor unit when operating in the heating mode will freeze and not drain from the base.

- 1) Cold outdoor temperatures (temperature does not rise above 0°C all day)
- 2) Areas where dew forms easily (in the mountains, valleys(surrounded by mountains), near a forest, near unfrozen lakes, ponds, rivers or hot springs), or areas with snowfall

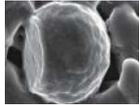
To prevent water from freezing in the base, it is recommended that a unit with a built-in heater be purchased. Please ask your dealer representative about the best model for you.

Air, like water, is something we use everyday unconsciously. Yet, clean, fresh air is a vital part of creating a healthy space for humans. Achieving this healthy air is Plasma Quad, a plasma-based filter system that effectively removes four kinds of air pollutants; namely, bacteria, viruses, allergens and dust, which the air contains countless particles of.

Bacteria

Test results have confirmed that Plasma Quad neutralizes 99% of bacteria in 115 minutes in a 25m³ test space.

Plasma Quad off



Plasma Quad on

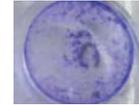


(Test No.) KRCS-Bio.Test Report No.23_0371

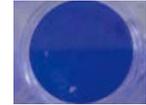
Viruses

Test results have confirmed that Plasma Quad neutralizes 99% of virus particles in 65 minutes in a 25m³ test space.

Without Plasma Quad



With Plasma Quad



* Hepatic cells turn transparent when affected by a virus.

(Test No.) vrc.center, SMC No.23-002

Effective deodorizing using the filters

Allergens

In a test, air containing cat fur and pollen was passed through the air cleaning device at the low airflow setting. Before and after measurements confirm that Plasma Quad neutralizes 94% of cat fur and 98% of pollen.

(Test No.) ITEA No.12M-RPTFEB022

Dust

In a test, air containing dust and ticks was passed through the air cleaning device at the low airflow setting. Before and after measurements confirm that Plasma Quad removes 88.6% of dust and ticks.

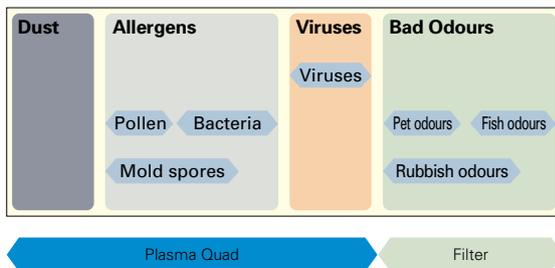
(Test No.) ITEA No.12M-RPTFEB022

(Image)



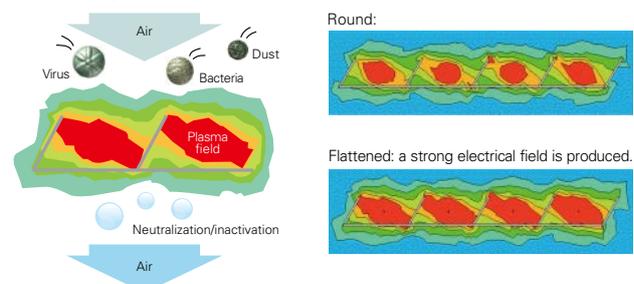
[Effective Range]

Macro ← Particulate size → Nano



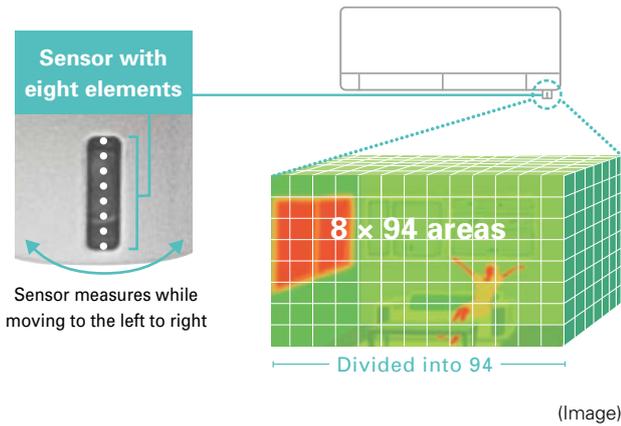
Principle of Plasma Quad

Plasma Quad attacks bacteria and viruses from inside the unit using a strong curtain-like electrical field and discharge of electric current across the whole inlet-air opening of the unit. Tungsten discharge electrodes are used as they provide both discharge capacity and strength. In addition, through flattening the standard, round form of the field to a ribbon-like shape, a strong electrical field is produced.



3D i-see Sensor

The FH Series is equipped with 3D i-see Sensor, an infrared-ray sensor that measures the temperature at distant positions. While moving to the left and right, eight vertically arranged sensor elements analyze the room temperature in three dimensions. This detailed analysis makes it possible to judge where people are in the room, thus allowing creation of features such as "Indirect airflow," to avoid airflow hitting people directly, and "direct airflow" to deliver airflow to where people are.



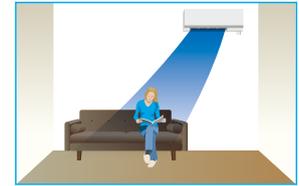
Indirect Airflow

The indirect airflow setting can be used when the flow of air feels too strong or direct. For example, it can be used during cooling to avert airflow and prevent body temperature from becoming excessively cooled.



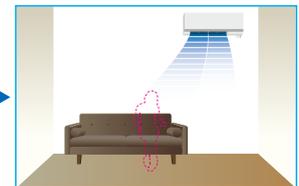
Direct Airflow

This setting can be used to directly target airflow at people such as for immediate comfort when coming indoors on a hot (cold) day.



Absence Detection

The sensors detect whether there are people in the room. When no-one is in the room, the unit automatically switches to energy-saving mode.

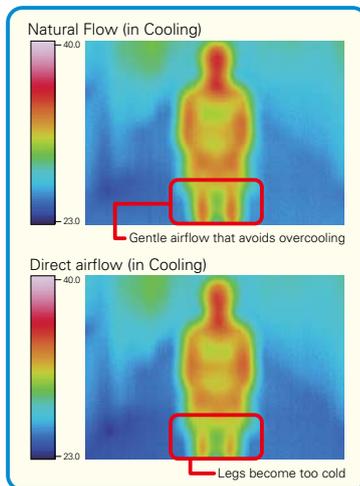


The "3D i-see Sensor" detects people's absence and the power consumption is automatically reduced approximately 10% after 10 minutes and 20% after 60 minutes.

Natural Flow

24-Hour Timer

To create "healthy" airflow, the most important aspect is that the flow of air feels natural. Mitsubishi Electric's solution to this is Natural Flow, only possible thanks to our technology that freely and flexibly controls airflow.



Double Vane



Mitsubishi Electric's double vane separates the airflow in the left and right directions to deliver airflow not only across a wide area of the room, but also simultaneously to two people in different locations.

Through realizing airflow that imitates a natural breeze, we have avoided the unpleasant feeling of being hit directly by constant, unnatural airflow.

Base data for Natural Flow



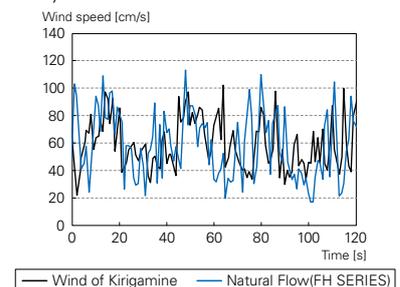
Kirigamine Highland



measuring actual data of natural wind

Kirigamine Highland is one of the most famous sightseeing spots in Japan, and is visited by a large number of people for its pleasant and comfortable environment. At Mitsubishi Electric, we have attempted to recreate this Kirigamine Highland comfort. As part of development, seeking to create a natural airflow, we measured actual data on the refreshing breezes of Kirigamine Highland. Through imitating the natural waveforms of this data, we have been able to recreate almost-imperceptible currents of gently comforting airflow.

Analysis of natural wind



MSZ-F SERIES



Indoor Unit



MSZ-FH25/35/50VE2



Outdoor Unit



MUZ-FH25/35VE



MUZ-FH50VE

Remote Controller



Type			Inverter Heat Pump			
Indoor Unit			MSZ-FH25VE2	MSZ-FH35VE2	MSZ-FH50VE2	
Outdoor Unit			MUZ-FH25VE	MUZ-FH35VE	MUZ-FH50VE	
Refrigerant			R410A ⁽¹⁾			
Power Source			Outdoor Power supply			
Supply	Outdoor (V / Phase / Hz)		230/Single/50			
Cooling	Design load	kW	2.5	3.5	5.0	
	Annual electricity consumption ⁽²⁾	kWh/a	96	138	244	
	SEER ⁽⁴⁾		9.1	8.9	7.2	
	Capacity	Energy efficiency class		A+++		A++
		Rated	kW	2.5	3.5	5.0
Total Input	Rated	kW	1.4-3.5	0.8-4.0	1.9-6.0	
Heating (Average Season) ⁽³⁾	Design load	kW	3.0(-10°C)	3.6(-10°C)	4.5(-10°C)	
	Declared Capacity	at reference design temperature	kW	3.0(-10°C)	3.6(-10°C)	4.5(-10°C)
		at bivalent temperature	kW	3.0(-10°C)	3.6(-10°C)	4.5(-10°C)
		at operation limit temperature	kW	2.5(-15°C)	3.2(-15°C)	5.2(-15°C)
	Back up heating capacity	kW	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)	
	Annual electricity consumption ⁽²⁾	kWh/a	819	986	1372	
	SCOP ⁽⁴⁾		5.1	5.1	4.6	
	Capacity	Energy efficiency class		A+++		A++
		Rated	kW	3.2	4.0	6.0
	Total Input	Rated	kW	1.8-5.5	1.0-6.3	1.7-8.7
Operating Current (Max)	Rated	A	9.6	10.0	14.0	
Indoor Unit	Input	Rated	kW	0.029	0.031	
	Operating Current(Max)		A	0.4	0.4	
	Dimensions	H*W*D	mm	305(+17)-925-234	305(+17)-925-234	305(+17)-925-234
	Weight		kg	13.5	13.5	13.5
	Air Volume (SLo-Lo-Mid-Hi-SHi ⁽⁵⁾ (Dry/Wet))	Cooling	m ³ /min	3.9-4.7-6.3-8.6-11.6	3.9-4.7-6.3-8.6-11.6	6.4-7.4-8.6-10.1-12.4
		Heating	m ³ /min	4.0-4.7-6.4-9.2-13.2	4.0-4.7-6.4-9.2-13.2	5.7-7.2-9.0-11.2-14.6
	Sound Level (SPL)	Cooling	dB(A)	20-23-29-36-42	21-24-29-36-42	27-31-35-39-44
		Heating	dB(A)	20-24-29-36-44	21-24-29-36-44	25-29-34-39-46
	Sound Level (PWL)	Cooling	dB(A)	58	58	60
		Heating	dB(A)	58	58	60
Dimensions	H*W*D	mm	550-800-285	550-800-285	880-840-330	
Weight		kg	37	37	55	
Outdoor Unit	Air Volume	Cooling	m ³ /min	31.3	33.6	48.8
		Heating	m ³ /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	9.6	9.6	13.6	
Breaker Size		A	9.2	10	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	-15 ~ +24	-15 ~ +24	-15 ~ +24	

(1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP. If leaked to the atmosphere, 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) 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 47 for heating (warmer season) specifications.

MSZ-E SERIES

Developed to complement modern interior room décor, Kirigamine ZEN air conditioners are available in three colours specially chosen to blend in naturally wherever installed.

MSZ-EF18-50VE2B



Stylish Line-up Matches Any Room Décor

The streamlined wall-mounted indoor units have eloquent silver-bevelled edges, expressing sophistication and quality. Combining impressively low power consumption and quiet yet powerful performance, these units provide a best-match scenario for diverse interior designs while simultaneously ensuring maximum room and energy savings.



Energy-efficient Operation



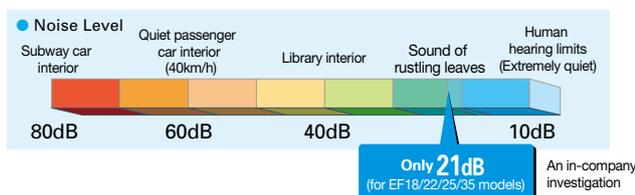
All models in the series have achieved high energy-savings rating, and are contributing to reduced energy consumption in homes, offices and a range of other settings. Offered in a variety of output capacities and installation patterns, the vast applicability promises an ideal match for any user.

Indoor \ Outdoor	Rank A for single connection MUZ-EF25/35VE(H) MUZ-EF42/50VE	Compatibility								
		MXZ								
		2D33VA	2D42VA2	2D53VA2	3E54VA	3E68VA	4E72VA	4E83VA	5E102VA	6D122VA
MSZ-EF18VE3	-	✓	✓	✓	✓	✓	✓	✓	✓	✓
MSZ-EF22VE3	-	✓	✓	✓	✓	✓	✓	✓	✓	✓
MSZ-EF25VE3	A+++ / A++ (A+++)	✓	✓	✓	✓	✓	✓	✓	✓	✓
MSZ-EF35VE3	A+++ / A++ (A++)		✓	✓	✓	✓	✓	✓	✓	✓
MSZ-EF42VE3	A++ / A+			✓	✓	✓	✓	✓	✓	✓
MSZ-EF50VE3	A++ / A+			✓	✓	✓	✓	✓	✓	✓

*VEH

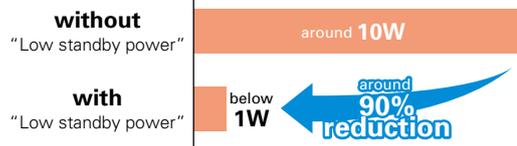
Quiet Comfort All Day Long

Mitsubishi Electric's advanced "Silent Mode" fan speed setting provides super-quiet operation as low as 21dB for EF18/22/25/35 models. This unique feature makes the Kirigamine ZEN series ideal for use in any situation.



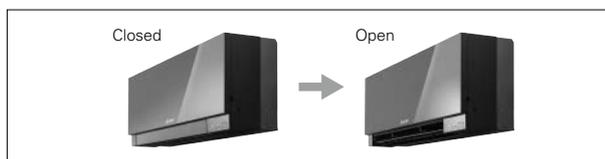
Low Standby Power

Electrical devices consume standby power even when they are not in actual use. While we obviously strive to reduce power consumption during actual use, reducing this wasted power that cannot be seen is also very important.



Superior Exterior and Operating Design Concept

The indoor unit of the Kirigamine ZEN keeps its amazingly thin form even during operation. The only physical change notable is the movement of the variable vent. As a result, a slim attractive look is maintained.



Outdoor Units for Cold Region (25/35)

Single split-type outdoor units are available in both standard and heater-equipped units. An electric heater is installed in each unit to prevent freezing in cold outdoor environments.

Standard Units



MUZ-EF25/35VE

Heater Installed



MUZ-EF25/35VEH

MSZ-E SERIES



Indoor Unit



MSZ-EF18/22/25/35/42/50VE3W White



MSZ-EF18/22/25/35/42/50VE3S Silver



MSZ-EF18/22/25/35/42/50VE3B* Black



Outdoor Unit



MUZ-EF25/35VE(H),42VE



MUZ-EF50VE

Remote Controller



*Soft-dry Cloth is enclosed with Black models.



Type			Inverter Heat Pump								
Indoor Unit			MSZ-EF18VE3	MSZ-EF22VE3	MSZ-EF25VE3	MSZ-EF35VE3	MSZ-EF35VE3	MSZ-EF42VE3	MSZ-EF50VE3		
Outdoor Unit			for MXZ connection		MUZ-EF25VE	MUZ-EF25VEH	MUZ-EF35VE	MUZ-EF35VEH	MUZ-EF42VE	MUZ-EF50VE	
Refrigerant			R410A ⁽¹⁾								
Power Source			Outdoor Power supply								
Supply	Outdoor (V / Phase / Hz)		230/Single/50								
Cooling	Design load	kW	-	-	2.5	2.5	3.5	3.5	4.2	5.0	
	Annual electricity consumption ⁽²⁾	kWh/a	-	-	103	103	144	144	192	244	
	SEER ⁽⁴⁾		-	-	8.5	8.5	8.5	8.5	7.7	7.2	
	Capacity	Energy efficiency class		-	-	A+++	A+++	A+++	A+++	A++	A++
		Rated	kW	-	-	2.5	2.5	3.5	3.5	4.2	5.0
Heating (Average Season) ⁽³⁾	Declared Capacity	at reference design temperature	kW	-	-	2.4(-10°C)	2.4(-10°C)	2.9(-10°C)	2.9(-10°C)	3.8(-10°C)	4.2(-10°C)
		at operation limit temperature	kW	-	-	2.4(-10°C)	2.4(-10°C)	2.9(-10°C)	2.9(-10°C)	3.8(-10°C)	4.2(-10°C)
	Back up heating capacity	kW	-	-	2.0(-15°C)	1.6(-20°C)	2.4(-15°C)	1.7(-20°C)	3.4(-15°C)	3.5(-15°C)	
	Annual electricity consumption ⁽²⁾	kWh/a	-	-	716	730	882	910	1155	1309	
	SCOP ⁽⁴⁾		-	-	4.7	4.6	4.6	4.5	4.6	4.5	
Operating Current (Max)	Capacity	Energy efficiency class		-	-	A++	A++	A+	A+	A+	
		Rated	kW	-	-	3.2	3.2	4.0	4.0	5.4	5.8
	Min-Max	kW	-	-	1.1-4.2	1.1-4.2	1.8-5.5	1.8-5.5	1.4-6.3	1.6-7.5	
	Rated	kW	-	-	0.700	0.700	0.955	0.955	1.460	1.565	
	Input	A	-	-	7.3	7.3	8.5	8.5	9.5	12.4	
Indoor Unit	Input	Rated	kW	0.027	0.027	0.027	0.027	0.031	0.031	0.031	0.034
		Operating Current(Max)	A	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
	Dimensions	H*W*D	mm	299-885-195	299-885-195	299-885-195	299-885-195	299-885-195	299-885-195	299-885-195	
	Weight	kg	-	-	11.5	11.5	11.5	11.5	11.5	11.5	
	Air Volume (SLo-Lo-Mid-Hi-SH ⁽⁵⁾ (Dry/Wet))	Cooling	m ³ /min	4.0-4.6-6.3-8.3-10.5	4.0-4.6-6.3-8.3-10.5	4.0-4.6-6.3-8.3-10.5	4.0-4.6-6.3-8.3-10.5	4.0-4.6-6.3-8.3-10.5	4.0-4.6-6.3-8.3-10.5	5.8-6.6-7.7-8.9-10.3	5.8-6.6-7.9-9.3-11.0
Heating			m ³ /min	4.0-4.6-6.2-8.9-11.9	4.0-4.6-6.2-8.9-11.9	4.0-4.6-6.2-8.9-11.9	4.0-4.6-6.2-8.9-11.9	4.0-4.6-6.2-8.9-12.7	4.0-4.6-6.2-8.9-12.7	5.5-6.3-7.8-9.9-12.7	6.4-7.3-9.0-11.1-13.2
Sound Level (SPL) (SLo-Lo-Mid-Hi-SH ⁽⁵⁾)		Cooling	dB(A)	21-23-29-36-42	21-23-29-36-42	21-23-29-36-42	21-23-29-36-42	21-24-29-36-42	21-24-29-36-42	28-31-35-39-42	30-33-36-40-43
		Heating	dB(A)	21-24-29-37-45	21-24-29-37-45	21-24-29-37-45	21-24-29-37-45	21-24-30-38-46	21-24-30-38-46	28-30-35-41-48	30-33-37-43-49
Outdoor Unit	Sound Level (PWL)	Cooling	dB(A)	-	-	60	60	60	60	60	60
		Heating	dB(A)	-	-	60	60	60	60	60	60
	Dimensions	H*W*D		mm	-	-	550-800-285	550-800-285	550-800-285	550-800-285	880-940-330
		Weight	kg	-	-	30	30	35	35	35	54
	Air Volume	Cooling	m ³ /min	-	-	32.6	32.6	33.6	33.6	35.2	44.6
Heating			m ³ /min	-	-	32.2	32.2	33.6	33.6	33.6	44.6
Sound Level (SPL)		Cooling	dB(A)	-	-	47	47	49	49	50	52
		Heating	dB(A)	-	-	48	48	50	50	51	52
Sound Level (PWL)	Cooling	dB(A)	-	-	58	58	61	61	62	65	
	Heating	dB(A)	-	-	58	58	61	61	62	65	
Ext. Piping	Operating Current (Max)		A	-	-	7.0	7.0	8.2	8.2	9.2	12.0
	Breaker Size		A	-	-	10	10	10	10	10	16
	Diameter	Liquid/Gas	mm	-	-	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7
		Max.Length	Out-In	m	-	-	20	20	20	20	30
		Max.Height	Out-In	m	-	-	12	12	12	12	15
Guaranteed Operating Range (Outdoor)	Cooling	°C	-	-	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	
	Heating	°C	-	-	-15 ~ +24	-20 ~ +24	-15 ~ +24	-20 ~ +24	-15 ~ +24	-15 ~ +24	

(1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of 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) SH: 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 47 for heating (warmer season) specifications.

MSZ-S SERIES

MSZ-G SERIES

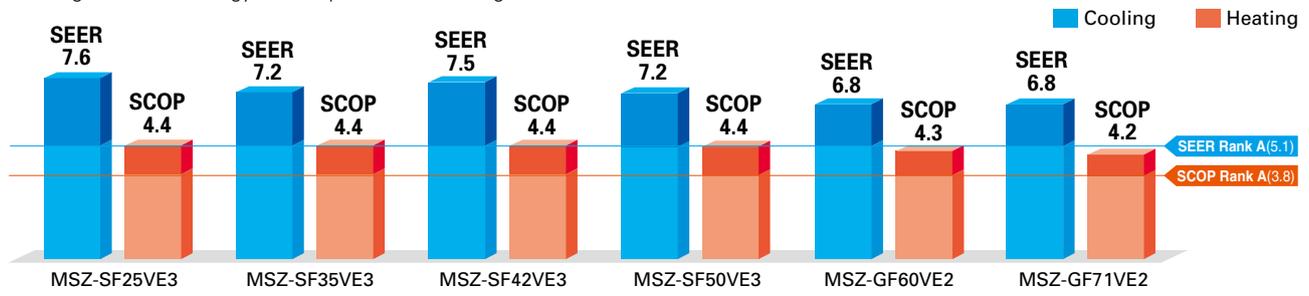
Introducing a compact and stylish indoor unit with amazingly quiet performance. Not only are neat installations in small bedrooms possible, increase energy-savings by selecting the optimal capacity required for each room.



“Rank A++/A+” Energy Savings Achieved for Entire Range of Series



All models in the series, from the low-capacity 25 to the high-capacity 71, have achieved the “Rank A++” for SEER and “Rank A+” for SCOP as energy-savings rating. For home use, such as in bedrooms and living rooms, to light commercial use, such as in offices, our air conditioners are contributing to reduced energy consumption in a wide range.



Wide Line-up

Eight different indoor units (Model 15-71) are available to meet your diversified air conditioning needs.



Compact and Stylish

(MSZ-SF15/20VA)

The stylish, square indoor unit adds a touch of class to any room interior. The compact design is 64mm thinner than our previous indoor unit with the lowest output capacity (MSZ-GE22VA).

Comparison with our previous model GE



Family Design

(MSZ-SF15/20/25/35/42/50)

Models in the 25-50 class are introduced as single-split units while retaining the popular design of the SF15/20VA* as indoor units exclusively for multi-systems. From small rooms to living rooms, it is possible to coordinate residences with a unified design.

*Size may vary.



“Weekly Timer”



Easily set desired temperatures and operation start/stop times to match lifestyle patterns. Reduce wasted energy consumption by using the timer to prevent forgetting to turn off the unit and eliminate temperature setting adjustments.

■ Example Operation Pattern (Winter/Heating mode)

	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
6:00	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
8:00	Automatically changes to high-power operation at wake-up time						
10:00	OFF	OFF	OFF	OFF	OFF	ON 18°C	ON 18°C
12:00	Automatically turned off during work hours					Midday is warmer, so the temperature is set lower	
14:00							
16:00							
18:00	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
20:00	Automatically turns on, synchronized with arrival at home					Automatically raises temperature setting to match time when outside-air temperature is low	
22:00 (during sleeping hours)	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C
	Automatically lowers temperature at bedtime for energy-saving operation at night						

Settings

Pattern Settings: Input up to four settings for each day
Settings: •Start/Stop operation •Temperature setting *The operation mode cannot be set.

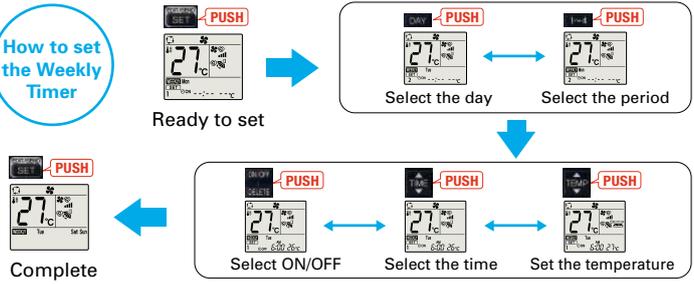
■ Easy set-up using dedicated buttons



The remote controller is equipped with buttons that are used exclusively for setting the Weekly Timer. Setting operation patterns is easy and quick.



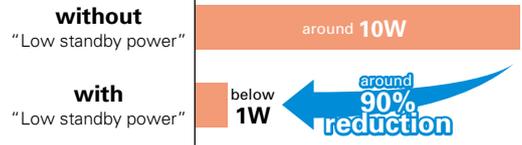
How to set the Weekly Timer



- Start by pushing the “SET” button and follow the instructions to set the desired patterns. Once all of the desired patterns are input, point the top end of the remote controller at the indoor unit and push the “SET” button one more time. (Push the “SET” button only after inputting all of the desired patterns into the remote controller memory. Pushing the “CANCEL” button will end the set-up process without sending the operation patterns to the indoor unit).
- It takes a few seconds to transmit the Weekly Timer operation patterns to the indoor unit. Please continue to point the remote controller at the indoor unit until all data has been sent.
- When “Weekly Timer” is set, temperature can not be set 10°C.

Low Standby Power

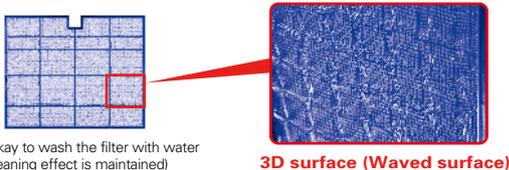
Electrical devices consume standby power even when they are not in actual use. While we obviously strive to reduce power consumption during actual use, reducing this wasted power that cannot be seen is also very important.



Air Purifying Filter

(MSZ-SF25/35/42/50, MSZ-GF60/71)

This filter generates stable antibacterial and deodourising effects. The size of the three-dimensional surface has been increased as well, enlarging the filter capture area. These features give the Air Purifying Filter better dust collection performance than conventional filters. The superior air-cleaning effectiveness raises room comfort yet another level.



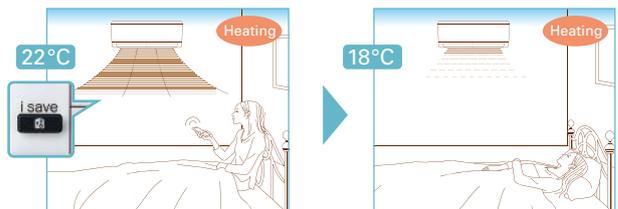
* It is okay to wash the filter with water (air-cleaning effect is maintained)

3D surface (Waved surface)

“i save” Mode



“i save” is a simplified setting function that recalls the preferred (preset) temperature by pressing a single button on the remote controller. Press the same button twice in repetition to immediately return to the previous temperature setting. Using this function contributes to comfortable, waste-free operation, realising the most suitable air conditioning settings and saving on power consumption when, for example, leaving the room or going to bed.



* Temperature can be preset to 10°C when heating in the “i-save” mode.

Outdoor Units for Cold Region (25/35/42/50)

Single split-type outdoor units are available in both standard and heater-equipped units. An electric heater is installed in each unit to prevent freezing in cold outdoor environments.

Standard Units



MUZ-SF25/35/42VE MUZ-SF50VE

Heater Installed



MUZ-SF25/35/42VEH MUZ-SF50VEH

MSZ-S SERIES



Indoor Unit



MSZ-SF15/20VA



Outdoor Unit

For MXZ Connection Only

Remote Controller



Type	Inverter Heat Pump							
Indoor Unit	MSZ-SF15VA		MSZ-SF20VA		MSZ-SF25VE3	MSZ-SF25VE3	MSZ-SF35VE3	
Outdoor Unit	for MXZ connection				MUZ-SF25VE	MUZ-SF25VEH	MUZ-SF35VE	
Refrigerant	R410A ⁽¹⁾							
Power Source	Outdoor Power supply							
Supply	Outdoor (V / Phase / Hz)							
Cooling	Design load	kW	-	-	2.5	2.5	3.5	
	Annual electricity consumption ⁽²⁾	kWh/a	-	-	116	116	171	
	SEER ⁽³⁾		-	-	7.6	7.6	7.2	
	Energy efficiency class		-	-	A++	A++	A++	
		Capacity	kW	-	-	2.5	2.5	3.5
	Total Input	Rated	kW	-	-	0.9-3.4	0.9-3.4	1.1-3.8
Heating (Average Season) ⁽⁴⁾	Design load	kW	-	-	2.4(-10°C)	2.4(-10°C)	2.9(-10°C)	
	Declared Capacity	at reference design temperature	kW	-	-	2.4(-10°C)	2.4(-10°C)	2.9(-10°C)
		at bivalent temperature	kW	-	-	2.4(-10°C)	2.4(-10°C)	2.9(-10°C)
		at operation limit temperature	kW	-	-	2.0(-15°C)	1.6(-20°C)	1.6(-20°C)
	Back up heating capacity	kW	-	-	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)	
	Annual electricity consumption ⁽²⁾	kWh/a	-	-	764	790	923	
SCOP ⁽⁵⁾		-	-	4.4	4.3	4.4		
	Energy efficiency class		-	-	A+	A+		
Capacity	Rated	kW	-	-	3.2	3.2	4.0	
	Min-Max	kW	-	-	1.0-4.1	1.0-4.1	1.3-4.6	
Total Input	Rated	kW	-	-	0.780	0.780	1.030	
Operating Current (Max)		A	-	-	8.4	8.4	8.5	
Indoor Unit	Input	Rated	kW	0.017	0.019	0.024	0.024	
	Operating Current(Max)	A	0.17	0.19	0.2	0.2	0.3	
	Dimensions	H*W*D	mm	250-760-168	250-760-168	299-798-195	299-798-195	
	Weight	kg	7.7	7.7	10	10	10	
	Air Volume (SLo-Lo-Mid-Hi-SH ⁽⁶⁾ Dry/Wet)	Cooling	m ³ /min	3.5 - 3.9 - 4.6 - 5.5 - 6.4	3.5 - 3.9 - 4.6 - 5.5 - 6.9	3.2 - 4.1 - 5.6 - 7.2 - 9.1	3.2 - 4.1 - 5.6 - 7.2 - 9.1	3.2 - 4.1 - 5.6 - 7.2 - 9.1
		Heating	m ³ /min	3.7 - 4.4 - 5.0 - 6.0 - 6.8	3.7 - 4.4 - 5.0 - 6.0 - 7.3	3.0 - 4.1 - 6.7 - 8.2 - 10.3	3.0 - 4.1 - 6.7 - 8.2 - 10.3	3.0 - 4.1 - 6.7 - 8.3 - 11.0
Sound Level (SPL) (SLo-Lo-Mid-Hi-SH ⁽⁶⁾)	Cooling	dB(A)	21 - 26 - 30 - 35 - 40	21 - 26 - 30 - 35 - 42	19 ⁽⁶⁾ - 24 - 30 - 36 - 42	19 ⁽⁶⁾ - 24 - 30 - 36 - 42	19 ⁽⁶⁾ - 24 - 30 - 36 - 42	
	Heating	dB(A)	21 - 26 - 30 - 35 - 40	21 - 26 - 30 - 35 - 42	19 ⁽⁶⁾ - 24 - 34 - 39 - 45	19 ⁽⁶⁾ - 24 - 34 - 39 - 45	19 ⁽⁶⁾ - 24 - 34 - 40 - 46	
Sound Level (PWL)	Cooling	dB(A)	59	60	57	57	57	
Dimensions	H*W*D	mm	-	-	550-800-285	550-800-285	550-800-285	
Weight	kg	-	-	-	31	31	31	
Outdoor Unit	Air Volume	Cooling	m ³ /min	-	-	31.1	31.1	35.9
		Heating	m ³ /min	-	-	30.7	30.7	35.9
	Sound Level (SPL)	Cooling	dB(A)	-	-	47	47	49
		Heating	dB(A)	-	-	48	48	50
	Sound Level (PWL)	Cooling	dB(A)	-	-	58	58	62
		Heating	dB(A)	-	-	58	58	62
Operating Current (Max)	A	-	-	8.2	8.2	8.2		
Breaker Size	A	-	-	10	10	10		
Ext. Piping	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35 / 9.52	6.35 / 9.52	
	Max.Length	Out-In	m	-	-	20	20	
	Max.Height	Out-In	m	-	-	12	12	
Guaranteed Operating Range (Outdoor)	Cooling	°C	-	-	-10 ~ +46	-10 ~ +46	-10 ~ +46	
	Heating	°C	-	-	-15 ~ +24	-20 ~ +24	-15 ~ +24	

(1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of 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) SH: 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 47 for heating (warmer season) specifications.

(6) For single use: only 19dB(A). For multi use (MXZ): 21dB(A).

MSZ-S SERIES MSZ-G SERIES



Indoor Unit



MSZ-SF25/35/42/50VE3



MSZ-GF60/71VE2

Outdoor Unit



MUZ-SF25/35/42VE(H)



MUZ-SF50VE(H)
MUZ-GF60/71VE

Remote Controller



Type	Inverter Heat Pump								
Indoor Unit	MSZ-SF42VE3	MSZ-SF42VE3	MSZ-SF50VE3	MSZ-SF50VE3	MSZ-GF60VE2	MSZ-GF71VE2			
Outdoor Unit	MUZ-SF42VE	MUZ-SF42VEH	MUZ-SF50VE	MUZ-SF50VEH	MUZ-GF60VE	MUZ-GF71VE			
Refrigerant	R410A ⁽¹⁾								
Power Source	Outdoor Power supply								
Supply	Outdoor (V / Phase / Hz) 230/Single/50								
Cooling	Design load	kW	4.2	4.2	5	5	6.1	7.1	
	Annual electricity consumption ⁽²⁾	kWh/a	196	196	246	246	311	364	
	SEER ⁽⁴⁾		7.5	7.5	7.2	7.2	6.8	6.8	
	Energy efficiency class	Rated		A++	A++	A++	A++	A++	A++
		Capacity	kW	4.2	4.2	5	5	6.1	7.1
Heating (Average Season) ⁽⁵⁾	Design load	kW	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	4.2 (-10°C)	4.6 (-10°C)	6.7 (-10°C)	
	Declared Capacity	at reference design temperature	kW	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	4.2 (-10°C)	4.6 (-10°C)	6.7 (-10°C)
		at bivalent temperature	kW	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	4.2 (-10°C)	4.6 (-10°C)	6.7 (-10°C)
		at operation limit temperature	kW	3.4 (-15°C)	3.2 (-20°C)	3.4 (-15°C)	2.3 (-20°C)	3.7 (-15°C)	5.4 (-15°C)
	Back up heating capacity	kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	
SCOP ⁽⁴⁾	Annual electricity consumption ⁽²⁾	kWh/a	1215	1242	1351	1380	1489	2204	
	Rated		4.4	4.3	4.4	4.3	4.3	4.2	
	Energy efficiency class	Rated		A+	A+	A+	A+	A+	
		Capacity	kW	5.4	5.4	5.8	5.8	6.8	8.1
	Total Input	kW	1.3-6.0	1.3-6.0	1.4-7.3	1.4-7.3	2.0-9.3	2.2-9.9	
Indoor Unit	Operating Current (Max)	A	1.580	1.58	1.7	1.7	1.81	2.23	
	Input	kW	9.5	9.5	12.3	12.3	14.5	16.6	
	Operating Current(Max)	A	0.027	0.027	0.035	0.035	0.062	0.058	
	Dimensions	H*W*D	mm	299-798-195	299-798-195	299-798-195	299-798-195	325-1100-238	325-1100-238
	Weight	kg	10	10	10	10	16	16	
Outdoor Unit	Air Volume (SLo-Lo-Mid-Hi-SH ⁽³⁾ Dry/Wet)	Cooling	m ³ /min	4.7 - 5.8 - 6.7 - 7.9 - 9.1	4.7 - 5.8 - 6.7 - 7.9 - 9.1	5.1 - 6.2 - 7.0 - 8.2 - 9.9	5.1 - 6.2 - 7.0 - 8.2 - 9.9	9.8-11.3-13.4-15.6-18.3	9.7-11.5-13.3-15.4-17.8
		Heating	m ³ /min	4.7 - 5.8 - 7.2 - 9.1 - 11.4	4.7 - 5.8 - 7.2 - 9.1 - 11.4	5.1 - 6.4 - 8.0 - 9.8 - 12.0	5.1 - 6.4 - 8.0 - 9.8 - 12.0	9.8-11.3-13.4-15.6-18.3	10.2-11.5-13.3-15.4-17.8
	Sound Level (SPL) (SLo-Lo-Mid-Hi-SH ⁽³⁾)	Cooling	dB(A)	26 ⁽⁶⁾ - 31 - 34 - 38 - 42	26 ⁽⁶⁾ - 31 - 34 - 38 - 42	28 ⁽⁷⁾ - 33 - 36 - 40 - 45	28 ⁽⁷⁾ - 33 - 36 - 40 - 45	29 - 37 - 41 - 45 - 49	30 - 37 - 41 - 45 - 49
		Heating	dB(A)	26 ⁽⁶⁾ - 31 - 36 - 42 - 47	26 ⁽⁶⁾ - 31 - 36 - 42 - 47	28 ⁽⁷⁾ - 33 - 38 - 43 - 49	28 ⁽⁷⁾ - 33 - 38 - 43 - 49	29 - 37 - 41 - 45 - 49	30 - 37 - 41 - 45 - 49
	Sound Level (PWL)	Cooling	dB(A)	57	57	58	58	65	65
		Heating	dB(A)	57	57	58	58	65	65
	Dimensions	H*W*D	mm	550-800-285	550-800-285	880-840-330	880-840-330	880-840-330	880-840-330
Weight	kg		35	35	55	55	50	53	
Ext. Piping	Air Volume	Cooling	m ³ /min	35.2	35.2	44.6	44.6	49.2	50.1
		Heating	m ³ /min	33.6	33.6	44.6	44.6	49.2	48.2
	Sound Level (SPL)	Cooling	dB(A)	50	50	52	52	55	55
		Heating	dB(A)	51	51	52	52	55	55
	Sound Level (PWL)	Cooling	dB(A)	63	63	65	65	65	65
Operating Current (Max)	A		9.2	9.2	12	12	14	16.1	
Breaker Size	A		10	10	16	16	20	20	
Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 12.7	6.35/15.88	9.52/15.88	
	Max.Length	Out-In	m	20	20	30	30	30	
	Max.Height	Out-In	m	12	12	15	15	15	
Guaranteed Operating Range (Outdoor)	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	
	Heating	°C	-15 ~ +24	-20 ~ +24	-15 ~ +24	-20 ~ +24	-15 ~ +24	-15 ~ +24	

(1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of 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) SH: 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 47 for heating (warmer season) specifications.

(6) For single use: only 26dB(A). For multi use (MXZ): 28dB(A).

(7) For single use: only 28dB(A). For multi use (MXZ): 30dB(A).

MSZ-DM25/35VA



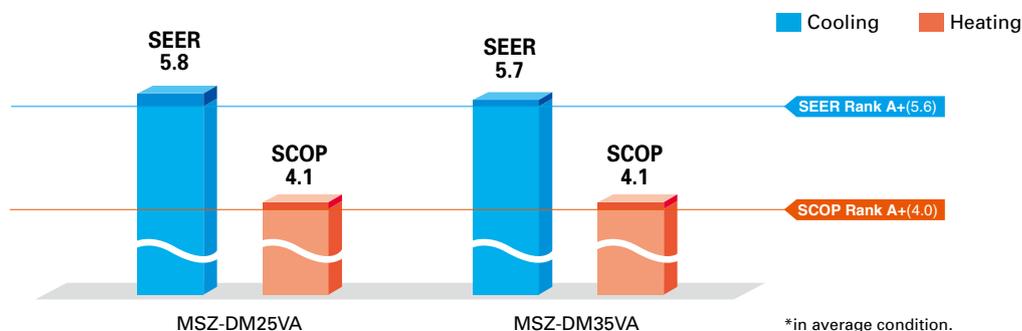
MSZ-D SERIES

Compact, high-performance indoor and outdoor units equipped with high-performance air purifying filters contribute to greater room comfort. Wi-Fi and system controller connectivity enable enhanced expandability.

Advanced Inverter Control – Efficient Operation All the Time



Mitsubishi Electric's cutting-edge inverter technologies are adopted to provide automatic adjustment of operation load according to need. This reduces excessive consumption of electricity, and thereby realises an Energy Rank "A+".



Wider Cooling Operating Range

As a result of an extended operating range in cooling, these models accommodate a wider range of usage environments and applications than previous models.

Operating Range (Cooling)



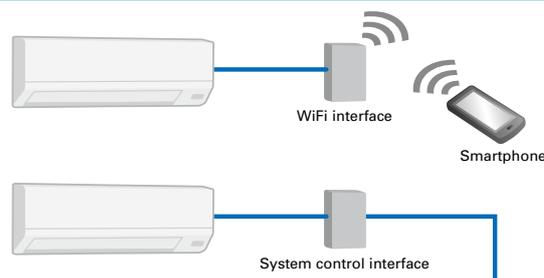
Wi-Fi and System Control

Wi-Fi Interface

Optional interface enabling users to control air conditioners and check operating status via devices such as personal computers, tablets and smartphones.

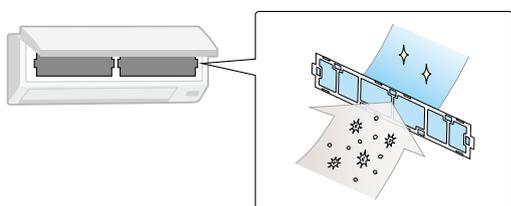
System Control Interface

- Remote on/off operation is possible by input to the connector.
- Depending on the interface used, connecting a wired remote control such as the PAR-32MASS is possible.
- Centralized control is possible when connected to M-NET.



Silver-ionized Air Purifying Filter

The high performance filter are attached as standard. Captures the bacteria, pollen and other allergens in the air and neutralises them.



Compact Units

The width of both indoor and outdoor units are compact, making installation in smaller, tighter spaces possible.

Indoor Unit: MSZ-DM25VA



Only 799mm width

Outdoor Unit: MUZ-DM25/35VA



Only 699mm width

MSZ-D SERIES



Indoor Unit



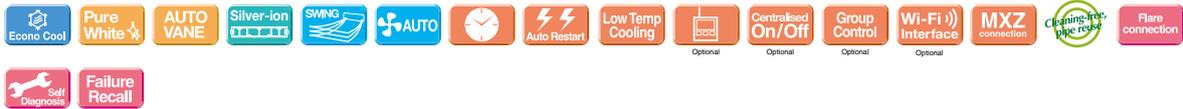
MSZ-DM25/35VA

Outdoor Unit



MUZ-DM25/35VA

Remote Controller



Type	Inverter Heat Pump			
Indoor Unit	MSZ-DM25VA		MSZ-DM35VA	
Outdoor Unit	MUZ-DM25VA		MUZ-DM35VA	
Refrigerant	R410A ⁽¹⁾			
Power Source	Indoor Power supply			
Supply	Outdoor (V / Phase / Hz) 230V/Single/50Hz			
Cooling	Design load	kW	2.5	
	Annual electricity consumption ⁽²⁾	kWh/a	149	
	SEER ⁽⁴⁾		5.8	
	Energy efficiency class		A+	
		Capacity	kW	3.15
Capacity	Rated	kW	2.5	
	Min-Max	kW	1.3 - 3.0	
Total Input	Rated	kW	0.710	
			1.020	
Heating (Average Season) ⁽³⁾	Design load	kW	1.9 (-10°C)	
	Declared Capacity	at reference design temperature	kW	1.9 (-10°C)
		at bivalent temperature	kW	1.9 (-10°C)
		at operation limit temperature	kW	1.9 (-10°C)
	Back up heating capacity	kW	0.0 (-10°C)	
	Annual electricity consumption ⁽²⁾	kWh/a	647	
	SCOP ⁽⁴⁾		4.1	
	Energy efficiency class		A+	
Capacity		kW	3.6	
Capacity	Rated	kW	3.15	
	Min-Max	kW	0.9 - 3.5	
Total Input	Rated	kW	0.850	
			0.975	
Operating Current (Max)	Input	A	5.8	
	Rated	kW	0.020	
Operating Current(Max)		A	0.3	
			0.3	
Dimensions	H*W*D	mm	290-799-232	
			290-799-232	
Weight		kg	9	
			9	
Indoor Unit	Air Volume (SLo-Lo-Mid-Hi-SHi ⁽⁵⁾ Dry/Wet)	Cooling	m ³ /min	3.8 - 5.5 - 7.3 - 9.5
		Heating	m ³ /min	3.5 - 5.5 - 7.5 - 10.0
	Sound Level (SPL)	Cooling	dB(A)	22 - 30 - 37 - 43
		Heating	dB(A)	23 - 30 - 37 - 43
	Sound Level (PWL)	Cooling	dB(A)	57
		Heating	dB(A)	60
Dimensions	H*W*D	mm	538-699-249	
Outdoor Unit	Weight		kg	24
				25
	Air Volume	Cooling	m ³ /min	31.5
		Heating	m ³ /min	31.5
	Sound Level (SPL)	Cooling	dB(A)	50
		Heating	dB(A)	51
Sound Level (PWL)	Cooling	dB(A)	63	
	Heating	dB(A)	64	
Operating Current (Max)		A	5.5	
			6.2	
Breaker Size		A	10	
			10	
Ext. Piping	Diameter	Liquid/Gas	mm	6.35/9.52
	Max.Length	Out-In	m	20
	Max.Height	Out-In	m	12
Guaranteed Operating Range (Outdoor)	Cooling	°C	-10 - +46	
	Heating	°C	-10 - +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 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⁾ 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 53 for heating (warmer season) specifications.

MSZ-H SERIES

Compact, high-performance indoor and outdoor units and advanced inverter technologies provide superior energy savings and comfort in all rooms.

MSZ-HJ25/35/50VA



MSZ-HJ60/71VA



Stylish Design with Flat Panel Front

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



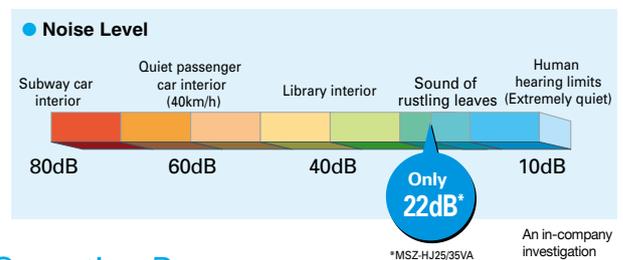
Advanced Inverter Control – Efficient Operation All the Time



Mitsubishi Electric's cutting-edge inverter technologies are adopted to provide automatic adjustment of operation load according to need. This reduces excessive consumption of electricity, and thereby realises an Energy Rank "A" rating for 25/35 classes and "A+" for 50/60/71 classes.

Silent Operation

Quiet, relaxing space is within reach. Operational noise is a low 22dB (25/35 classes). Operation is so silent you might even forget the air conditioner is on.



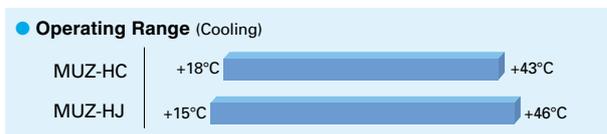
Long Piping Length

Compared to previous models, the piping length is significantly increased, further enhancing the ease and flexibility of installation.

	MSZ-HJ60/71	MSZ-HJ25/35/50	MSZ-HC
Max piping length	30m	20m	10m
Max piping height difference	15m	12m	5m

Operating Range

As a result of an extended operating range in cooling, these models accommodate a wider range of usage environments and applications than previous models.



Compact Units

The widths of both indoor and outdoor units are compact, making installation in smaller, tighter spaces possible.

Indoor Unit: MSZ-HJ25/35/50VA



Only 799mm width

Outdoor Unit: MUZ-HJ25/35VA



Only 699mm width

Compared to previous models, width is down by 16%.



MSZ-H SERIES



Indoor Unit



MSZ-HJ25/35/50VA



MSZ-HJ60/71VA

Outdoor Unit



MUZ-HJ25/35VA



MUZ-HJ50VA



MUZ-HJ60/71VA

Remote Controller



Type	Inverter Heat Pump							
Indoor Unit	MSZ-HJ25VA		MSZ-HJ35VA	MSZ-HJ50VA	MSZ-HJ60VA	MSZ-HJ71VA		
Outdoor Unit	MUZ-HJ25VA		MUZ-HJ35VA	MUZ-HJ50VA	MUZ-HJ60VA	MUZ-HJ71VA		
Refrigerant	R410A ⁽¹⁾							
Power Source	Indoor Power supply							
Supply	Outdoor (V / Phase / Hz)							
Cooling	Design load	kW	2.5	3.1	5.0	6.1	7.1	
	Annual electricity consumption ⁽²⁾	kWh/a	171	212	292	354	441	
	SEER ⁽³⁾		5.1	5.1	6.0	6.0	5.6	
	Capacity	Energy efficiency class		A	A	A+	A+	A+
		Rated	kW	2.5	3.15	5.0	6.1	7.1
Heating (Average Season) ⁽⁵⁾	Design load	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)	
	Declared Capacity	at reference design temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)
		at bivalent temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)
		at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)
	Back up heating capacity	kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	
Annual electricity consumption ⁽²⁾	kWh/a	698	885	1267	1544	1854		
SCOP ⁽⁴⁾		3.8	3.8	4.2	4.1	4.0		
Operating Current (Max)	Energy efficiency class		A	A	A+	A+	A+	
	Rated	kW	3.15	3.6	5.4	6.8	8.1	
	Min-Max	kW	0.9 - 3.5	1.1 - 4.1	1.4 - 6.5	1.5 - 8.4	1.5 - 8.5	
	Total Input	kW	0.870	0.995	1.480	1.970	2.440	
	Rated	kW	0.870	0.995	1.480	1.970	2.440	
Indoor Unit	Input	A	5.8	6.5	9.8	12.5	12.5	
	Input	Rated	kW	0.020	0.021	0.037	0.055	0.055
	Operating Current(Max)	A	0.3	0.3	0.4	0.5	0.5	
	Dimensions	H*W*D	mm	290-799-232	290-799-232	290-799-232	305-923-250	305-923-250
	Weight	kg	9	9	9	13	13	
	Air Volume (SLo-Lo-Mid-Hi-SHi ⁽³⁾ (Dry/Wet))	Cooling	m ³ /min	3.8 - 5.5 - 7.3 - 9.5	3.8 - 5.7 - 7.8 - 10.9	6.3 - 9.1 - 11.1 - 12.9	9.3 - 12.2 - 15.0 - 19.9	10.0 - 12.2 - 15.0 - 19.9
		Heating	m ³ /min	3.5 - 5.5 - 7.5 - 10.0	3.5 - 5.5 - 7.5 - 10.3	6.1 - 8.3 - 11.1 - 14.3	9.4 - 12.5 - 16.0 - 19.9	10.3 - 12.7 - 16.4 - 19.9
	Sound Level (SPL) (SLo-Lo-Mid-Hi-SHi ⁽³⁾)	Cooling	dB(A)	22 - 30 - 37 - 43	22 - 31 - 38 - 45	28 - 36 - 40 - 45	31 - 38 - 44 - 50	33 - 38 - 44 - 50
		Heating	dB(A)	23 - 30 - 37 - 43	23 - 30 - 37 - 44	27 - 34 - 41 - 47	31 - 38 - 44 - 49	33 - 38 - 44 - 49
	Sound Level (PWL)	dB(A)	57	60	65	65	65	
Dimensions	H*W*D	mm	538-699-249	538-699-249	550-800-285	880-840-330	880-840-330	
Outdoor Unit	Weight	kg	24	25	36	55	55	
	Air Volume	Cooling	m ³ /min	31.5	31.5	36.3	47.9	49.3
		Heating	m ³ /min	31.5	31.5	34.8	47.9	47.9
	Sound Level (SPL)	Cooling	dB(A)	50	50	55	55	55
		Heating	dB(A)	50	50	51	55	55
	Sound Level (PWL)	Cooling	dB(A)	63	64	64	65	66
		Heating	dB(A)	63	64	64	65	66
	Operating Current (Max)	A	5.5	6.2	9.4	12	12	
	Breaker Size	A	10	10	12	16	16	
	Ext. Piping	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/12.7	6.35/15.88	9.52/15.88
Max.Length		Out-In	m	20	20	30	30	
Max.Height		Out-In	m	12	12	15	15	
Guaranteed Operating Range (Outdoor)	Cooling	°C	+15 ~ +46	+15 ~ +46	+15 ~ +46	+15 ~ +46	+15 ~ +46	
	Heating	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +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 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) 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 47 for heating (warmer season) specifications.

MFZ SERIES

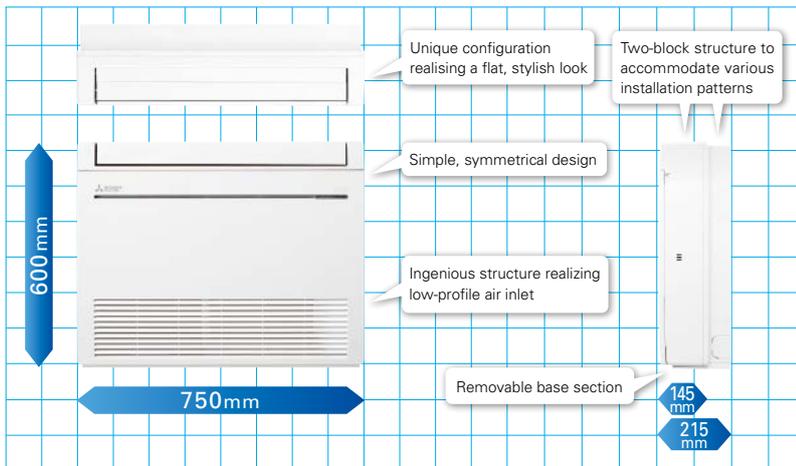
High Capacity, Energy Savings and a Design in Harmony with Living Spaces
Raise the Value of Your Room to the Next Level.

MFZ-KJ25/35/50VE

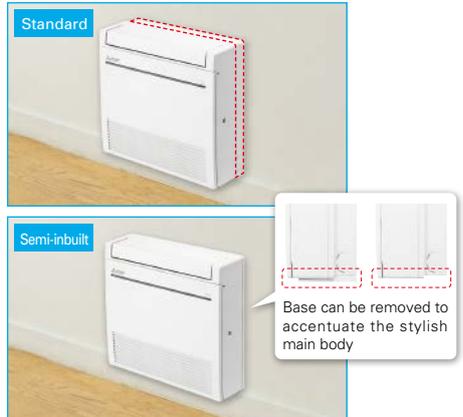


Simple , Flat Design

Uneven surfaces have been smoothed to provide a simple design with linear beauty, harmonised with all types of interiors.

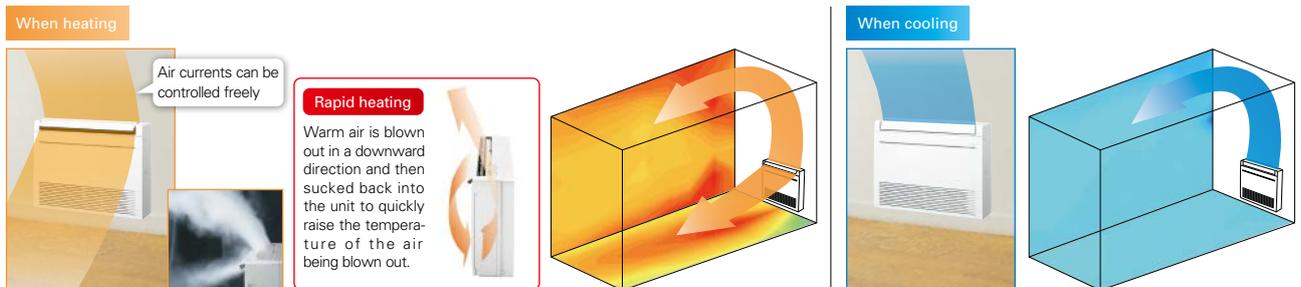


Images of installed unit



Multi-flow Vane

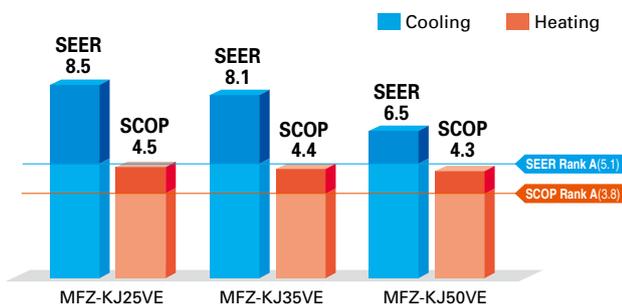
Three uniquely shaped vanes control the airflow and allow the freedom to customize comfort according to preferences.



*The downward airflow is also possible as well as heating.

Excellent Energy-saving Performance

SEER A+++ (25) and SCOP A+ (25/35/50) ratings have been achieved through development focusing on compliance with European energy-related product (ErP) regulations.



Weekly Timer (Introduced in response to market demand)

Temperature settings and On/Off control can be managed over a period of one week using the Weekly Timer. Up to eight setting patterns per calendar day are possible.

Trouble-free Installation and Maintenance

Using the original installation plate that comes as standard equipment, installation of the unit is a snap. Levelling adjusters are provided, preventing damage to the wall. Generous pipe length (20–30 metres) is provided, so there is no need to worry about distance to the outdoor unit. All units are equipped with an automatic self-diagnostics function as well. Simply access the trouble log recall mode for instant troubleshooting.

MFZ-KJ SERIES



Indoor Unit



MFZ-KJ25/35/50VE2



Outdoor Unit



MUFZ-KJ25/35VE



MUFZ-KJ50VE

Remote Controller



Type		Inverter Heat Pump				
Indoor Unit		MFZ-KJ25VE2	MFZ-KJ35VE2	MFZ-KJ50VE2		
Outdoor Unit		MUFZ-KJ25VE	MUFZ-KJ35VE	MUFZ-KJ50VE		
Refrigerant		R410A ^{(*)1}	R410A ^{(*)1}	R410A ^{(*)1}		
Power Supply		Outdoor power supply				
		230 / Single / 50				
Cooling	Design load	kW	2.5	3.5	5.0	
	Annual electricity consumption ^{(*)2}	kWh/a	102	150	266	
	SEER ^{(*)4}		8.5	8.1	6.5	
	Capacity	Energy efficiency class		A+++	A++	A+
		Rated	kW	2.5	3.5	5.0
Total Input	Min-Max	kW	0.5 - 3.4	0.5 - 3.7	1.6 - 5.7	
	Rated	kW	0.540	0.940	1.410	
Heating (Average Season)	Design load	kW	3.4(-10°C)	3.5(-10°C)	4.4(-10°C)	
	Declared Capacity	at reference design temperature	kW	3.4(-10°C)	3.5(-10°C)	4.4(-10°C)
		at bivalent temperature	kW	3.4(-10°C)	3.5(-10°C)	4.4(-10°C)
		at operation limit temperature	kW	2.4(-15°C)	2.9(-15°C)	6.0(-15°C)
	Back up heating capacity	kW	0.0(-10°C)	0.0(-10°C)	0.0(-10°C)	
	Annual electricity consumption ^{(*)2}	kWh/a	1059	1110	1406	
	SCOP ^{(*)4}		4.5	4.4	4.3	
	Capacity	Energy efficiency class		A+	A+	A+
Rated		kW	3.4	4.3	6.0	
Total Input	Min-Max	kW	1.2 - 4.6	1.2 - 5.5	2.2 - 8.2	
	Rated	kW	0.770	1.100	1.610	
Operating Current (Max)						
Indoor Unit	Input	Rated	kW	0.016	0.016	
	Operating Current(Max)		A	0.17	0.17	
	Dimensions	H*W*D	mm	600-750-215	600-750-215	
	Weight		kg	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	
		Heating	m ³ /min	3.9 - 5.1 - 6.2 - 7.7 - 9.7	3.9 - 5.1 - 6.2 - 7.7 - 9.7	
	Sound Level (SPL)	Cooling	dB(A)	20 - 25 - 30 - 35 - 39	20 - 25 - 30 - 35 - 39	
		Heating	dB(A)	19 - 25 - 30 - 35 - 41	19 - 25 - 30 - 35 - 41	
	Sound Level (PWL)	Cooling	dB(A)	49	50	
		Heating	dB(A)	56	56	
Dimensions		H*W*D	mm	550-800-285	550-800-285	
Outdoor Unit	Weight		kg	37	37	
	Air Volume	Cooling	m ³ /min	31.3	31.3	
		Heating	m ³ /min	33.6	33.6	
	Sound Level (SPL)	Cooling	dB(A)	46	47	
		Heating	dB(A)	51	51	
	Sound Level (PWL)	Cooling	dB(A)	59	60	
		Heating	dB(A)	63	63	
	Operating Current(Max)		A	9.2	9.2	
	Breaker Size		A	10	10	
	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	Cooling	°C	-10 ~ +46	-10 ~ +46		
	Heating	°C	-15 ~ +24	-15 ~ +24		

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of 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) 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".

MLZ SERIES

MLZ-KA25/35/50VA

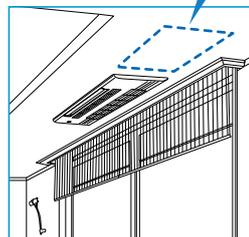


Introducing a new type of ceiling cassette for the Multi-Split Series with streamlined interior dimensions and a sharp, sleek appearance.

Ceiling Mounted

Installing the ceiling-mounted MLZ Series unit in a room creates a more spacious feel that enhances room comfort. This overhead format is also an excellent solution when lighting equipment is installed at the centre of the room and fixtures such as bookshelves are mounted on wall surfaces.

Access door not required



Slim Body

The new units are designed with a slim body (only 175mm high), ensuring easy installation even when low ceiling cavities limit installation space. The need for ceiling cavity service space is also eliminated, further reducing the dimensions required for installation.



Set Airflow According to Ceiling Height

Dual-level airflow selection is engineered to accommodate specific ceiling heights. This is a key feature for adjusting airflow effectively when it is either too strong or too weak due to being mismatched with the height of the ceiling.

	25	35	50
Standard	2.4m	2.4m	2.4m
High ceiling	2.7m	2.7m	2.7m

Auto Vane Control

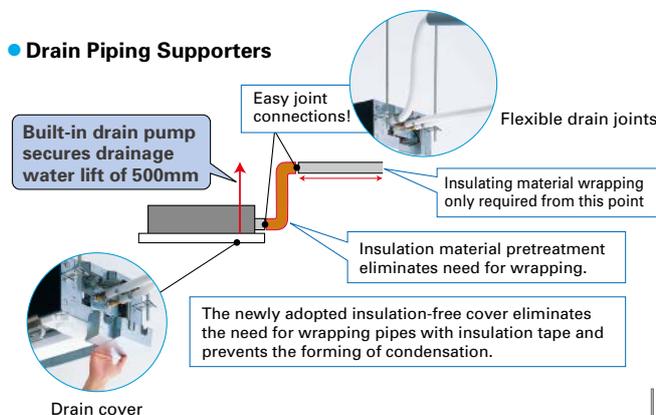
Outlet vanes can be moved left and right, and up and down using the remote controller. This improved airflow control feature solves the problem of drafts.



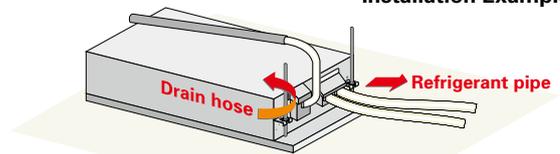
Easy Installation

A built-in drain pump (500mm lift) and flexible drain joints make attaching the drain hose in the ceiling cavity easy, resulting in simple and fast installation. Tight yet flexible fittings eliminate the need of wrapping with heat-insulation tape, and ensure that pipe and drain cover connections are free of condensation.

• Drain Piping Supporters



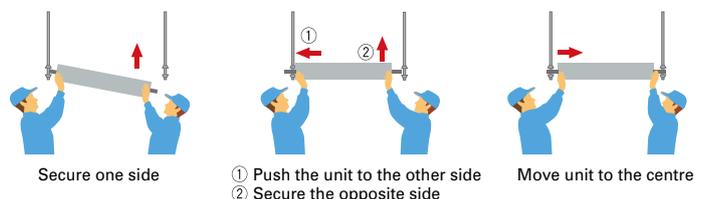
Installation Example



Flexible drain joints simplify drain piping work in narrow ceiling areas

• Easy Mounting Plate

Suspension work simplified with well-designed mounting plates



MLZ-KA SERIES



Indoor Unit



MLZ-KA25/35/50VA

Panel

MPL-443W

Outdoor Unit

For MXZ Connection Only

Remote Controller



Type			Inverter Heat Pump			
Indoor Unit			MLZ-KA25VA	MLZ-KA35VA	MLZ-KA50VA	
Outdoor Unit			for MXZ connection			
Refrigerant			R410A ⁽¹⁾			
Power Source			Outdoor Power supply			
Supply	Outdoor (V / Phase / Hz)		230V / Single / 50Hz			
Cooling	Design load	kW	-	-	-	
	Annual electricity consumption ⁽²⁾	kWh/a	-	-	-	
	SEER ⁽⁴⁾		-	-	-	
	Capacity	Energy efficiency class		-	-	-
		Rated	kW	-	-	-
Total Input	Min-Max	kW	-	-	-	
	Rated	kW	-	-	-	
Heating (Average Season)	Design load	kW	-	-	-	
	Declared Capacity	at reference design temperature	kW	-	-	-
		at bivalent temperature	kW	-	-	-
		at operation limit temperature	kW	-	-	-
	Back up heating capacity	kW	-	-	-	
Annual electricity consumption ⁽²⁾	kWh/a	-	-	-		
SCOP ⁽⁴⁾	Energy efficiency class		-	-	-	
	Rated	kW	-	-	-	
Capacity	Min-Max	kW	-	-	-	
	Rated	kW	-	-	-	
Operating Current (Max)	A	0.4	0.4	0.4		
Indoor Unit	Input	Rated	0.040	0.040	0.040	
		Operating Current(Max)	A	-	-	
	Dimensions	H*W*D	175-1102-360	175-1102-360	175-1102-360	
	Weight	kg	15	15	15	
	Air Volume (SLo-Lo-Mid-Hi-SH ⁽³⁾ Dry/Wet)	Cooling	m ³ /min	7.2-8.0-8.8	7.3-8.4-9.4	8.3-9.8-11.4
		Heating	m ³ /min	7.0-8.2-9.2	7.7-8.8-9.9	8.8-10.3-11.8
	Sound Level (SPL) (SLo-Lo-Mid-Hi-SH ⁽³⁾)	Cooling	dB(A)	29-32-35	31-34-37	34-38-43
		Heating	dB(A)	28-32-36	31-35-38	34-39-43
	Sound Level (PWL)	Cooling	dB(A)	52	54	60
		Heating	dB(A)	-	-	-
Panel	Dimensions	H*W*D	34-1200-414	34-1200-414	34-1200-414	
	Weight	kg	3.5	3.5	3.5	
	Dimensions	H*W*D	-	-	-	
Outdoor Unit	Air Volume	Cooling	m ³ /min	-	-	
		Heating	m ³ /min	-	-	
	Sound Level (SPL)	Cooling	dB(A)	-	-	-
		Heating	dB(A)	-	-	-
	Sound Level (PWL)	Cooling	dB(A)	-	-	-
		Heating	dB(A)	-	-	-
	Operating Current (Max)	A	-	-	-	
	Breaker Size	A	-	-	-	
	Ext. Piping	Diameter	Liquid/Gas	6.35/9.52	6.35/9.52	6.35/12.7
		Max.Length	Out-In	m	-	-
Max.Height		Out-In	m	-	-	
Guaranteed Operating Range (Outdoor)	Cooling	°C	-	-	-	
	Heating	°C	-	-	-	

⁽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 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⁾ SH: 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".

Specification on Warmer Condition

Type		Inverter Heat Pump							
Indoor Unit		MSZ-FH25VE		MSZ-FH35VE		MSZ-FH50VE			
Outdoor Unit		MUZ-FH25VE	MUZ-FH25VEHZ	MUZ-FH35VE	MUZ-FH35VEHZ	MUZ-FH50VE	MUZ-FH50VEHZ		
Refrigerant		R410A ⁽¹⁾							
Cooling	Design load	kW	2.5	2.5	3.5	3.5	5.0	5.0	
	Annual electricity consumption ⁽²⁾	kWh/a	96	96	138	138	244	244	
	SEER		9.1	9.1	8.9	8.9	7.2	7.2	
		Energy efficiency class	A+++	A+++	A+++	A+++	A++	A++	
Heating (Warmer Season)	Design load	kW	1.7 (2°C)	1.8 (2°C)	2.0 (2°C)	2.2 (2°C)	2.5 (2°C)	3.3 (2°C)	
	Declared Capacity	at reference design temperature	kW	1.7 (2°C)	1.8 (2°C)	2.0 (2°C)	2.2 (2°C)	2.5 (2°C)	3.3 (2°C)
		at bivalent temperature	kW	1.7 (2°C)	1.8 (2°C)	2.0 (2°C)	2.2 (2°C)	2.5 (2°C)	3.3 (2°C)
		at operation limit temperature	kW	2.5 (-15°C)	1.7 (-25°C)	3.2 (-15°C)	2.6 (-25°C)	5.2 (-15°C)	3.8 (-25°C)
	Back up heating capacity	kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	
	Annual electricity consumption ⁽²⁾	kWh/a	376	397	429	471	614	787	
SCOP		6.3	6.3	6.5	4.8 / 6.5	5.7	5.9		
		Energy efficiency class	A+++	A+++	A+++	A+++	A+++	A+++	

Type		Inverter Heat Pump							
Indoor Unit		MSZ-EF25VE2		MSZ-EF35VE2		MSZ-EF42VE2	MSZ-EF50VE2		
Outdoor Unit		MUZ-EF25VE	MUZ-EF25VEH	MUZ-EF35VE	MUZ-EF35VEH	MUZ-EF42VE	MUZ-EF50VE		
Refrigerant		R410A ⁽¹⁾							
Cooling	Design load	kW	2.5	2.5	3.5	3.5	4.2	5.0	
	Annual electricity consumption ⁽²⁾	kWh/a	103	103	144	144	192	244	
	SEER		8.5	8.5	8.5	8.5	7.7	7.2	
		Energy efficiency class	A+++	A+++	A+++	A+++	A++	A++	
Heating (Warmer Season)	Design load	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.3 (2°C)	
	Declared Capacity	at reference design temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.3 (2°C)
		at bivalent temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.3 (2°C)
		at operation limit temperature	kW	2.0 (-15°C)	1.6 (-20°C)	2.4 (-15°C)	1.7 (-20°C)	3.4 (-15°C)	3.5 (-15°C)
	Back up heating capacity	kW	0.0 (2°C)						
	Annual electricity consumption ⁽²⁾	kWh/a	304	304	396	396	491	557	
SCOP		6.0	6.0	5.7	5.7	6.0	5.8		
		Energy efficiency class	A+++	A+++	A+++	A+++	A+++	A+++	

Type		Inverter Heat Pump								
Indoor Unit		MSZ-SF25VE2		MSZ-SF35VE2		MSZ-SF42VE2		MSZ-SF50VE2		
Outdoor Unit		MUZ-SF25VE	MUZ-SF25VEH	MUZ-SF35VE	MUZ-SF35VEH	MUZ-SF42VE	MUZ-SF42VEH	MUZ-SF50VE	MUZ-SF50VEH	
Refrigerant		R410A ⁽¹⁾								
Cooling	Design load	kW	2.5	2.5	3.5	3.5	4.2	4.2	5.0	
	Annual electricity consumption ⁽²⁾	kWh/a	116	116	171	171	196	196	246	
	SEER		7.6	7.6	7.2	7.2	7.5	7.5	7.2	
		Energy efficiency class	A++							
Heating (Warmer Season)	Design load	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)	2.3 (2°C)	
	Declared Capacity	at reference design temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)	2.3 (2°C)
		at bivalent temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)	2.3 (2°C)
		at operation limit temperature	kW	2.0 (-15°C)	1.6 (-20°C)	2.2 (-15°C)	1.6 (-20°C)	3.4 (-15°C)	2.2 (-20°C)	3.4 (-15°C)
	Back up heating capacity	kW	0.0 (2°C)							
	Annual electricity consumption ⁽²⁾	kWh/a	337	337	923 / 418	417	507	507	563	
SCOP		5.4	5.4	5.4	5.4	5.8	5.8	5.7		
		Energy efficiency class	A+++							

Type		Inverter Heat Pump			
Indoor Unit		MSZ-GF60VE	MSZ-GF71VE		
Outdoor Unit		MUZ-GF60VE	MUZ-GF71VE		
Refrigerant		R410A ⁽¹⁾			
Cooling	Design load	kW	6.1	7.1	
	Annual electricity consumption ⁽²⁾	kWh/a	311	364	
	SEER		6.8	6.8	
		Energy efficiency class	A++	A++	
Heating (Warmer Season)	Design load	kW	2.5 (2°C)	3.7 (2°C)	
	Declared Capacity	at reference design temperature	kW	2.5 (2°C)	3.7 (2°C)
		at bivalent temperature	kW	2.5 (2°C)	3.7 (2°C)
		at operation limit temperature	kW	3.7 (-15°C)	5.4 (-15°C)
	Back up heating capacity	kW	0.0 (2°C)	0.0 (2°C)	
	Annual electricity consumption ⁽²⁾	kWh/a	664	963	
SCOP ⁽⁴⁾		5.3	5.4		
		Energy efficiency class	A+++	A+++	

Type		Inverter Heat Pump						
Indoor Unit		MSZ-HJ25VA	MSZ-HJ35VA	MSZ-HJ50VA	MSZ-DM25VA	MSZ-DM35VA		
Outdoor Unit		MUZ-HJ25VA	MUZ-HJ35VA	MUZ-HJ50VA	MUZ-DM25VA	MUZ-DM35VA		
Refrigerant		R410A ⁽¹⁾						
Cooling	Design load	kW	2.5	3.1	5.0	2.5	3.1	
	Annual electricity consumption ⁽²⁾	kWh/a	171	212	292	149	190	
	SEER		5.1	5.1	6.0	5.8	5.7	
		Energy efficiency class	A	A	A+	A+	A+	
Heating (Warmer Season)	Design load	kW	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)	1.1 (2°C)	1.3 (2°C)	
	Declared Capacity	at reference design temperature	kW	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)	1.1 (2°C)	1.3 (2°C)
		at bivalent temperature	kW	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)	1.1 (2°C)	1.3 (2°C)
		at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)	1.9 (-10°C)	2.4 (-10°C)
	Back up heating capacity	kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	
	Annual electricity consumption ⁽²⁾	kWh/a	356	426	539	325	386	
SCOP		4.3	4.3	5.5	4.7	4.7		
		Energy efficiency class	A+	A+	A+++	A++	A++	

⁽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 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.

Specification on Warmer Condition

Type			Inverter Heat Pump						
Model	Indoor		MFZ-KJ25VE		MFZ-KJ35VE		MFZ-KJ50VE		
	Outdoor		MUFZ-KJ25VE	MUFZ-KJ25VEHZ	MUFZ-KJ35VE	MUFZ-KJ35VEHZ	MUFZ-KJ50VE	MUFZ-KJ50VEHZ	
Sound power levels on cooling mode	Inside	dB	49	49	50	50	56	56	
	Outside	dB	59	59	60	60	63	63	
Refrigerant			R410A GWP 1975 ⁽¹⁾						
Cooling	SEER		8.5	8.5	8.1	8.1	6.5	6.5	
	Energy efficiency class		A+++	A+++	A++	A++	A++	A++	
	Annual electricity consumption ⁽²⁾		kWh/a	102	102	150	150	266	
	Design load		kW	2.5	2.5	3.5	3.5	5.0	
Heating (Average season/ Warmer season)	SCOP		4.5/5.1	4.4/5.4	4.4/5.3	4.3/5.4	4.3/5.8	4.2/5.7	
	Energy efficiency class		A+/A+++	A+/A+++	A+/A+++	A+/A+++	A+/A+++	A+/A+++	
	Annual electricity consumption ⁽²⁾		kWh/a	1059/511	1104/490	1110/499	1158/510	1406/579	1467/603
	Design load		kW	3.4 (-10°C)/1.9 (2°C)	3.5 (-10°C)/1.9 (2°C)	3.5 (-10°C)/1.9 (2°C)	3.6 (-10°C)/2.0 (2°C)	4.4 (-10°C)/2.4 (2°C)	4.5 (-10°C)/2.5 (2°C)
	Declared Capacity	at reference design temperature	kW	3.4 (-10°C)/1.9 (2°C)	3.5 (-10°C)/1.9 (2°C)	3.5 (-10°C)/1.9 (2°C)	3.6 (-10°C)/2.0 (2°C)	4.4 (-10°C)/2.4 (2°C)	4.5 (-10°C)/2.5 (2°C)
		at bivalent temperature	kW	3.4 (-10°C)/1.9 (2°C)	3.5 (-10°C)/1.9 (2°C)	3.5 (-10°C)/1.9 (2°C)	3.6 (-10°C)/2.0 (2°C)	4.4 (-10°C)/2.4 (2°C)	4.5 (-10°C)/2.5 (2°C)
		at operation limit temperature	kW	2.4 (-15°C)/2.4 (-15°C)	1.6 (-25°C)/1.6 (-25°C)	2.9 (-15°C)/2.9 (-15°C)	2.3 (-25°C)/2.3 (-25°C)	6.0 (-15°C)/6.0 (-15°C)	3.3 (-25°C)/3.3 (-25°C)
	Back up heating capacity		kW	0.0 (-10°C)/0.0 (2°C)					

Type			Inverter Heat Pump						
Model	Indoor		MSZ-FH25VE		MSZ-FH35VE		MSZ-FH50VE		
	Outdoor		MUZ-FH25VE	MUZ-FH25VEHZ	MUZ-FH35VE	MUZ-FH35VEHZ	MUZ-FH50VE	MUZ-FH50VEHZ	
Sound power levels on cooling mode	Inside	dB	58	58	58	58	60	60	
	Outside	dB	60	60	61	61	64	64	
Refrigerant			R410A GWP 1975 ⁽¹⁾						
Cooling	SEER		9.1	9.1	8.9	8.9	7.2	7.2	
	Energy efficiency class		A+++	A+++	A+++	A+++	A++	A++	
	Annual electricity consumption ⁽²⁾		kWh/a	96	96	138	138	244	244
	Design load		kW	2.5	2.5	3.5	3.5	5.0	5.0
Heating (Average season/ Warmer season)	SCOP		5.1/6.3	4.9/6.3	5.1/6.5	4.8/6.5	4.6/5.7	4.2/5.9	
	Energy efficiency class		A+++A+++	A++A+++	A+++A+++	A++A+++	A++A+++	A+/A+++	
	Annual electricity consumption ⁽²⁾		kWh/a	819/376	924/397	986/429	1173/471	1372/614	2006/787
	Design load		kW	3.0 (-10°C)/1.7 (2°C)	3.2 (-10°C)/1.8 (2°C)	3.6 (-10°C)/2.0 (2°C)	4.0 (-10°C)/2.2 (2°C)	4.5 (-10°C)/2.5 (2°C)	6.0 (-10°C)/3.3 (2°C)
	Declared Capacity	at reference design temperature	kW	3.0 (-10°C)/1.7 (2°C)	3.2 (-10°C)/1.8 (2°C)	3.6 (-10°C)/2.0 (2°C)	4.0 (-10°C)/2.2 (2°C)	4.5 (-10°C)/2.5 (2°C)	6.0 (-10°C)/3.3 (2°C)
		at bivalent temperature	kW	3.0 (-10°C)/1.7 (2°C)	3.2 (-10°C)/1.8 (2°C)	3.6 (-10°C)/2.0 (2°C)	4.0 (-10°C)/2.2 (2°C)	4.5 (-10°C)/2.5 (2°C)	6.0 (-10°C)/3.3 (2°C)
		at operation limit temperature	kW	2.5 (-15°C)/2.5 (-15°C)	1.7 (-25°C)/1.7 (-25°C)	3.2 (-15°C)/3.2 (-15°C)	2.6 (-25°C)/2.6 (-25°C)	5.2 (-15°C)/5.2 (-15°C)	3.8 (-25°C)/3.8 (-25°C)
	Back up heating capacity		kW	0.0 (-10°C)/0.0 (2°C)					

Type			Inverter Heat Pump							
Model	Indoor		MSZ-EF25VE		MSZ-EF35VE		MSZ-EF42VE		MSZ-EF50VE	
	Outdoor		MUZ-EF25VE	MUZ-EF25VEHZ	MUZ-EF35VE	MUZ-EF35VEHZ	MUZ-EF42VE	MUZ-EF42VEHZ	MUZ-EF50VE	MUZ-EF50VEHZ
Sound power levels on cooling mode	Inside	dB	60	60	60	60	60	60	60	60
	Outside	dB	58	58	61	61	62	62	65	65
Refrigerant			R410A GWP 1975 ⁽¹⁾							
Cooling	SEER		8.5	8.5	8.5	8.5	7.7	7.2		
	Energy efficiency class		A+++	A+++	A+++	A+++	A++	A++		
	Annual electricity consumption ⁽²⁾		kWh/a	103	103	144	144	192	244	
	Design load		kW	2.5	2.5	3.5	3.5	4.2	5.0	
Heating (Average season/ Warmer season)	SCOP		4.7/6.0	4.6/6.0	4.6/5.7	4.5/5.7	4.6/6.0	4.5/5.8		
	Energy efficiency class		A+/A+++	A+/A+++	A+/A+++	A+/A+++	A+/A+++	A+/A+++		
	Annual electricity consumption ⁽²⁾		kWh/a	716/304	730/304	882/396	910/396	1155/491	1309/557	
	Design load		kW	2.4 (-10°C)/1.3 (2°C)	2.4 (-10°C)/1.3 (2°C)	2.9 (-10°C)/1.6 (2°C)	2.9 (-10°C)/1.6 (2°C)	3.8 (-10°C)/2.1 (2°C)	4.2 (-10°C)/2.3 (2°C)	
	Declared Capacity	at reference design temperature	kW	2.4 (-10°C)/1.3 (2°C)	2.4 (-10°C)/1.3 (2°C)	2.9 (-10°C)/1.6 (2°C)	2.9 (-10°C)/1.6 (2°C)	3.8 (-10°C)/2.1 (2°C)	4.2 (-10°C)/2.3 (2°C)	
		at bivalent temperature	kW	2.4 (-10°C)/1.3 (2°C)	2.4 (-10°C)/1.3 (2°C)	2.9 (-10°C)/1.6 (2°C)	2.9 (-10°C)/1.6 (2°C)	3.8 (-10°C)/2.1 (2°C)	4.2 (-10°C)/2.3 (2°C)	
		at operation limit temperature	kW	2.0 (-15°C)/2.0 (-15°C)	1.6 (-20°C)/1.6 (-20°C)	2.4 (-15°C)/2.4 (-15°C)	1.7 (-20°C)/1.7 (-20°C)	3.4 (-15°C)/3.4 (-15°C)	3.5 (-15°C)/3.5 (-15°C)	
	Back up heating capacity		kW	0.0 (-10°C)/0.0 (2°C)						

Type			Inverter Heat Pump								
Model	Indoor		MSZ-SF25VE2		MSZ-SF35VE2		MSZ-SF42VE2		MSZ-SF50VE2		
	Outdoor		MUZ-SF25VE	MUZ-SF25VEHZ	MUZ-SF35VE	MUZ-SF35VEHZ	MUZ-SF42VE	MUZ-SF42VEHZ	MUZ-SF50VE	MUZ-SF50VEHZ	
Sound power levels on cooling mode	Inside	dB	57	57	57	57	57	57	58	58	
	Outside	dB	58	58	62	62	63	63	65	65	
Refrigerant			R410A GWP 1975 ⁽¹⁾								
Cooling	SEER		7.6	7.6	7.2	7.2	7.5	7.5	7.2	7.2	
	Energy efficiency class		A++	A++	A++	A++	A++	A++	A++	A++	
	Annual electricity consumption ⁽²⁾		kWh/a	116	116	171	171	196	196	246	246
	Design load		kW	2.5	2.5	3.5	3.5	4.2	4.2	5.0	5.0
Heating (Average season/ Warmer season)	SCOP		4.4/5.4	4.3/5.4	4.4/5.4	4.3/5.4	4.4/5.8	4.3/5.8	4.4/5.7	4.3/5.7	
	Energy efficiency class		A+/A+++	A+/A+++	A+/A+++	A+/A+++	A+/A+++	A+/A+++	A+/A+++	A+/A+++	
	Annual electricity consumption ⁽²⁾		kWh/a	764/337	790/337	923/418	948/417	1215/507	1242/507	1351/563	1380/563
	Design load		kW	2.4 (-10°C)/1.3 (2°C)	2.4 (-10°C)/1.3 (2°C)	2.9 (-10°C)/1.6 (2°C)	2.9 (-10°C)/1.6 (2°C)	3.8 (-10°C)/2.1 (2°C)	3.8 (-10°C)/2.1 (2°C)	4.2 (-10°C)/2.3 (2°C)	4.2 (-10°C)/2.3 (2°C)
	Declared Capacity	at reference design temperature	kW	2.4 (-10°C)/1.3 (2°C)	2.4 (-10°C)/1.3 (2°C)	2.9 (-10°C)/1.6 (2°C)	2.9 (-10°C)/1.6 (2°C)	3.8 (-10°C)/2.1 (2°C)	3.8 (-10°C)/2.1 (2°C)	4.2 (-10°C)/2.3 (2°C)	4.2 (-10°C)/2.3 (2°C)
		at bivalent temperature	kW	2.4 (-10°C)/1.3 (2°C)	2.4 (-10°C)/1.3 (2°C)	2.9 (-10°C)/1.6 (2°C)	2.9 (-10°C)/1.6 (2°C)	3.8 (-10°C)/2.1 (2°C)	3.8 (-10°C)/2.1 (2°C)	4.2 (-10°C)/2.3 (2°C)	4.2 (-10°C)/2.3 (2°C)
		at operation limit temperature	kW	2.0 (-15°C)/2.0 (-15°C)	1.6 (-20°C)/1.6 (-20°C)	2.2 (-15°C)/2.2 (-15°C)	1.6 (-20°C)/1.6 (-20°C)	3.4 (-15°C)/3.4 (-15°C)	2.2 (-20°C)/2.5 (-20°C)	3.4 (-15°C)/3.4 (-15°C)	2.3 (-20°C)/2.3 (-20°C)
	Back up heating capacity		kW	0.0 (-10°C)/0.0 (2°C)							

Type			Inverter Heat Pump																	
Model	Indoor		MSZ-GF60VE		MSZ-GF71VE		MSZ-HJ25VA		MSZ-HJ35VA		MSZ-HJ50VA		MSZ-HJ60VA		MSZ-HJ71VA		MSZ-DM25VA		MSZ-DM35VA	
	Outdoor		MUZ-GF60VE	MUZ-GF71VE	MUZ-HJ25VA	MUZ-HJ35VA	MUZ-HJ50VA	MUZ-HJ60VA	MUZ-HJ71VA	MUZ-DM25VA	MUZ-DM35VA									
Sound power levels on cooling mode	Inside	dB	65	65	57	60	60	65	65	57	60									
	Outside	dB	65	65	63	64	64	65	66	63	64									
Refrigerant			R410A GWP 1975 ⁽¹⁾																	
Cooling	SEER		6.8	6.8	5.1	5.1	6.0	6.0	5.6	5.8	5.7									
	Energy efficiency class		A++	A++	A	A	A+	A+	A+	A+	A+									
	Annual electricity consumption ⁽²⁾		kWh/a	311	364	171	212	292	354	441	149	190								
	Design load		kW	6.1	7.1	2.5	3.1	5.0	6.1	7.1	2.5	3.1								
Heating (Average season/ Warmer season)	SCOP		4.3/5.3	4.2/5.4	3.8/4.3	3.8/4.3	4.2/5.5	4.1/5.1	4.0/4.9	4.1/4.7	4.1/4.7									
	Energy efficiency class		A+/A+++	A+/A+++	A/A+	A/A+	A+/A+++	A+/A+++	A+/A+++	A+/A+++	A+/A+++									
	Annual electricity consumption ⁽²⁾		kWh/a	1499/664	2204/963	698/356	885/426	1267/539	1544/674	1854/813	647/325	809/386								
	Design load		kW	4.6 (-10°C)/2.5 (2°C)	6.7 (-10°C)/3.7 (2°C)	1.9 (-10°C)/1.1 (2°C)	2.4 (-10°C)/1.3 (2°C)	3.8 (-10°C)/2.1 (2°C)	4.6 (-10°C)/2.5 (2°C)	5.4 (-10°C)/2.9 (2°C)	1.9 (-10°C)/1.1 (2°C)	2.4 (-10°C)/1.3 (2°C)								
	Declared Capacity	at reference design temperature	kW	4.6 (-10°C)/2.5 (2°C)	6.7 (-10°C)/3.7 (2°C)	1.9 (-10°C)/1.1 (2°C)	2.4 (-10°C)/1.3 (2°C)	3.8 (-10°C)/2.1 (2°C)	4.6 (-10°C)/2.5 (2°C)	5.4 (-10°C)/2.9 (2°C)	1.9 (-10°C)/1.1 (2°C)	2.4 (-10°C)/1.3 (2°C)								
		at bivalent temperature	kW	4.6 (-10°C)/2.5 (2°C)	6.7 (-10°C)/3.7 (2°C)	1.9 (-10°C)/1.1 (2°C)	2.4 (-10°C)/1.3 (2°C)	3.8 (-10°C)/2.1 (2°C)	4.6 (-10°C)/2.5 (2°C)	5.4 (-10°C)/2.9 (2°C)	1.9 (-10°C)/1.1 (2°C)	2.4 (-10°C)/1.3 (2°C)								
		at operation limit temperature	kW	3.7 (-15°C)/3.7 (-15°C)	5.4 (-15°C)/5.4 (-15°C)	1.9 (-10°C)/1.9 (10°C)	2.4 (-10°C)/2.4 (10°C)	3.8 (-10°C)/3.8 (10°C)	4.6 (-10°C)/4.6 (10°C)	5.4 (-10°C)/5.4 (10°C)	1.9 (-10°C)/1.9 (10°C)	2.4 (-10°C)/2.4 (10°C)								
	Back up heating capacity		kW	0.0 (-10°C)/0.0 (2°C)	0.0 (-10°C)/0.0 (2°C)	0.0 (-10°C)/0.0 (2°C)	0.0 (-10°C)/0.0 (2°C)	0.0 (-10°C)/0.0 (2°C)	0.0 (-10°C)/0.0 (2°C)	0.0 (-10°C)/0.0 (2°C)	0.0 (-10°C)/0.0 (2°C)	0.0 (-10°C)/0.0 (2°C)								

(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 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.