



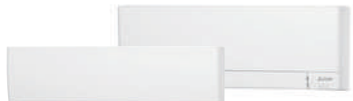








# M



SERIES



# SELECTION

Choose the model that best matches room conditions.

SELECT SERIES		
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.		
<b>Wall-mounted Units</b>		
<b>MSZ-RW SERIES</b> <b>R32</b> <b>R410A</b> *2  25/35 SEER A+++ SCOP A+++ MXZ connection	<b>MSZ-LN SERIES</b> <b>R32</b> <b>R410A</b> *2  25/35 SEER A+++ SCOP A+++ MXZ connection	<b>MSZ-AY SERIES</b> <b>R32</b> <b>R410A</b> *2 MSZ-AY25/35/42/50VGK(P)  MSZ-AY15/20VGK(P) 25/35 SEER A+++ SCOP A+++ MXZ connection
<b>MSZ-AP SERIES</b> <b>R32</b> <b>R410A</b> *1  60 SEER A+++ SCOP A+++ MXZ connection	<b>MSZ-E SERIES</b> <b>R32</b> <b>R410A</b> *1  25/35 SEER A+++ SCOP A+++ MXZ connection	<b>MSZ-BT SERIES</b> <b>R32</b>  25/35 SEER A+++ SCOP A+++ MXZ connection
<b>MSZ-HR SERIES</b> <b>R32</b> MSZ-HR60/71VF(K)  MSZ-HR25-50VF(K) 60 SEER A+++ SCOP A+++ MXZ connection	<b>MSZ-DW SERIES</b> <b>R32</b>  35 SEER A+++ SCOP A+++ MXZ connection	<b>MSY-TP SERIES</b> <b>R32</b>  35 SEER A+++
<b>Floor-standing</b>		<b>Energy Rank</b> SEER A SCOP A <b>MXZ connection</b> Compatible for connection to MXZ Series system <b>R32</b> R32 Refrigerant <b>R410A</b> R410A Refrigerant *1 R410A is for MXZ and PUMY connection. *2 R410A is for PUMY connection.
<b>MFZ SERIES</b> <b>R32</b>  60 SEER A+++ SCOP A+++ MXZ connection	<b>Cassette Units</b> <b>MLZ SERIES</b> <b>R32</b>  MLZ-KP25/35/50VF MLZ-KY20VG MXZ connection	

SELECT OUTDOOR UNIT		
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.		
<b>Heater Installed</b> MUZ-AY25/35/42/50VGH MUZ-EF25/35VGH MUZ-SF25/35/42/50VEH  MUZ-LN25/35VG	<b>Hyper Heating</b> MUZ-RW25/35/50VGHZ MUZ-LN25/35/50VGHZ MUZ-FT25/35/50VGHZ MUZ-FH25/35/50VEHZ MUZ-KW25/35/50/60VGHZ  MUZ-LN50VG2	<b>Selecting a Heater-equipped Model</b> 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.

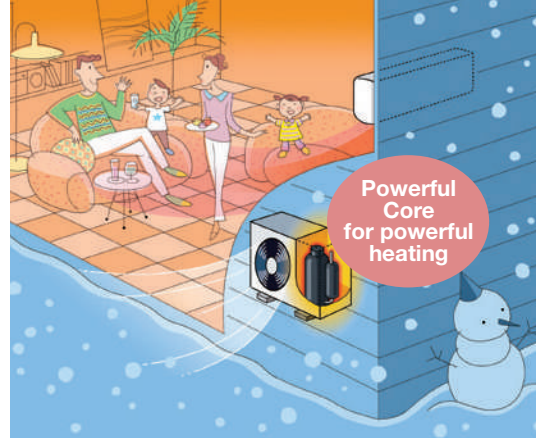
# MSZ-RW SERIES

R32 R410A  
Single / MXZ, PUMY PUMY

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



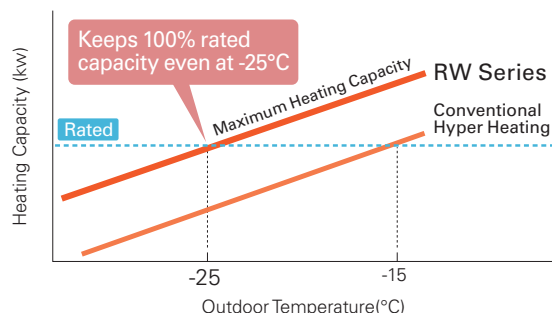
## Heating Performance

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

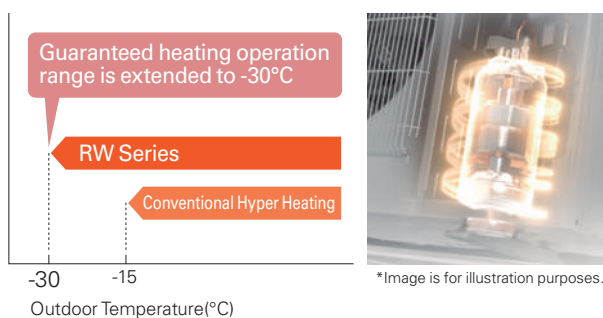
### High Energy Efficiency

RW25	A+++	SCOP 5.2
RW35	A+++	SCOP 5.1
RW50	A++	SCOP 4.6

## Improved Heating Capacity

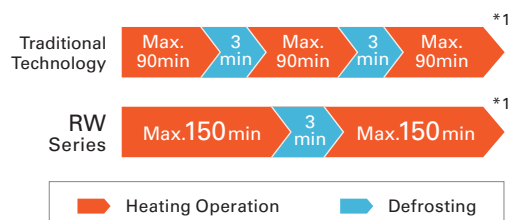


## Wider Heating Operation Range



## Longer Continuous Heating Operation

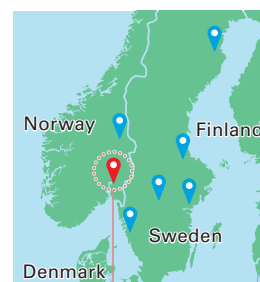
RW series with a high frost-detecting technology, made it possible to provide maximum continuous heating operation as long as 150 minutes with less frequent defrosting operations, maintaining a comfortable indoor environment in a long term.



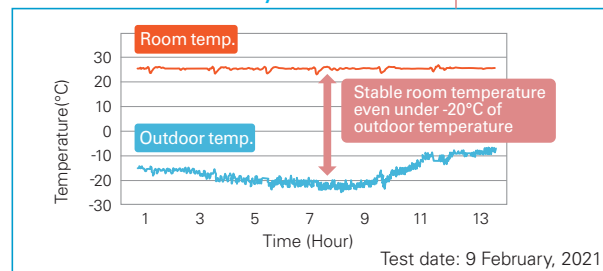
\*1 The time for heating and defrosting operation depends on the environmental conditions.

## 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.



\*Image is for illustration purposes.

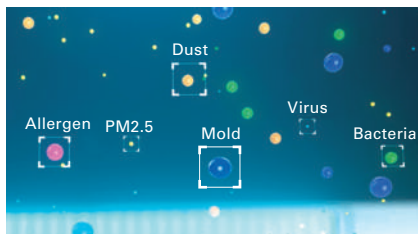
## Circulator Mode

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

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.



\*Images are for illustration purposes.

Virus (Airborne)

## 99% inhibited<sup>\*1</sup>

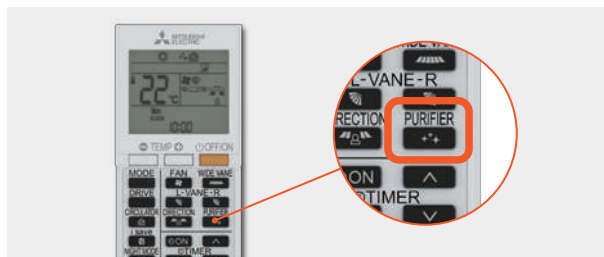
<sup>\*1</sup> Tested Organization: vrc. Center, SMC Test Report No: 28-002 Test Method: JEM1467 Test result: Neutralised 99% of Influenza A virus in 72 minutes in a 25m<sup>3</sup> test space.

<sup>\*2</sup> 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%.

We have confirmed Plasma Quad Plus inhibits 99.8% of adhered COVID-19. <sup>\*2</sup>

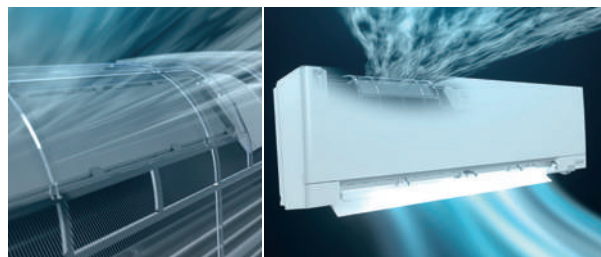
## Quick Air Purifying Set

If you press "PURIFIER" button when the unit is turned off, Plasma Quad Plus starts to operate with a fan mode and purifies the air in your room.



## Deodorising Filter

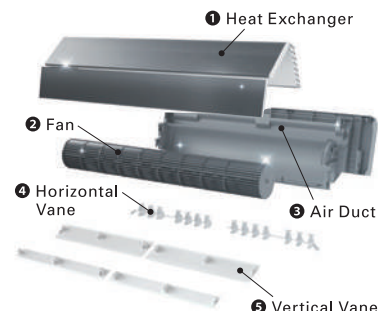
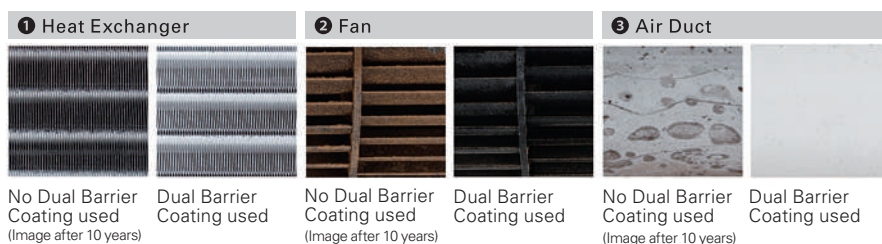
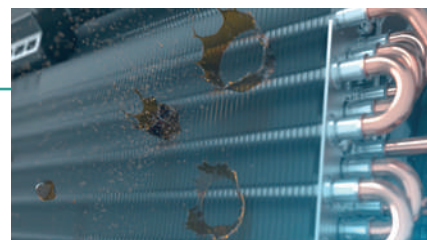
The catalyst in Deodorising Filter denatures the odorous components and destroys them from the source of the odour, quickly delivering fresh air to your room.



## Dual Barrier Coating

**SIAA** <sup>\*1</sup>  
Anti Fungus  
JP0512075X0001C  
(Fan, Air duct)

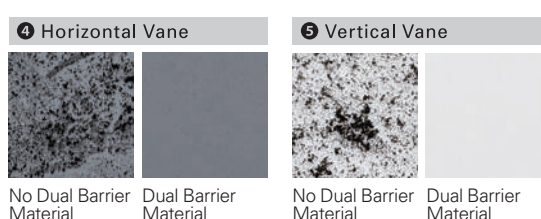
Mitsubishi Electric's Dual Barrier Coating prevents dust and greasy dirt from accumulating on the inner surface of the indoor unit; keeping your air conditioner clean. Two barrier coating prevents hydrophilic dirt penetration, and "hydrophilic particles" prevent hydrophobic dirt from getting into the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



## Dual Barrier Material

**SIAA** <sup>\*2</sup>  
Anti Fungus  
JP0512075X0001C  
(Horizontal Vane, Vertical Vane)

Dual Barrier Material performs the same antifouling effect as Dual Barrier Coating, and it is kneaded into horizontal vane and vertical vane material which are hard to apply coating to. Combined with Dual Barrier Coating, the whole air passage of indoor unit is kept clean all year round.



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

<sup>\*1</sup> <sup>\*2</sup> 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.html](https://www.kohkin.net/en_index.html)

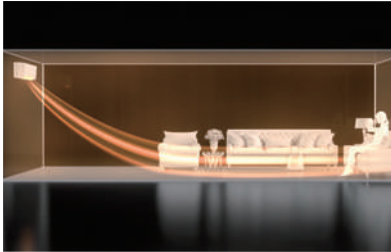


## Drive Mode Selector

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.

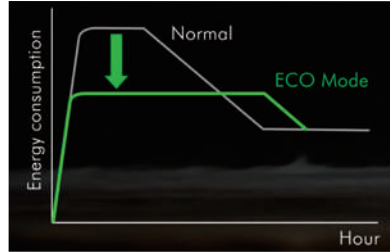
### Wide Room Mode

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



### Eco Mode

Suppresses a sharp increase in energy consumption by a gradual start-up operation.



### Quiet Mode

Lowers operation noise level, creating a quieter and peaceful environment.



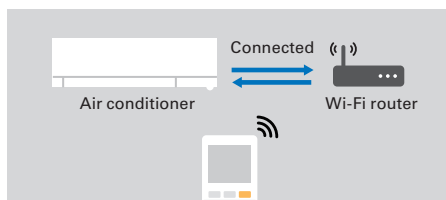
## Built-in Wi-Fi & App Control

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.



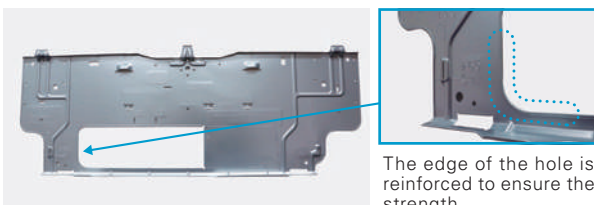
## Remote Controller with Backlight

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

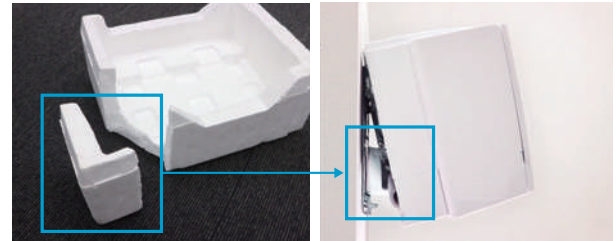
With a hole as default in the center of the back plate, the piping can be easily taken out from the back. The edge of the hole is reinforced to ensure the strength.



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

## Spacer

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



## Indoor Unit / Remote Controller

<White>



MSZ-RW25/35/50VG



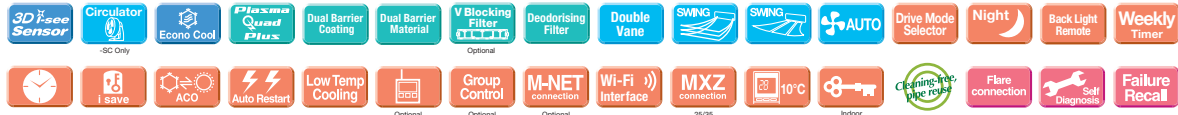
## Outdoor Unit



MUZ-RW25/35VGHZ



MUZ-RW50VGHZ



Type			Inverter Heat Pump			
Indoor Unit			MSZ-RW25VG	MSZ-RW35VG	MSZ-RW50VG	
Outdoor Unit			MUZ-RW25VGHZ	MUZ-RW35VGHZ	MUZ-RW50VGHZ	
Refrigerant			R32 <sup>(*)1</sup>			
Power Supply	Source		Outdoor Power supply			
	Outdoor (V/Phase/Hz)		230/Single/50			
Cooling	Design Load	kW	2.5	3.5	5.0	
	Annual Electricity Consumption <sup>(*)2</sup>	kWh/a	78	130	230	
	SEER <sup>(*)4</sup>		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	
Heating (Average Season) <sup>(*)5</sup>	Design Load	kW	3.2	4.0	6.0	
	Declared Capacity	at reference design temperature	kW	3.2 (-10°C)	4.0 (-10°C)	6.0 (-10°C)
		at bivalent temperature	kW	3.2 (-10°C)	4.0 (-10°C)	6.0 (-10°C)
		at operation limit temperature	kW	2.6 (-25°C)	2.6 (-25°C)	4.0 (-25°C)
	Back Up Heating Capacity	kW	0.0	0.0	0.0	
	Annual Electricity Consumption <sup>(*)2</sup>	kWh/a	856	1097	1800	
	SCOP <sup>(*)4</sup>		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	
Operating Current (max)		A	9.8	11.2	15.2	
Indoor Unit	Input	Rated	kW	0.021	0.041	
	Operating Current (max)	A	0.21	0.22	0.37	
	Dimensions	H × W × D	mm	305 - 998 - 247	305 - 998 - 247	
	Weight	kg	14.5	14.5	14.5	
	Air Volume (SLO-Lo-Mid-Hi-SHi <sup>(*)3</sup> )	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
		Heating	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) (SLO-Lo-Mid-Hi-SHi <sup>(*)3</sup> )	Cooling	dB(A)	19 - 23 - 29 - 36 - 42	19 - 24 - 29 - 36 - 43	26 - 30 - 34 - 39 - 45
		Heating	dB(A)	19 - 25 - 30 - 36 - 41	19 - 25 - 30 - 36 - 42	25 - 32 - 37 - 41 - 46
Sound Level (PWL)	dB(A)	58	59	59		
Outdoor Unit	Dimensions	H × W × D	mm	714 - 800 - 285	880 - 840 - 330	
	Weight	kg	39.5	40	54	
	Air Volume	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 (max)	A	9.6	11.0	14.8	
	Breaker Size	A	10	12	16	
Ext. Piping	Diameter	Liquid / Gas	mm	6.35/9.52	6.35/9.52	
	Max. Length	Out-In	m	20	30	
	Max. Height	Out-In	m	12	15	
Guaranteed Operating Range [Outdoor]		Cooling	°C	-10 ~ +46	-10 ~ +46	
		Heating	°C	-30 ~ +24	-30 ~ +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 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 CO<sub>2</sub> over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

(\*)2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(\*)3 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 53-54 for heating (warmer season) specifications.

MSZ-LN18/25/35/50/60VG2

**R32**  
Single / MXZ, PUMY  
**R410A**  
PUMY



GOOD DESIGN AWARD 2016  
**BEST 100**

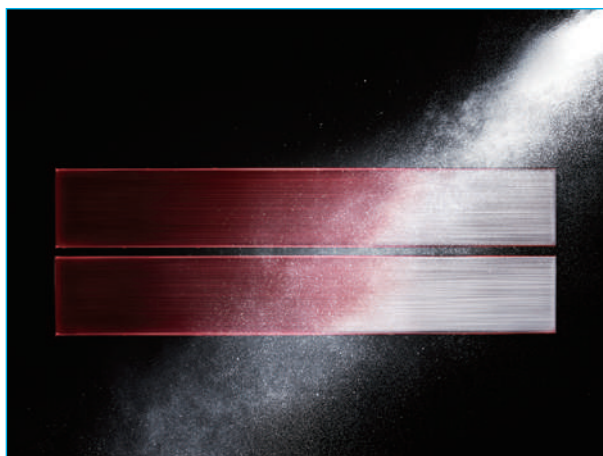
# MSZ-LN SERIES

Developed to complement modern interior room décor, the LN Series is available in four colours specially chosen to blend in naturally wherever installed. Not only the sophisticated design, but also the optimum energy efficiency and operational comfort add even more value to this series.



## Luminous and Luxurious Design

Natural White, Pearl White, Ruby Red, and Onyx Black. LN Series indoor units are available in four colours to match various lifestyles. The appearance of the indoor unit differs depending on the lighting in the room, attracting the attention of everyone that enters the room.



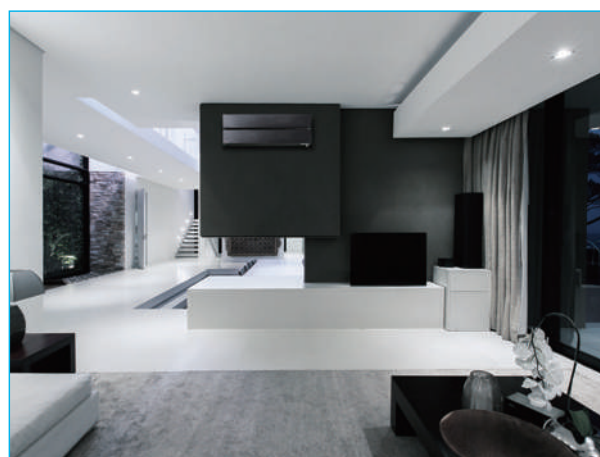
Master craftsmanship painting technology has resulted in a refined design, giving the finish deep colour and a premium quality feel.



Pearl White blends in with any interior.



Ruby Red gives an accent to the room, affording timeless elegance to sophisticated interiors.



Onyx Black matches darker interiors, creating a comfortable environment.

## LED Backlight Remote Controller

Not only the indoor units, but also the wireless remote controllers come in four colours as well. Each remote controller matches the indoor unit. Even the textures are the same.

The setting can be easily checked in the dark thanks to LED backlight.



Pearl White



Ruby Red



Onyx Black

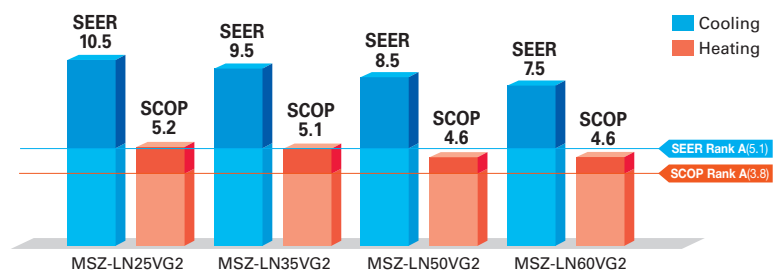


Natural White

## High Energy Efficiency

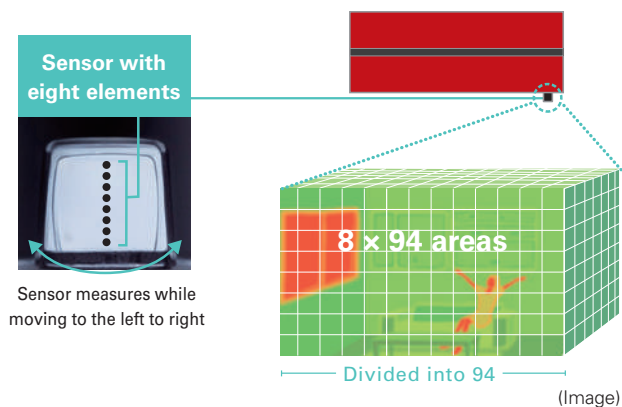


Optimum cooling/heating performance is another feature for the LN series. Models from capacities 25 to 50 have achieved the "Rank A+++" for SEER, and models for capacities 25 and 35 have achieved the "Rank A+++" for SCOP as well.



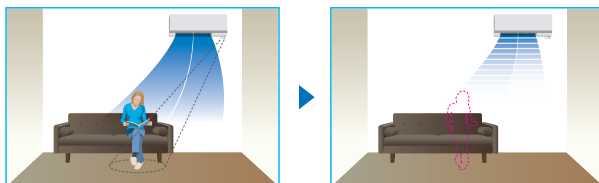
## 3D i-see Sensor

The LN 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.



### No occupancy energy-saving mode

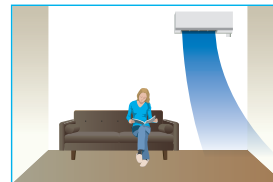
The sensors detect whether there are people in the room. When no-one is in the room, the unit automatically switches to energy-saving mode.



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.

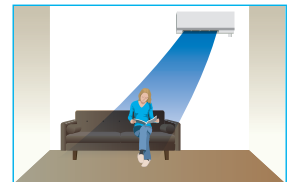
### Indirect Airflow

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.



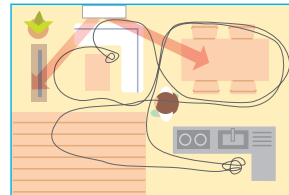
### Direct Airflow

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



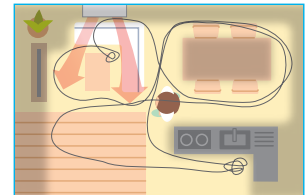
### Even Airflow \*LN Series only

Normal swing mode



The airflow is distributed equally throughout the room, even to spaces where there is no human movement.

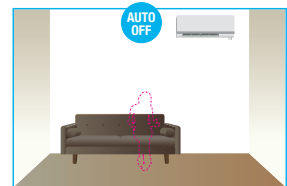
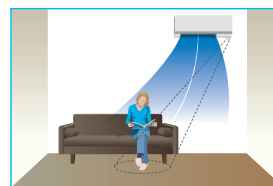
Even airflow mode



The 3D i-see sensor memorizes human movement and furniture positions, and efficiently distributes airflow.

### No occupancy Auto-OFF mode \*LN Series only

The sensors detect whether or not there are people in the room. When there is no one in the room, the unit turns off automatically.

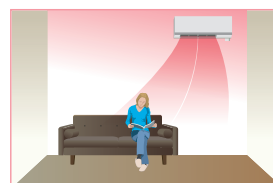


## Circulator Operation

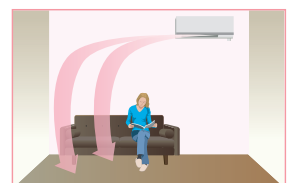
(MSZ-LN18/25/35/50/60VG-SC Scandinavian model)

In case the indoor temperature reaches the setting temperature, the outdoor unit stops and the indoor unit starts FAN operation to circulate the indoor air.

The outdoor unit starts operation automatically when the indoor temperature drops below the setting temperature.



If the heating operation is continued, the warm air is formed around ceiling.



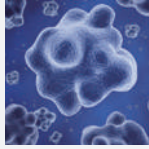
This operation can help to circulate and rene warm air.



# Plasma Quad Plus

Plasma Quad Plus is a plasma-based filter system that effectively removes six kinds of air pollutants. Plasma Quad Plus captures mold and allergens more effectively than Plasma Quad. It can also capture PM2.5 and particles smaller than 2.5µm, creating healthy living spaces for all.

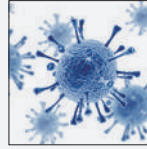
## Bacteria



Test results have confirmed that Plasma Quad Plus neutralizes 99% of bacteria in 162 minutes in a 25m<sup>3</sup> test space.

<Test No.> KRCES-Bio. Test Report No. 2016-0118

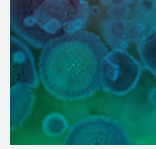
## Viruses



Test results have confirmed that Plasma Quad Plus neutralizes 99% of virus particles in 72 minutes in a 25m<sup>3</sup> test space.

<Test No.> vrc.center, SMC No. 28-002

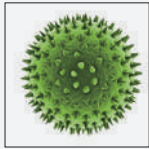
## Molds



Test results have confirmed that Plasma Quad Plus neutralizes 99% of mold in 135 minutes in a 25m<sup>3</sup> test space.

<Test No.> Japan Food Research Laboratories Test Report No. 16069353001-0201

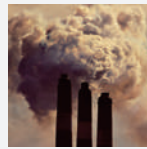
## Allergens



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 Plus neutralizes 98% of cat fur and pollen.

<Test No.> ITEA Report No. T1606028

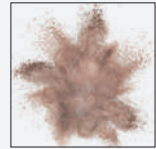
## PM2.5



Test results have confirmed that Plasma Quad Plus removes 99% of PM2.5 in 145 minutes in a 28m<sup>3</sup> test space.

<In-company investigation>

## Dust



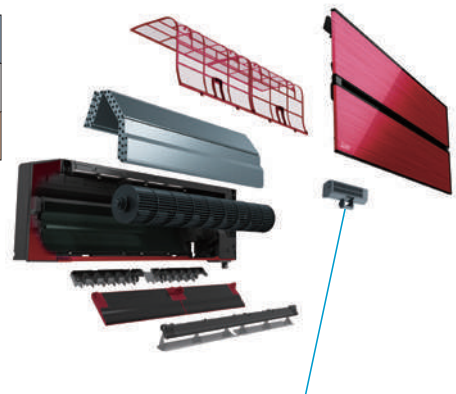
Test results have confirmed that Plasma Quad Plus removes 99.7% of dust and mites.

<Test No.> ITEA Report No. T1606028

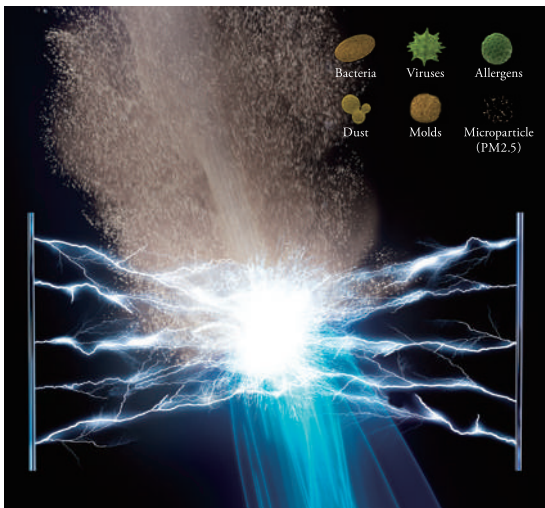
Model	Name	Method	Bacteria	Viruses	Molds	Allergens	Dust	PM2.5*
FH Series	Plasma Quad	One-Stage Plasma	A	A	B	B	C	
LN Series	Plasma Quad Plus	Two-Stage Plasma	A	A	A	A	A	A

A: Highly effective  
B: Effective  
C: Partially effective

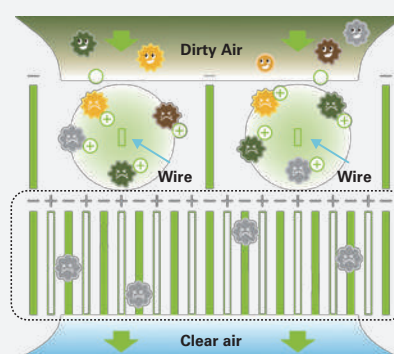
\*PM2.5:  
Particles smaller than 2.5µm



## Image of Plasma Quad Plus



## Principle of Plasma Quad Plus



Dust, PM2.5  
 Viruses Bacteria  
 Mold Allergens

### 1st stage

- Make plasma.
- Break mold and allergens. Inhibit viruses.
- Dust and PM2.5 given an electrical charge (+).

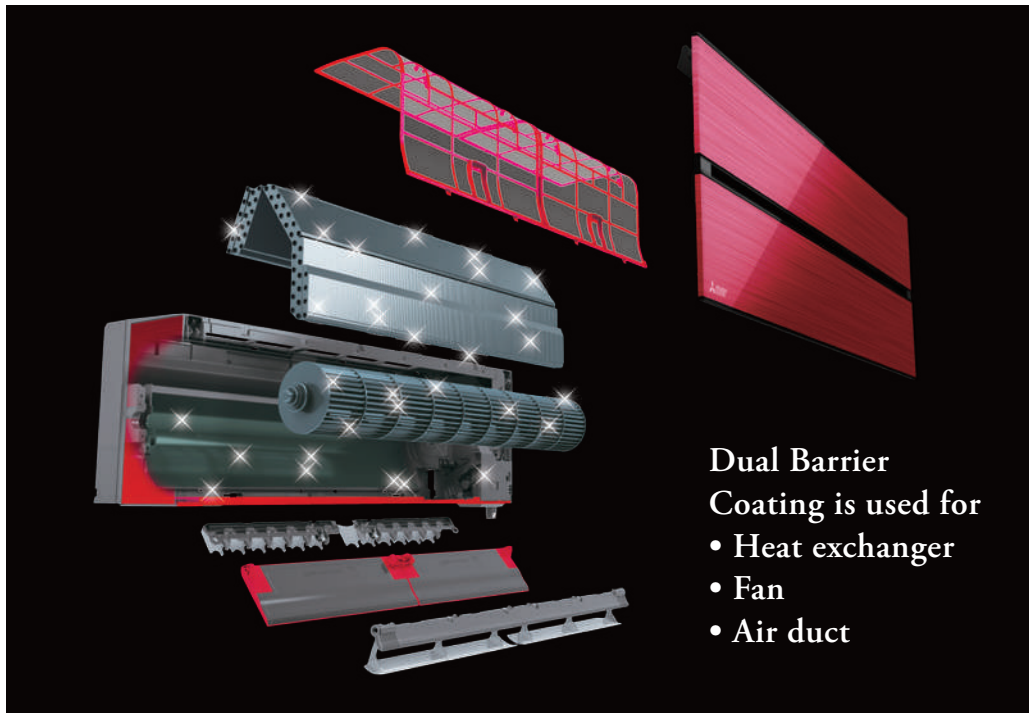
### 2nd stage

- Make a strong electrical field.
- The charged dust and PM2.5 (+) are absorbed in the strong electrical field (-).



## Dual Barrier Coating

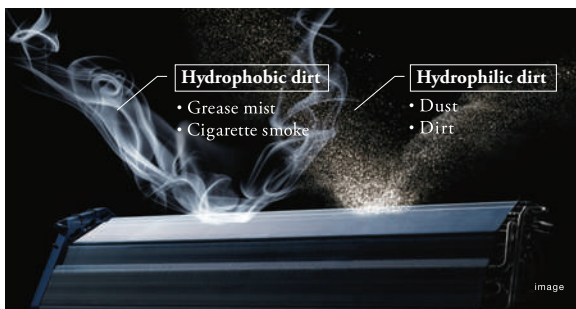
A two-barrier coating prevents dust and greasy dirt from getting into the air conditioner.



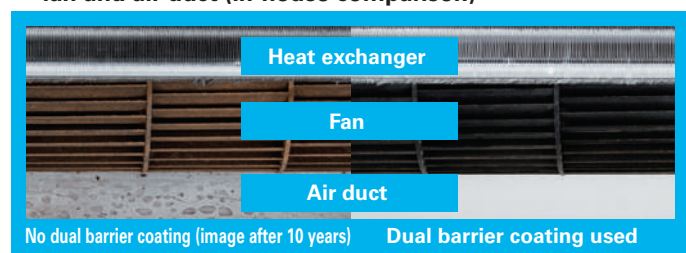
**SIAA**  \*1  
**Anti Fungus**  
 JP0512075X0001C  
 (Fan, Air duct)

### State-of-the-art coating technology

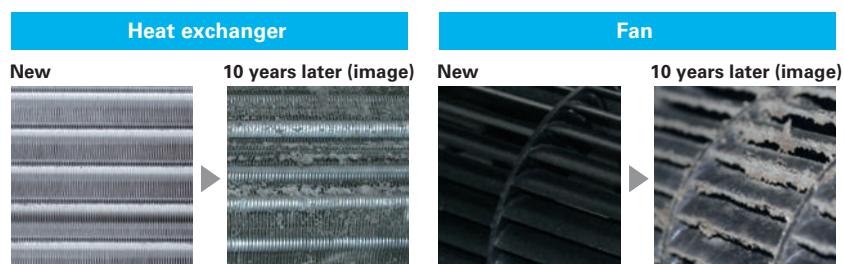
Dirt is generally classified into two groups: hydrophilic dirt such as fiber dust and sand dust, and hydrophobic dirt such as oil and cigarette smoke. Mitsubishi Electric's dual barrier coating works as a two-barrier coating that prevent hydrophilic dirt penetration and "hydrophilic particles" that prevent hydrophobic dirt from getting into the air conditioner. This dual coating on the inner surface keeps the air conditioner clean year-round.



#### Comparison of dirt on heat exchanger, fan and air duct (in-house comparison)



#### The inside of the indoor unit gets dirty after many years of usage.



#### Consequences when the inside of the indoor unit is left dirty

- Deterioration in energy efficiency
- Musty smell from the unit

\*1 Verified by SIAA test method (JIS Z 2911) with No. JP0501014A0002O 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/en\\_siaa.html](https://www.kohkin.net/en_index/en_siaa.html)

## Double Flap

The vanes create various airflows to make each person in the room comfortable. Not only the horizontal vanes, but also the vertical vanes move independently, eliminating hot spots or cold spots throughout the room.

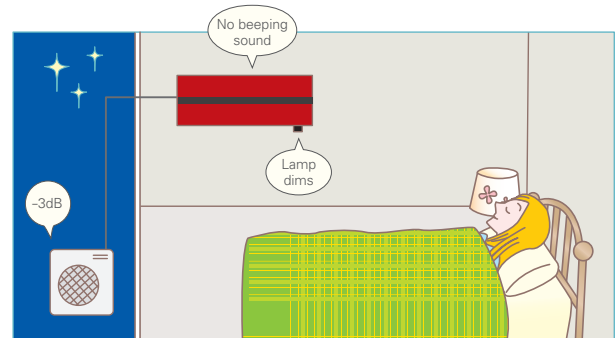


## Night Mode

When Night Mode is activated using the wireless remote controller, air conditioner operation will switch to the following settings.

- The brightness of the operation indicator lamp will become dimmer.
- The beeping sound will be disabled.
- The outdoor operating noise will drop to 3dB lower than the rated operating noise specification.

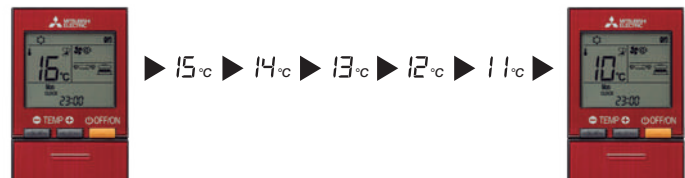
\*The cooling/heating capacity may drop.



## 10°C Heating

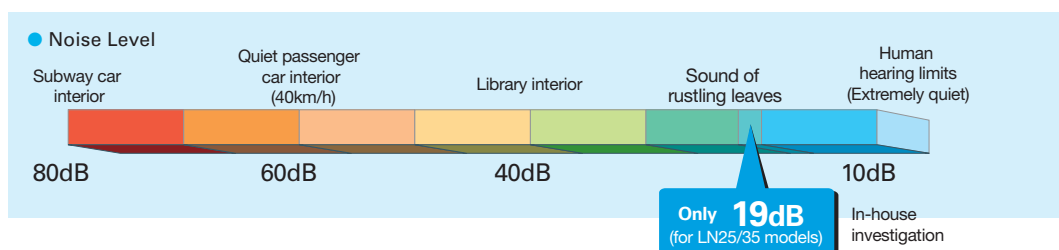
During heating operation, the temperature can be set in 1°C increments down to 10°C.

This function can also be used with the Weekly Timer setting.



## Quiet Operation

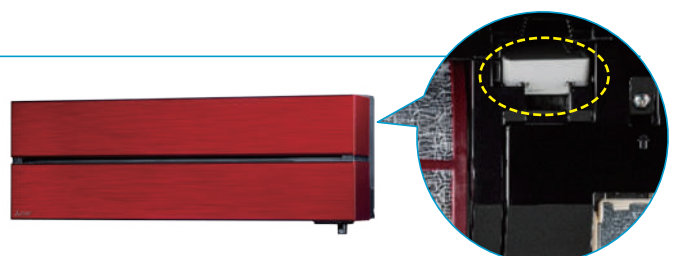
The indoor unit noise level is as low as 19dB for LN25/35 models, offering a peaceful inside environment.



## Built-in Wi-Fi Interface

The indoor unit is equipped with a Wi-Fi Interface inside an exclusive pocket in the unit.

This eliminates the need to install a Wi-Fi interface, and also contributes to the beautiful appearance since the interface is hidden.



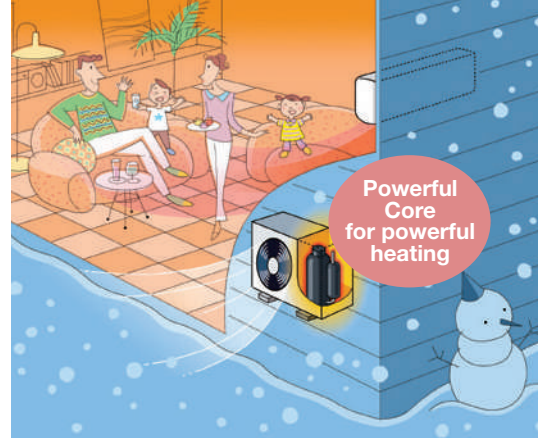
# LN VGHZ SERIES

**R32** Single / MXZ, PUMY  
**R410A** PUMY

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.



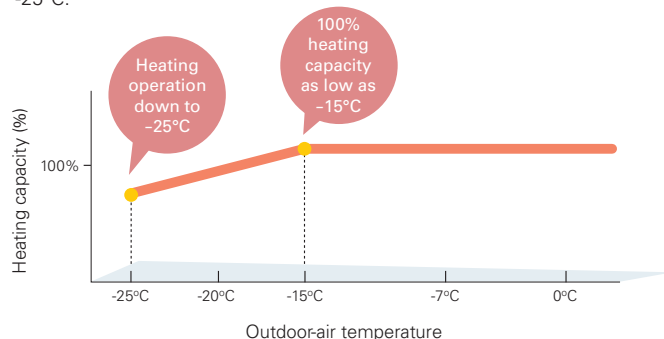
MSZ-LN25/35/50VG2(W)(V)(R)(B)



Powerful Core for powerful heating

## Unparalleled Heating Performance

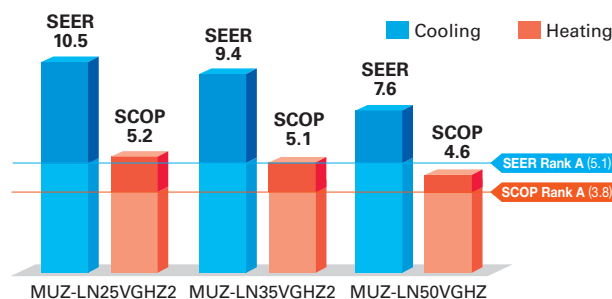
LN Series outdoor units are equipped with a high-output compressor that provides enhanced heating performance under low outdoor temperatures. The heating operation range is extended down to -25°C.



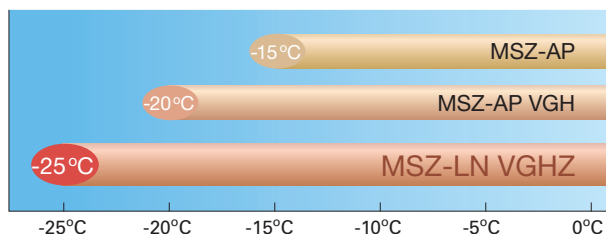
## High Energy Efficiency – Energy Rank of A+ or higher for All Models

DC Inverter

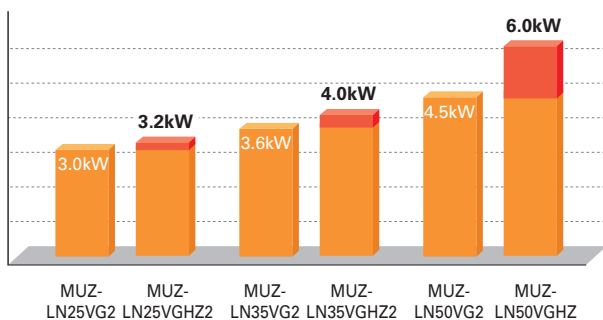
With indoor units that combine functionality, design and capacity and outdoor units equipped with a high-efficiency compressor, the MUZ-LN VGHZ simultaneously achieves high heating capacity and energy-saving performance.



## Operating Range



## Declared Capacity (at reference design temperature)



## 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.

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



Without Freeze-prevention heater



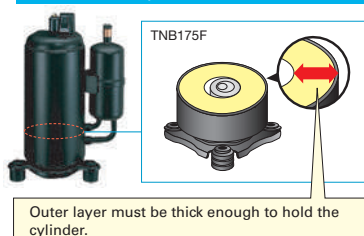
With Freeze-prevention heater

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

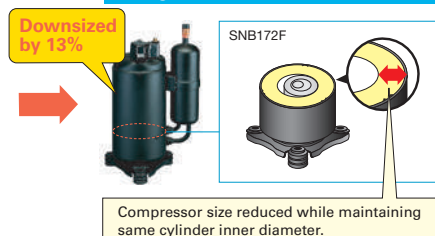
## Compact, Powerful Compressor

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

Compressor fixed using conventional method (Arc spot-welded method)



Compressor fixed using Heat Caulking Fixing Method





# MSZ-LN SERIES



## Indoor Unit / Remote Controller

PUMPY  
R32 R410A



### <Pearl White>



MSZ-LN18/25/35/50/60VG2V

### <Ruby Red>



MSZ-LN18/25/35/50/60VG2R

### <Natural White>



MSZ-LN18/25/35/50/60VG2W

### <Onyx Black>



MSZ-LN18/25/35/50/60VG2B

## Outdoor Unit

R32



MUZ-LN25/35VG2



MUZ-LN50VG2



MUZ-LN60VG2



Type	Inverter Heat Pump				
Indoor Unit	MSZ-LN18VG2	MSZ-LN25VG2	MSZ-LN35VG2	MSZ-LN50VG2	MSZ-LN60VG2
Outdoor Unit	for MXZ connection	MUZ-LN25VG2	MUZ-LN35VG2	MUZ-LN50VG2	MUZ-LN60VG2
Refrigerant	Single: R32 <sup>(1)</sup> / Multi: R410A or R32 <sup>(1)</sup>				
Power Supply	Outdoor Power Supply 230 / Single / 50				
Cooling	Source Outdoor (V / Phase / Hz)				
	Design load	kW	2.5	3.5	5.0
	Annual electricity consumption <sup>(2)</sup>	kWh/a	83	129	205
	SEER <sup>(4)</sup>		10.5	9.5	8.5
	Energy efficiency class		A+++	A+++	A+++
Capacity	Rated	kW	2.5	3.5	5.0
	Min-Max	kW	1.0 - 3.5	0.8 - 4.0	1.0 - 6.0
	Total Input	kW	0.485	0.820	1.380
Heating (Average Season) <sup>(5)</sup>	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)
		at bivalent temperature	kW	3.0 (-10°C)	3.6 (-10°C)
		at operation limit temperature	kW	2.5 (-15°C)	3.2 (-15°C)
	Back up heating capacity	kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)
	Annual electricity consumption <sup>(2)</sup>	kWh/a	807	987	1369
	SCOP <sup>(4)</sup>		5.2	5.1	4.6
	Energy efficiency class		A+++	A+++	A+++
	Capacity	Rated	kW	3.2	4.0
		Min-Max	kW	0.7 - 5.4	0.9 - 6.3
Indoor Unit	Total Input	kW	0.600	0.820	1.480
	Operating Current (Max)	A	7.1	9.9	13.9
	Input	Rated	kW	0.027	0.034
	Operating Current (Max)	A	0.3	0.3	0.4
	Dimensions	H*W*D	mm	307-890-233	307-890-233
	Weight	kg	14.5 (W) 15.5 (V, R, B)	14.5 (W) 15.5 (V, R, B)	15 (W) 16 (V, R, B)
	Air Volume (SLo-Lo-Mid-Hi-SHi) <sup>(3)</sup>	Cooling	m <sup>3</sup> /min	4.7 - 5.9 - 7.1 - 9.2 - 12.4	4.7 - 5.9 - 7.1 - 9.2 - 13.0
		Heating	m <sup>3</sup> /min	4.5 - 6.6 - 7.5 - 11.0 - 13.9	4.5 - 6.6 - 7.5 - 11.0 - 13.9
	Sound Level (SPL)	Cooling	dB(A)	19 - 23 - 29 - 36 - 42	19 - 24 - 29 - 36 - 43
		Heating	dB(A)	19 - 24 - 29 - 38 - 45	19 - 24 - 29 - 38 - 45
Outdoor Unit	Sound Level (PWL)	Cooling	dB(A)	58	59
		Heating	dB(A)	58	59
	Dimensions	H*W*D	mm	550-800-285	550-800-285
	Weight	kg	33	34	40
	Air Volume	Cooling	m <sup>3</sup> /min	34.3	34.3
		Heating	m <sup>3</sup> /min	32.7	32.7
	Sound Level (SPL)	Cooling	dB(A)	46	49
		Heating	dB(A)	49	50
	Sound Level (PWL)	Cooling	dB(A)	60	61
		Heating	dB(A)	61	64
Ext. Piping	Operating Current (Max)	A	6.8	9.6	13.5
	Breaker Size	A	10	10	16
	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52
	Max.Length	Out-In	m	20	30
	Max.Height	Out-In	m	12	15
Guaranteed Operating Range (Outdoor)	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46
	Heating	°C	-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. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO<sub>2</sub> over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

The GWP of R32 is 675 in the IPCC 4th Assessment Report.

(2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(3) SHi: Super High

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

(5) Please see page 53-54 for heating (warmer season) specifications.

# MSZ-LN VGHZ SERIES



## Indoor Unit / Remote Controller



<Pearl White>



MSZ-LN25/35/50VG2V

<Ruby Red>



MSZ-LN25/35/50VG2R

<Natural White>



MSZ-LN25/35/50VG2W

<Onyx Black>



MSZ-LN25/35/50VG2B

## Outdoor Unit



MUZ-LN25/35VGHZ2



MUZ-LN50VGHZ2



Type	Inverter Heat Pump		
Indoor Unit	MSZ-LN25VG2(W)(V)(R)(B)	MSZ-LN35VG2(W)(V)(R)(B)	MSZ-LN50VG2(W)(V)(R)(B)
Outdoor Unit	MUZ-LN25VGHZ2	MUZ-LN35VGHZ2	MUZ-LN50VGHZ2
Refrigerant	R32 (*1)		
Power Supply	Outdoor Power supply		
	230/Single/50		
Cooling	Design Load	kW	2.5
	Annual Electricity Consumption (*2)	kWh/a	83
	SEER (*4)		10.5
	Energy Efficiency Class		A+++
	Capacity		
	Rated	kW	2.5
	Min - Max	kW	0.8 - 3.5
	Total Input	kW	0.485
	Rated	kW	0.820
	Rated	kW	1.380
Heating (Average Season) (*5)	Design Load	kW	3.2 (-10°C)
	Declared Capacity		
	at reference design temperature	kW	3.2 (-10°C)
	at bivalent temperature	kW	4.0 (-10°C)
	at operation limit temperature	kW	3.1 (-25°C)
	Back Up Heating Capacity	kW	0.0 (-10°C)
	Annual Electricity Consumption (*2)	kWh/a	861
	SEER (*4)		5.2
	Energy Efficiency Class		A+++
	Capacity		
Operating Current (max)	Rated	kW	3.2
	Min - Max	kW	0.8 - 6.3
	Total Input	kW	0.600
	Rated	kW	0.820
	Rated	kW	1.480
Indoor Unit	Operating Current (max)	A	9.9
	Rated	A	0.027
	Operating Current (max)	A	0.027
	Rated	A	0.034
	Dimensions	H x W x D	307 - 890 - 233
	Weight	kg	15.5
	Air Volume		
	Cooling	m³/min	4.3 - 5.8 - 7.1 - 8.8 - 11.9
	Heating	m³/min	4.0 - 5.7 - 7.1 - 8.5 - 14.4
	Sound Level (SPL)		
Outdoor Unit	Cooling	dB(A)	19 - 23 - 29 - 36 - 42
	Heating	dB(A)	19 - 24 - 29 - 36 - 45
	Sound Level (PWL)	dB(A)	58
	Dimensions	H x W x D	550 - 800 - 285
	Weight	kg	35
	Air Volume		
	Cooling	m³/min	31.4
	Heating	m³/min	27.4
	Sound Level (SPL)		
	Cooling	dB(A)	46
Ext. Piping	Heating	dB(A)	49
	Sound Level (PWL)	dB(A)	60
	Operating Current (max)	A	9.6
	Rated	A	10.2
	Breaker Size	A	12
	Diameter	Liquid / Gas	6.35/9.52
	Max. Length	m	20
	Max. Height	m	12
	Guaranteed Operating Range		
	Cooling	°C	-10 ~ +46
	Heating	°C	-25 ~ +24

(\*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO<sub>2</sub> over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.

(\*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(\*3) SHi: Super High

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

(\*5) Please see page 53-54 for heating (warmer season/colder season) specifications.

# MSZ-AY SERIES

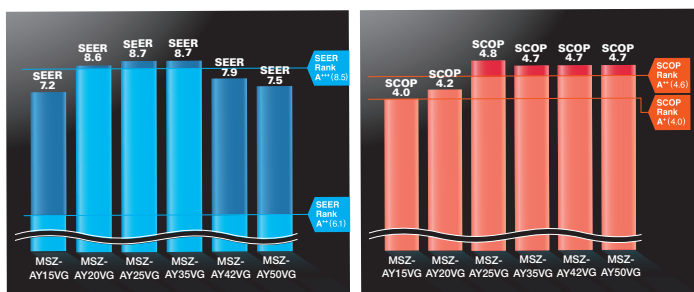
The AY series has an excellent cleanliness feature and ranges to two models: the VGK model comes standard with the V Blocking Filter, which has antiviral, antibacterial, anti-mold, and anti-allergen effects, and the VGKP model comes standard with Plasma Quad Plus, which can collect PM2.5 dust in addition to these effects. The AY series has also been upgraded in terms of quietness, energy efficiency, and ease of installation. Enjoy a comfortable air environment with the AY series.



## High energy saving



The AY series have achieved either the "Rank A+++" or "Rank A++" for SEER and SCOP as energy-savings rating. The high-efficiency air conditioner is eco-friendly and economical.



## Matt and Sophisticated Design

The elegant and sophisticated design has been created to fit in any room, with careful attention to detail in the surface finish and panel angles.



### Rounded corners

The rounded corners give a soft impression that blends in with any room.

### Simple and Compact size

While the plasma is built-in, the angle of the curve is carefully designed to maintain the compact unit.

## Widely Ranged Capacities

Compact and stylish models are available.

The wide range of capacities is designed to match a variety of room types. In particular, the 1.5kW and 2.0kW models are ideal for children's rooms, bedrooms, and highly insulated homes.



MSZ-AY25/35/42/50VGK(P)



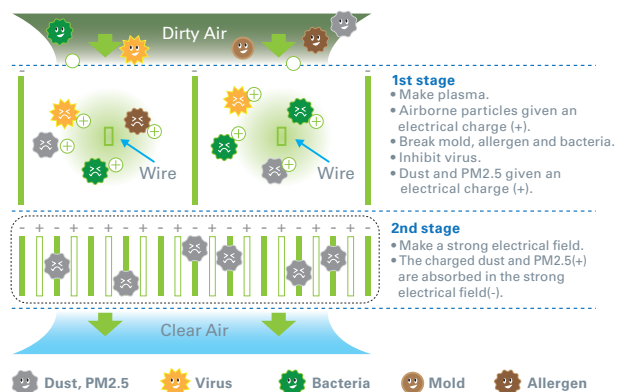
MSZ-AY15/20VGK(P)

## Plasma Quad Plus (only VGKP model)



You can enjoy the clean and safe air by Plasma Quad Plus.

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.



### We have confirmed Plasma Quad Plus inhibits 99% of adhered COVID-19.

\*Tested Organization: National Hospital Organization Sendai Medical Center, Test Report No: R4-001 Test result: Neutralised 99% of influenza A virus in 210.5 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%.

The above test results are for AY25-50. Test results for AY15/20 are on p10.



## V Blocking Filter (only VGK model)

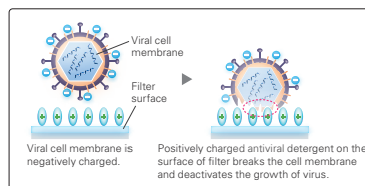
"V Blocking Filter" with antiviral effect inhibits 99% of adhered virus, and other harmful substances, such as bacteria, mold and allergen. Two-layered filter with non-woven fabric and electrostatic filter can effectively capture and remove small particles from the air in your room.

\*Virus Test method: JIS L 1922, Tested Organization: Guangdong Detection Center of Microbiology, Test Report No: 2020FM30156R02D, Test result: 99% neutralized in 24 hours in a Testing Container.

Bacteria Test method: JIS L 1902, Tested Organization: Boken Quality Evaluation Institute, Test Report No: 29020006998-1, Test result: 99% neutralized in 18 hours in a Petri dish.

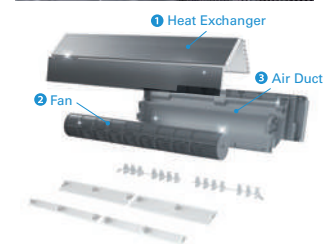
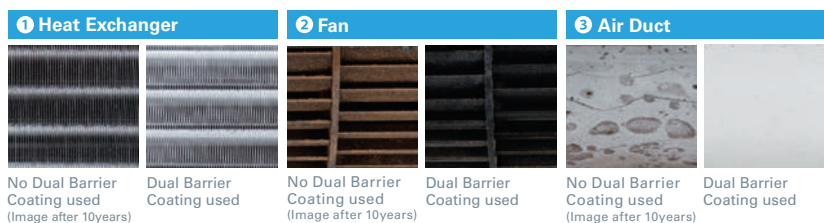
Mold Test method: JIS Z 2911, Tested Organization: Boken Quality Evaluation Institute, Test Report No: 29020006906-1, Test result: No mold growth was confirmed.

Allergen Test method: ELISA, Tested Organization: Daiwa Chemical Industries Co., Ltd, Test Report No: 2021B267, Test result: 96% neutralized in 24 hours.



## Dual Barrier Coating

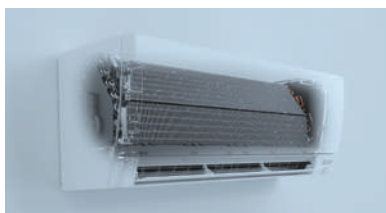
Mitsubishi Electric's Dual Barrier Coating prevents dust and greasy dirt from accumulating on the inner surface of the indoor unit, keeping your air conditioner clean. Hydrophilic material resists oil stains and hydrophobic material resists dust stains.



## Self Clean

When Self Clean Mode is activated, fan operation starts after cooling/dry mode. This operation helps to dry inside indoor unit to prevent molds and odors. You can feel the clean air without frequent cleaning by yourself.

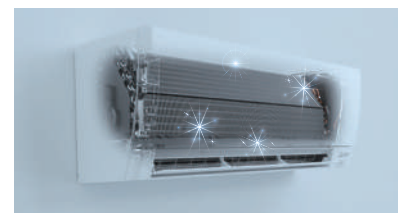
① High humidity inside the unit, which can lead to mold growth and odors.



② Airflow operation suppresses mycelial growth.



③ Maintains clean unit interior.



\*When SELF CLEAN operation is set, it performs for 25 minutes when unit is stopped after COOL/DRY operation. SELF CLEAN operation performs when: COOL/DRY is operated more than 3 minutes. The fan is stopped for the first 3 minutes. Then, the horizontal vane is set to higher than angle 1 and the fan is operated for 25 minutes. To enable this function, press "Self Clean Mode" button on remote controller. (Default setting is OFF)





## Quietness 18dB

### Noiseless 18dB



Quiet, relaxing space is within reach. Operational noise is 18dB (for AY25/35 single connection), which is so quiet that you might even forget the air conditioner is on.



## Night mode

When Night Mode is activated using the wireless remote controller, air conditioner operation will switch to the following settings.

- The brightness of the operation indicator lamp will become dimmer.
- The beeping sound will be disabled.
- The outdoor operating noise will be 3dB lower than the rated operating noise specification.

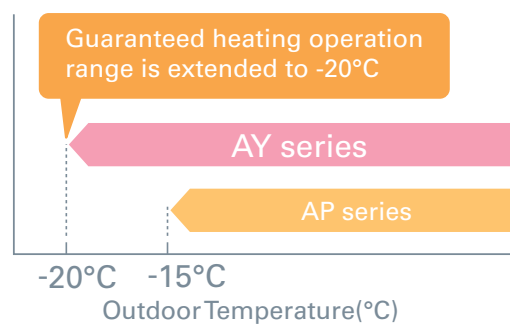
\*The cooling/heating capacity may drop.



## Wider Heating Operation Range

Mitsubishi Electric technology ensures that the unit will operate even when the outside temperature is down to -20°C for AY20/25/35/42/50 single connection only.

### Wider Heating Operation Range



## Outdoor Units for Cold Region

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

### Heater-equipped Units



MUZ-AY25/35/42VG



MUZ-AY50VG



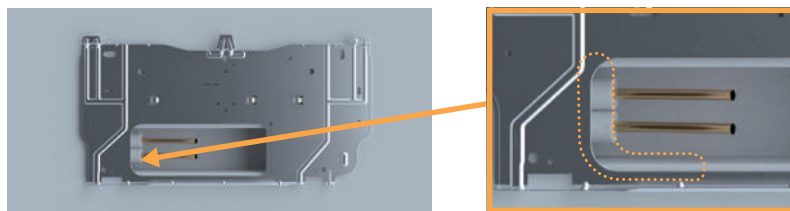
MUZ-AY25/35/42VGH



MUZ-AY50VGH

## 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.

## Spacer

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.



## 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.

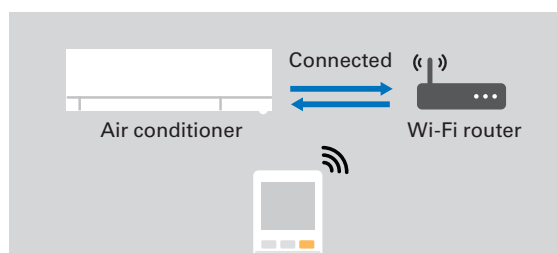
[ key control and monitoring features ]

- On/Off
- Check and set driving conditions
- Notification of weather conditions from current location
- Weekly timer set
- Energy consumption check
- Air purification on/off



## 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 features

The remote controller screen is equipped with LED back-light. The luminous screen allows you to check the setting easily even in the dark. You can easily connect Wi-Fi adaptor in the indoor unit and your local router with just a simple operation of remote controller.



# MSZ-AP SERIES

Introducing a compact and stylish indoor unit with various capacity, designed to match number of rooms. High performance indoor and outdoor units enabled to achieve "Rank A+++" for SEER. \*MSZ-AP20VG

MSZ-AP60/71VG



GOOD DESIGN  
AWARD 2017

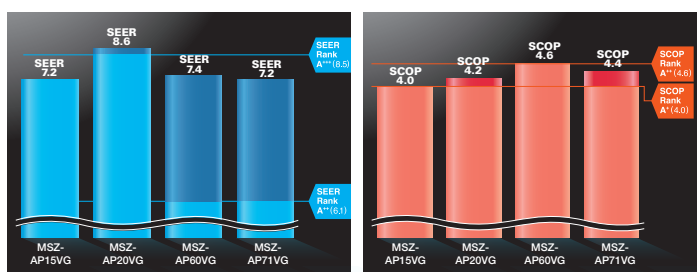


reddot award 2018  
winner



## High energy saving

The classes from the low-capacity 25 to the high-capacity 60, have achieved either the "Rank A+++" or "Rank A++" for SEER and SCOP as energy-savings rating. Our air conditioners are contributing to reduce energy consumption in a wide range.



## Large capacity model

Suitable model for large rooms.



## Wide and Long Airflow

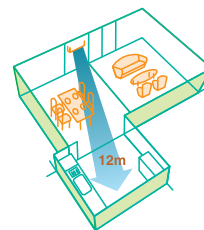
The wide and long airflow function is especially beneficial for large spaces, helping to ensure that air is well circulated and reaches every corner of the room.

### Wide Airflow

This unique airflow system distributes air horizontally over a wide-ranging 150° in heating mode and 100° in cooling mode. Simply press the Wide Swing icon on the remote controller to select the desired airflow from seven different patterns.

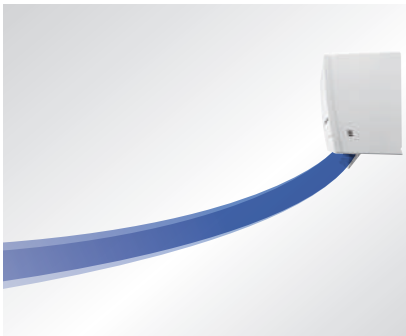
### Long Airflow

Use this function to ensure that the air-flow circulates to areas far across the room. Press the Long Airflow icon on the remote controller to extend reach up to as far as 12 metres from the unit.



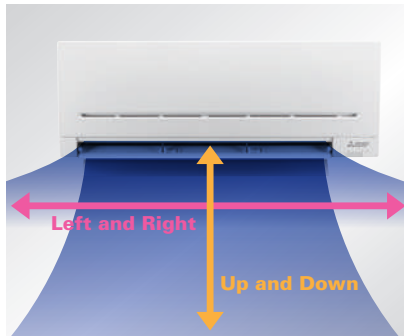
## Evolved comfortable convenience function

### Horizontal Airflow



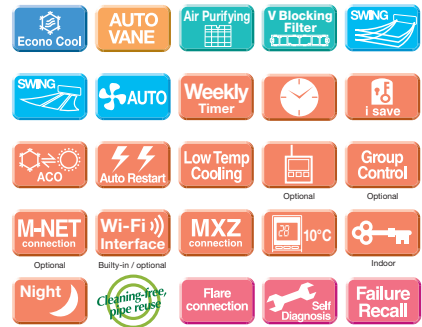
The new airflow control which spreads across the ceiling eliminates the uncomfortable drafty feeling.

### Auto Vane Control



Auto vanes can be moved left and right, and up and down using the remote controller.

### The Function



## "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

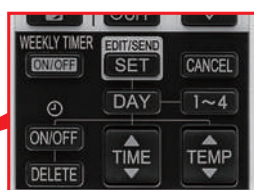
**Pattern Settings:** Input up to four settings for each day

**Settings:** •Start/Stop operation •Temperature setting \*The operation mode cannot be set.

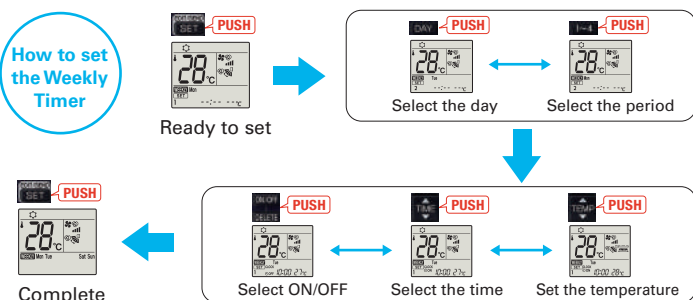
### ■ Easy set-up using dedicated buttons



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. (only for 15/20 models)



# MSZ-AY SERIES



## Indoor Unit

**R32**



MSZ-AY15/20VGK(P)



MSZ-AY25/35/42/50VGK(P)

## Outdoor Unit

**R32**



MUZ-AY15VG



MUZ-AY20VG



MUZ-AY25/35/42VG(H)



MUZ-AY50VG(H)

## Remote Controller



Type			Inverter Heat Pump									
Indoor Unit			MSZ-AY15VGK(P)	MSZ-AY20VGK(P)	MSZ-AY25VGK(P)	MSZ-AY25VGK(P)	MSZ-AY35VGK(P)	MSZ-AY35VGK(P)	MSZ-AY42VGK(P)	MSZ-AY42VGK(P)	MSZ-AY50VGK(P)	MSZ-AY50VGK(P)
Outdoor Unit			MUZ-AY15VG	MUZ-AY20VG	MUZ-AY25VG	MUZ-AY25VG	MUZ-AY35VG	MUZ-AY35VG	MUZ-AY42VG	MUZ-AY42VG	MUZ-AY50VG	MUZ-AY50VG
Refrigerant			R32 <sup>(1)</sup>									
Power Supply			Outdoor Power supply									
Source			230/Single/50									
Outdoor (V / Phase / Hz)			230/Single/50									
Cooling	Design load		kW	1.5	2.0	2.5	2.5	3.5	3.5	4.2	4.2	5.0
	Annual electricity consumption <sup>(2)</sup>		kWh/a	72	81	100	100	141	141	186	186	232
	SEER <sup>(4)</sup>		7.2	8.6	8.7	8.7	8.7	8.7	8.7	7.9	7.9	7.5
	Energy efficiency class		A++	A+++	A+++	A+++	A+++	A+++	A+++	A++	A++	A++
	Capacity		kW	1.5	2.0	2.5	2.5	3.5	3.5	4.2	4.2	5.0
Heating (Average Season) <sup>(5)</sup>	Min-Max		kW	0.5-2.2	0.6-2.7	0.9-3.4	0.9-3.4	1.1-3.8	1.1-3.8	0.9-4.5	0.9-4.5	1.4-5.4
	Total Input		kW	0.370	0.460	0.600	0.600	0.990	0.990	1.300	1.300	1.540
	Design load		kW	1.6 (-10°C)	2.3 (-10°C)	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)
	Declared Capacity		kW	1.6 (-10°C)	2.3 (-10°C)	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)
	Back up heating capacity		kW	1.6 (-15°C)	1.8 (-20°C)	1.9 (-20°C)	1.9 (-20°C)	2.0 (-20°C)	2.0 (-20°C)	2.7 (-20°C)	2.7 (-20°C)	3.0 (-20°C)
Operating Current (Max)	Annual electricity consumption <sup>(2)</sup>		kWh/a	558	766	697	709	863	880	1131	1146	1265
	SCOP <sup>(4)</sup>		4.0	4.2	4.8	4.7	4.7	4.6	4.7	4.6	4.7	4.6
	Energy efficiency class		A+	A+	A++	A++	A++	A++	A++	A++	A++	A++
	Capacity		kW	2.0	2.5	3.2	3.2	4.0	4.0	5.2	5.2	5.5
	Min		kW	0.5	0.5	1.0	1.0	1.3	1.3	1.3	1.4	1.4
Indoor Unit	Max at 7°C		kW	3.1	3.5	4.1	4.1	4.6	4.6	6.0	6.0	7.3
	Total Input		kW	0.500	0.600	0.780	0.780	1.030	1.030	1.390	1.390	1.470
	Input		A	5.5	7.0	7.6	7.6	7.6	7.6	9.9	9.9	13.8
	Operating Current (Max)		A	0.017	0.019	0.026	0.026	0.026	0.026	0.032	0.032	0.032
	Dimensions		H*W*D	mm	250-760-199	250-760-199	299-798-245	299-798-245	299-798-245	299-798-245	299-798-245	299-798-245
Outdoor Unit	Weight		kg	VGKP 9.1, VGK 8.9	VGKP 9.1, VGK 8.9	VGKP 11, VGK 10.5	VGKP 11, VGK 10.5	VGKP 11, VGK 10.5	VGKP 11, VGK 10.5	VGKP 11, VGK 10.5	VGKP 11, VGK 10.5	VGKP 11, VGK 10.5
	Air Volume		m³/min	28-37-44-52-61	28-37-44-52-66	36-50-63-78-105	36-50-63-78-105	36-50-63-78-111	36-50-63-78-111	45-57-70-84-105	45-57-70-84-105	52-64-75-91-117
	Sound Level (SPL)		dB(A)	19 <sup>(6)</sup> -26-30-35-40	19 <sup>(6)</sup> -26-30-35-42	18-24-30-36-42	18-24-30-36-42	18-24-30-36-42	18-24-30-36-42	21-29-34-38-42	21-29-34-38-42	26-33-38-43-48
	Sound Level (PWL)		dB(A)	54	57	57	57	57	57	57	57	58
	Dimensions		H*W*D	mm	538-699-249	550-800-285	550-800-285	550-800-285	550-800-285	550-800-285	550-800-285	714-800-285
Ext. Piping	Weight		kg	23	27.5	27	27	28.5	28.5	34	34	40.5
	Air Volume		m³/min	26	32.2	32.2	32.2	32.2	32.2	32	32	40.5
	Sound Level (SPL)		dB(A)	45	47	47	47	49	49	50	50	52
	Sound Level (PWL)		dB(A)	45	48	48	48	50	50	51	51	52
	Operating Current (Max)		A	5.3	6.8	7.3	7.3	7.3	7.3	9.6	9.6	13.5
Guaranteed Operating Range (Outdoor)	Breaker Size		A	10	10	10	10	10	10	10	10	16
	Diameter		mm	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52
	Chargeless piping length		m	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
	Max.Length		m	20	20	20	20	20	20	20	20	20
	Max.Height		m	12	12	12	12	12	12	12	12	12
Guaranteed Operating Range (Outdoor)	Cooling		°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
	Heating		°C	-15 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24

(1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

The GWP of R32 is 675 in the IPCC 4th Assessment Report.  
(2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(3) 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 53-54 for heating (warmer season) specifications.

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

# MSZ-AP SERIES



## Indoor Unit

**R32 R410A**

※VGK model Wi-Fi Interface built-in.



MSZ-AP60/71VG(K)

## Outdoor Unit

**R32**



MUZ-AP60VG



MUZ-AP71VG2

## Remote Controller



Type			Inverter Heat Pump	
Indoor Unit			MSZ-AP60VG(K)	MSZ-AP71VG(K)
Outdoor Unit			MUZ-AP60VG	MUZ-AP71VG
Refrigerant			Single: R32 <sup>(1)</sup> / Multi: R32 <sup>(1)</sup>	
Power Supply			Outdoor Power supply	
Source			230 / Single / 50	
Outdoor ( V / Phase / Hz )				
Cooling	Design load	kW	6.1	7.1
	Annual electricity consumption <sup>(2)</sup>	kWh/a	288	345
	SEER <sup>(4)</sup>		7.4	7.2
	Energy efficiency class		A++	A++
	Capacity	kW	6.1	7.1
	Min-Max	kW	1.4-7.3	2.0-8.7
Heating (Average Season) <sup>(3)</sup>	Total Input	kW	1.590	2.010
	Design load	kW	4.6 (-10°C)	6.7 (-10°C)
	Declared Capacity	at reference design temperature	4.6 (-10°C)	6.7 (-10°C)
		at bivalent temperature	4.6 (-10°C)	6.7 (-10°C)
		at operation limit temperature	3.7 (-15°C)	5.4 (-15°C)
	Back up heating capacity	kW	0.0 (-10°C)	0.0 (-10°C)
Operating Current (Max)	Annual electricity consumption <sup>(2)</sup>	kWh/a	1398	2126
	SCOP <sup>(4)</sup>		4.6	4.4
	Energy efficiency class		A++	A+
	Capacity	kW	6.8	8.1
	Min-Max	kW	2.0-8.6	2.2-10.3
	Total Input	kW	1.670	2.120
Indoor Unit	Input	kW	14.1	16.4
	Operating Current (Max)	A	0.049	0.045
	Dimensions	H*W*D	325-1100-257	325-1100-257
	Weight	kg	16.0	17.0
	Air Volume (SLo-Lo-Mid-Hi-SH <sup>(5)</sup> )	m <sup>3</sup> /min	9.4 - 11.0 - 13.2 - 16.0 - 18.9	9.6 - 11.5 - 13.2 - 15.3 - 18.6
	Sound Level (SPL) (SLo-Lo-Mid-Hi-SH <sup>(5)</sup> )	dB(A)	10.8 - 13.4 - 15.4 - 17.4 - 20.3	10.2 - 11.5 - 13.2 - 15.3 - 19.2
Outdoor Unit	Sound Level (PWL) (SLo-Lo-Mid-Hi-SH <sup>(5)</sup> )	dB(A)	29 - 37 - 41 - 45 - 48	30 - 37 - 41 - 45 - 49
	Sound Level (PWL)	dB(A)	30 - 37 - 41 - 45 - 48	30 - 37 - 41 - 45 - 51
	Dimensions	H*W*D	65	65
	Weight	kg	714-800-285	880-840-330
	Air Volume	m <sup>3</sup> /min	40	53
	Sound Level (SPL)	dB(A)	52.1	63.7
Ext. Piping	Sound Level (PWL)	dB(A)	52.1	57.7
	Sound Level (SPL)	dB(A)	56	56
	Sound Level (PWL)	dB(A)	57	55
	Operating Current (Max)	A	69	69
	Breaker Size	A	13.6	16.0
	Diameter	mm	16	20
Guaranteed Operating Range (Outdoor)	Max.Length	m	6.35 / 12.7	6.35 / 12.7
	Max.Height	m	30	30
	Max.Width	m	15	15
Guaranteed Operating Range (Indoor)	Cooling	°C	-10 ~ +46	-10 ~ +46
	Heating	°C	-15 ~ +24	-15 ~ +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 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO<sub>2</sub> over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

The GWP of R32 is 675 in the IPCC 4th Assessment Report.

(<sup>(2)</sup>) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(<sup>(3)</sup>) SHi: Super High

(<sup>(4)</sup>) 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".

(<sup>(5)</sup>) Please see page 53-54 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-EF18-50VGB



GOOD DESIGN AWARD 2014



reddot award 2015 winner



## 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



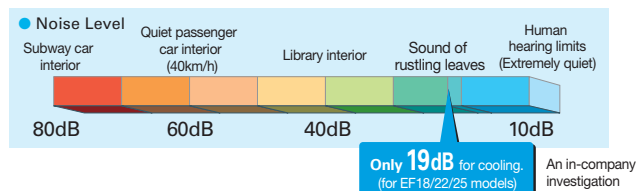
All models in the series have achieved high energy-savings rating, and are contributing to reduced energy consumption in homes, offices and a range of other settings. Offered in a variety of output capacities and installation patterns, the vast applicability promises an ideal match for any user.

Indoor \ Outdoor	Rank A for single connection MUZ-EF25/35VG(H) MUZ-EF42/50VG	Compatibility MXZ					
		2F33VF	2F42VF	2F53VF	3F54VF	3F68VF	4F72VF
MSZ-EF18VG	—	✓	✓	✓	✓	✓	✓
MSZ-EF22VG	—	✓	✓	✓	✓	✓	✓
MSZ-EF25VG	A+++ / A++(A+++)	✓	✓	✓	✓	✓	✓
MSZ-EF35VG	A+++ / A++(A+*)		✓	✓	✓	✓	✓
MSZ-EF42VG	A++ / A+			✓	✓	✓	✓
MSZ-EF50VG	A++ / A+			✓	✓	✓	✓

\*VEH

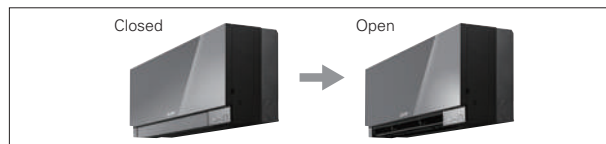
## Quiet Comfort All Day Long

Mitsubishi Electric's advanced "Silent Mode" fan speed setting provides super-quiet operation as low as 19dB for EF18/22/25 models for cooling. This unique feature makes the Kirigamine ZEN series ideal for use in any situation.



## 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.

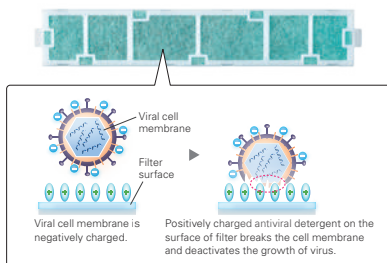


## V Blocking Filter



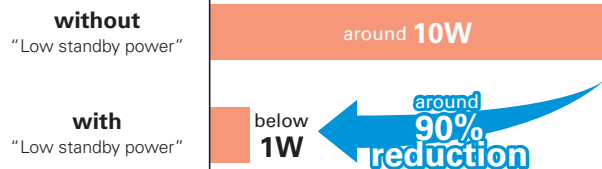
V Blocking Filter with antiviral effect inhibits 99% of adhered virus, and other harmful substances, such as bacteria, mold and allergen.

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



## 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.



## 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-EF25/35VG

Heater-equipped Units



MUZ-EF25/35VGH

# MSZ-E SERIES



## Indoor Unit / Remote Controller

R32 R410A



White

MSZ-EF18/22/25/35/42/50VG(K)W



Silver

MSZ-EF18/22/25/35/42/50VG(K)S



Black

MSZ-EF18/22/25/35/42/50VG(K)B\*

\* Soft-dry Cloth is enclosed with Black models.

\* VGK model Wi-Fi interface built-in

## Outdoor Unit R32



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



MUZ-EF50VG

GOOD DESIGN  
AWARD 2015

reddot award 2015  
winner



Type			Inverter Heat Pump								
Indoor Unit			MSZ-EF18VG(K)	MSZ-EF22VG(K)	MSZ-EF25VG(K)	MSZ-EF25VG(K)	MSZ-EF35VG(K)	MSZ-EF35VG(K)	MSZ-EF42VG(K)	MSZ-EF50VG(K)	
Outdoor Unit			for MXZ connection		MUZ-EF25VG	MUZ-EF25VG(H)	MUZ-EF35VG	MUZ-EF35VG(H)	MUZ-EF42VG	MUZ-EF50VG	
Refrigerant			R32 <sup>(1)</sup>								
Power Supply	Source	Outdoor Power 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 <sup>(2)</sup>	kWh/a	-	-	96	96	139	139	186	233	
	SEER <sup>(4)</sup>		-	-	9.1	9.1	8.8	8.8	7.9	7.5	
	Energy efficiency class		-	-	A+++	A+++	A+++	A+++	A++	A++	
		Rated	kW	-	-	2.5	2.5	3.5	3.5	4.2	5.0
	Capacity	Min-Max	kW	-	-	0.9-3.4	0.9-3.4	1.1-4.0	1.1-4.0	0.9-4.6	1.4-5.4
	Total Input	Rated	kW	-	0.540	0.540	0.910	0.910	1.200	1.540	
Heating (Average Season) <sup>(3)</sup>	Design load	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)	
	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 bivalent 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	-	-	2.0 (-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 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	
	Annual electricity consumption <sup>(2)</sup>	kWh/a	-	-	713	727	882	900	1151	1304	
	SCOP <sup>(4)</sup>		-	-	4.7	4.6	4.6	4.5	4.6	4.5	
	Energy efficiency class		-	-	A++	A++	A++	A+	A++	A+	
		Rated	kW	-	-	3.2	3.2	4.0	4.0	5.4	5.8
	Capacity	Min-Max	kW	-	-	1.0-4.2	1.0-4.2	1.3-5.1	1.3-5.1	1.3-6.3	1.4-7.5
	Total Input	Rated	kW	-	0.700	0.700	0.950	0.950	1.455	1.560	
Operating Current (Max)			A	-	7.1	7.1	7.1	7.1	10.0	14	
Indoor Unit	Input	Rated	kW	0.026	0.026	0.026	0.026	0.030	0.030	0.033	0.043
	Operating Current (Max)		A	0.3	0.3	0.3	0.3	0.3	0.4	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	11.5	
	Air Volume (Lo-Lo-Mid-Hi-SH) <sup>(7)</sup>	Cooling	m³/min	40-46-63-83-105	40-46-63-83-105	40-46-63-83-105	40-46-63-83-105	40-46-63-83-105	58-66-77-89-112	58-68-79-92-113	
		Heating	m³/min	40-46-62-89-119	40-46-62-89-119	40-46-62-89-119	40-46-62-89-119	40-46-62-89-127	55-63-78-99-132	64-72-90-111-148	
	Sound Level (SPL) (Lo-Lo-Mid-Hi-SH) <sup>(7)</sup>	Cooling	dB(A)	19-23-29-36-42	19-23-29-36-42	19-23-29-36-42	19-23-29-36-42	21-24-30-36-42	28-31-35-39-43	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	28-30-35-41-48	30-33-37-43-49	
	Sound Level (PWL)	Cooling	dB(A)	60	60	60	60	60	60	60	
		Heating	dB(A)	-	-	-	-	-	-	-	
Outdoor Unit	Dimensions	H*W*D	mm	-	-	550-800-285	550-800-285	550-800-285	550-800-285	714-800-285	
	Weight		kg	-	-	31	31	34	34	40	
	Air Volume	Cooling	m³/min	-	-	27.8	27.8	34.3	34.3	32.0	40.2
		Heating	m³/min	-	-	29.8	29.8	32.7	32.7	32.7	40.2
	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	62	62	62	65
		Heating	dB(A)	-	-	-	-	-	-	-	-
	Operating Current (Max)		A	-	-	6.8	6.8	6.8	6.8	9.6	13.6
	Breaker Size		A	-	-	10	10	10	10	12	16
Ext. Piping	Diameter	Liquid/Gas	mm	-	-	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	
	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 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO<sub>2</sub> over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

The GWP of R32 is 675 in the IPCC 4th Assessment Report.

(2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(3) SHI: Super High

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

(5) Please see page 53-54 for heating (warmer season) specifications.



# FT VGHZ <sup>R32</sup> 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.

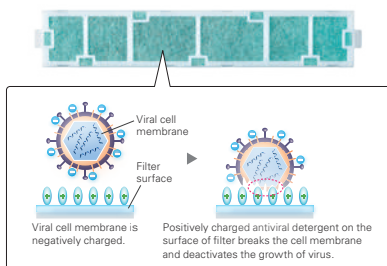


## V Blocking Filter (Optional)

V Blocking Filter

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.



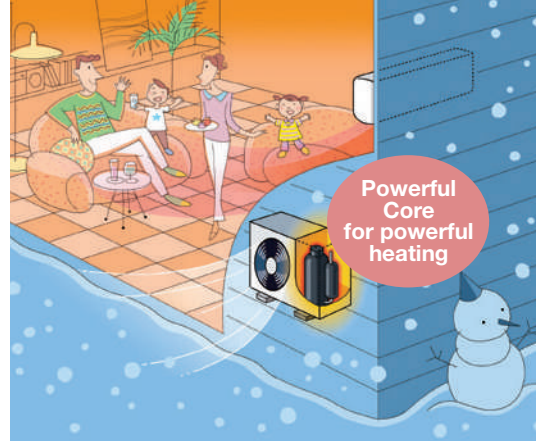
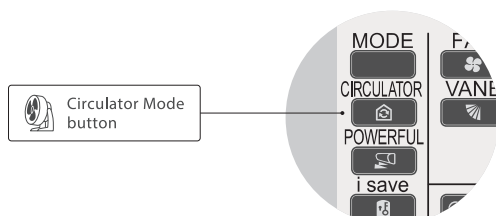
## Remote Controller with Backlight

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.



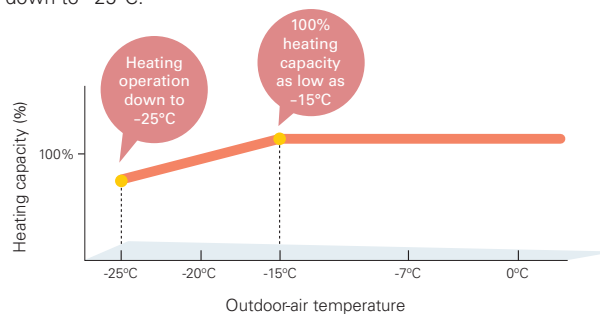
## Built-in Wi-Fi

(MSZ-FT25/35/50VGK)

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

## Hyper Heating

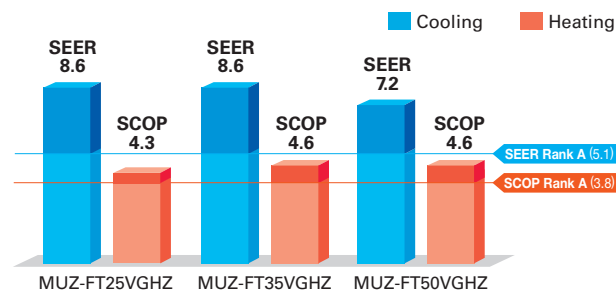
Mitsubishi Electric's powerful compressor and highly cold-resistant parts enable the heat pump to provide 100% or more heating capacity even at  $-15^{\circ}\text{C}$ , and also the heating operation is guaranteed down to  $-25^{\circ}\text{C}$ .



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

DC Inverter

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)

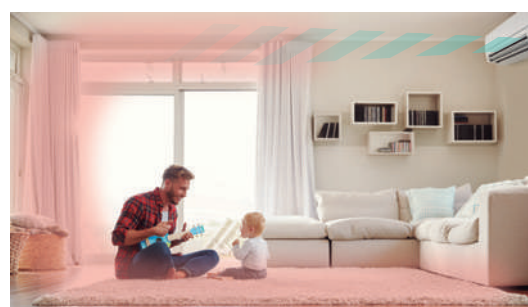


Image is for illustration purposes.

# MSZ-FT VGHZ SERIES



## Indoor Unit



MSZ-FT25/35/50VG(K)

## Outdoor Unit



MUZ-FT25VGHZ



MUZ-FT35/50VGHZ

## Remote Controller



Type			Inverter Heat Pump					
Indoor Unit			MSZ-FT25VG(K)	MSZ-FT35VG(K)	MSZ-FT50VG(K)			
Outdoor Unit			MUZ-FT25VGHZ	MUZ-FT35VGHZ	MUZ-FT50VGHZ			
Refrigerant			R32 (*1)					
Power Supply	Source		Outdoor power supply					
	Outdoor (V/Phase/Hz)		230 / Single / 50					
Cooling	Design Load	kW	2.5	3.5	5.0			
	Annual Electricity Consumption (*2)	kWh/a	101	142	243			
	SEER (*4)		8.6	8.6	7.2			
	Capacity	Energy Efficiency Class		A+++	A+++	A++		
		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		
Heating (Average Season) (*5)	Design Load	kW	3.2 (-10°C)	4.0 (-10°C)	5.0 (-10°C)			
	Declared Capacity	at reference design temperature	kW	3.2 (-10°C)	4.0 (-10°C)	5.0 (-10°C)		
		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 Consumption (*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		
Operating Current (max)			A	10.0	11.6	13.9		
Indoor Unit	Input	Rated	kW	0.039	0.04	0.047		
	Operating Current (max)		A	0.4				
	Dimensions		H × W × D	mm			280 - 838 - 229	
	Weight		kg	10				
	Air Volume (SLo-Lo-Mid-Hi-SHi) (*3)	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
		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) (SLo-Lo-Mid-Hi-SHi) (*3)	Cooling	dB(A)	19 - 27 - 36 - 41 - 46		19 - 27 - 36 - 42 - 47		28 - 34 - 40 - 45 - 48
		Heating	dB(A)	19 - 31 - 39 - 46 - 49		19 - 33 - 42 - 49 - 52		28 - 36 - 45 - 51 - 54
	Sound Level (PWL)		dB(A)	60				
	Outdoor Unit	Dimensions		H × W × D	mm		550 - 800 - 285	714 - 800 - 285
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 (max)		A	9.6		11.2		13.5	
Breaker Size		A	12		12		16	
Ext. Piping	Diameter	Liquid / Gas	mm	6.35 / 9.52		6.35 / 9.52		6.35 / 9.52
	Max. Length	Out-In	m	20		30		30
	Max. Height	Out-In	m	12		15		15
Guaranteed Operating Range (Outdoor)		Cooling	°C	-10 ~ +46		-10 ~ +46		-10 ~ +46
		Heating	°C	-25 ~ +24		-25 ~ +24		-25 ~ +24

(\*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1kg of CO<sub>2</sub> over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R410A is 2088 in the IPCC 4th Assessment Report.

(\*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(\*3) SHi: Super High

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

(\*5) Please see page 53-54 for heating (warmer season) specifications.

MSZ-BT20/25/35/50VG(K)

R32  
Single / Multi

# MSZ-BT SERIES

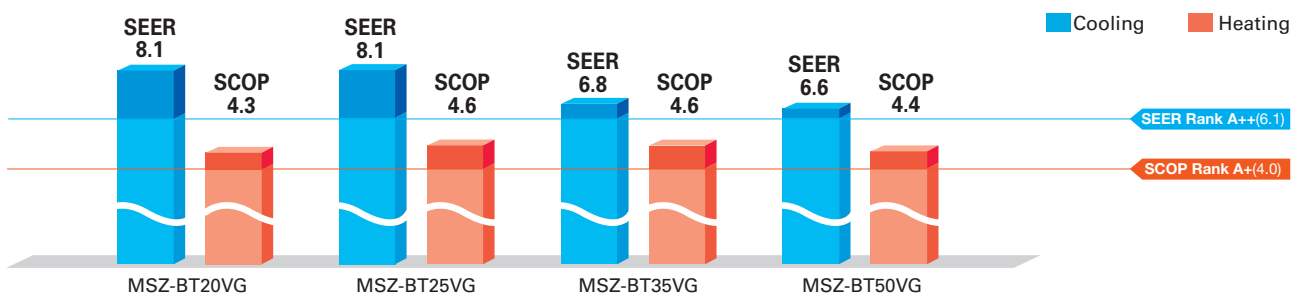
The BT series featured with its high performance, energy efficiency, and simplicity of use brings greater comfort to your room.



## High Energy Efficiency for Entire Range of Series

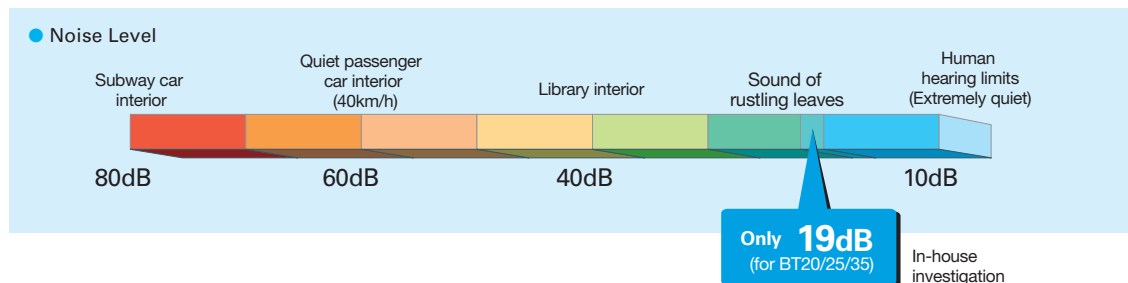


All models in the series, from the low-capacity 20 to the high-capacity 50, have achieved the "Rank A++" for SEER and size 25 and 35 have achieved the "Rank A++" for SCOP as energy-savings rating. For home use, such as in bedrooms and living rooms, to light commercial use, such as in offices, our air conditioners are contributing to reduced energy consumption in a wide range.



## Quiet Operation

The indoor unit noise level is as low as 19dB for AP Series, offering a peaceful inside environment.



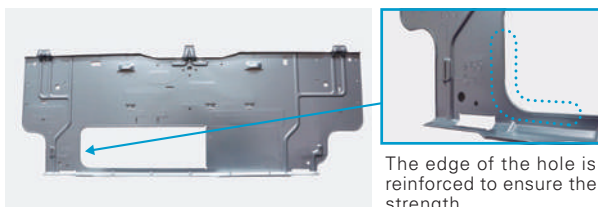
## New Remote Controller

New stylish and compact remote controller features easy-read big display and simple button position with fundamental functions.



## 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.



## Built-in Wi-Fi Interface (MSZ-BT20/25/35/50VGK)



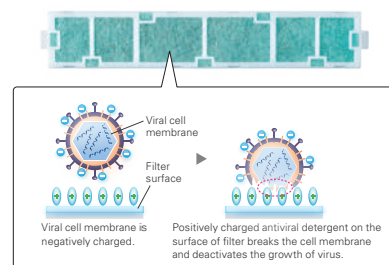
The indoor unit is equipped with a Wi-Fi Interface inside an exclusive pocket in the unit.

This eliminates the need to install a Wi-Fi interface, and also contributes to the beautiful appearance since the interface is hidden.

## V Blocking Filter



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.



# MSZ-BT SERIES



## Indoor Unit

R32



MSZ-BT20/25/35/50VG(K)

## Outdoor Unit



MUZ-BT20VG

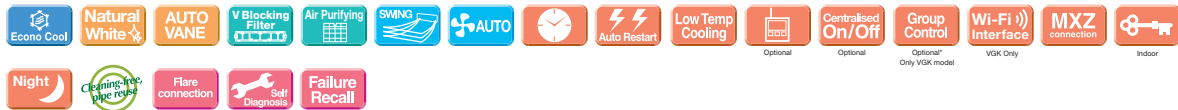


MUZ-BT25/35VG



MUZ-BT50VG

## Remote Controller



Type				Inverter Heat Pump								
Indoor Unit				MSZ-BT20VG(K)		MSZ-BT25VG(K)		MSZ-BT35VG(K)		MSZ-BT50VG(K)		
Outdoor Unit				MUZ-BT20VG		MUZ-BT25VG		MUZ-BT35VG		MUZ-BT50VG		
Refrigerant				R32 <sup>(1)</sup>								
Power Supply		Source		Outdoor Power supply								
		Outdoor ( V / Phase / Hz )		230V/Single/50Hz								
Cooling	Design load		kW	2.0		2.5		3.5		5.0		
	Annual electricity consumption <sup>(2)</sup>		kWh/a	86		108		180		265		
	SEER <sup>(4)</sup>			8.1		8.1		6.8		6.6		
	Energy efficiency class			A++		A++		A++		A++		
	Capacity		Rated	kW	2.0		2.5		3.5		5.0	
		Min-Max	kW	0.5-2.9		0.5-3.0		0.9-3.5		1.3-5.0		
Total Input		Rated	kW	0.450		0.700		1.240		2.050		
Heating (Average Season) <sup>(3)</sup>	Design load		kW	1.5 (-10°C)		1.9 (-10°C)		2.4 (-10°C)		3.8 (-10°C)		
	Declared Capacity		at reference design temperature	kW	1.5 (-10°C)		1.9 (-10°C)		2.4 (-10°C)		3.8 (-10°C)	
			at bivalent temperature	kW	1.5 (-10°C)		1.9 (-10°C)		2.4 (-10°C)		3.8 (-10°C)	
			at operation limit temperature	kW	1.3 (-15°C)		1.7 (-15°C)		2.1 (-15°C)		3.4 (-15°C)	
	Back up heating capacity		kW	0.0 (-10°C)		0.0 (-10°C)		0.0 (-10°C)		0.0 (-10°C)		
	Annual electricity consumption <sup>(2)</sup>		kWh/a	487		577		727		1209		
	SCOP <sup>(4)</sup>			4.3		4.6		4.6		4.4		
	Energy efficiency class			A+		A++		A++		A+		
	Capacity		Rated	kW	2.5		3.15		3.6		5.4	
			Min-Max	kW	0.7-3.2		0.7-3.5		0.9-4.1		1.4-6.5	
	Total Input		Rated	kW	0.550		0.750		0.930		1.550	
Operating Current (Max)			A	5.6		7.0		7.0		10.0		
Indoor Unit	Input		Rated	kW	0.024		0.024		0.031		0.037	
	Operating Current(Max)		A	0.25		0.25		0.31		0.35		
	Dimensions		H*W*D	mm		280-838-235		280-838-235		280-838-235		
	Weight		kg	9		9		9		9		
	Air Volume (Lo-Mid-Hi-SH) <sup>(5)</sup>		Cooling	m³/min	4.2 - 5.2 - 6.8 - 8.7 - 10.9		4.2 - 5.2 - 6.8 - 8.7 - 10.9		4.2 - 5.2 - 6.8 - 8.7 - 13.2		6.3 - 7.6 - 9.0 - 11.0 - 13.2	
			Heating	m³/min	4.2 - 5.0 - 6.8 - 9.0 - 11.9		4.2 - 5.0 - 6.8 - 9.0 - 11.9		4.2 - 5.0 - 6.8 - 9.0 - 11.9		6.0 - 7.8 - 9.9 - 11.9 - 14.1	
Outdoor Unit	Sound Level (SPL) (Lo-Mid-Hi-SH) <sup>(5)</sup>		Cooling	dB(A)	19 - 22 - 30 - 37 - 43		19 - 22 - 30 - 37 - 43		19 - 22 - 31 - 38 - 46		29 - 33 - 36 - 40 - 46	
			Heating	dB(A)	20 - 23 - 30 - 37 - 43		20 - 23 - 30 - 37 - 43		20 - 23 - 30 - 37 - 44		29 - 33 - 38 - 43 - 48	
	Sound Level (PWL)		Cooling	dB(A)	57		57		60		60	
	Heating		dB(A)	57		57		60		60		
	Dimensions		H*W*D	mm	538-699-249		538-699-249		538-699-249		550-800-285	
	Weight		kg	23		24		24		35		
Outdoor Unit	Air Volume		Cooling	m³/min	30.3		32.2		32.2		30.4	
			Heating	m³/min	30.3		32.2		34.6		32.7	
	Sound Level (SPL)		Cooling	dB(A)	50		50		52		50	
			Heating	dB(A)	50		50		52		51	
	Sound Level (PWL)		Cooling	dB(A)	63		63		64		64	
			Heating	dB(A)	63		63		64		64	
Operating Current (Max)			A	5.3		6.7		6.7		9.6		
Breaker Size			A	10		10		10		12		
Ext. Piping	Diameter		Liquid/Gas	mm	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	
	Max.Height		Out-In	m	12		12		12		12	
Guaranteed Operating Range (Outdoor)			Cooling	°C	-10 ~ +46		-10 ~ +46		-10 ~ +46		-10 ~ +46	
			Heating	°C	-15 ~ +24		-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. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO<sub>2</sub> over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

The GWP of R32 is 675 in the IPCC 4th Assessment Report.

(2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(3) 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 53-54 for heating (warmer season) specifications.



# MSZ-HR SERIES

Compact, high-performance indoor and outdoor units with R32 that is low global warming potential compared with the current refrigerant R410A contribute to room comfort and to prevent global warming.

R32

MSZ-HR25/35/42/50VF(K)

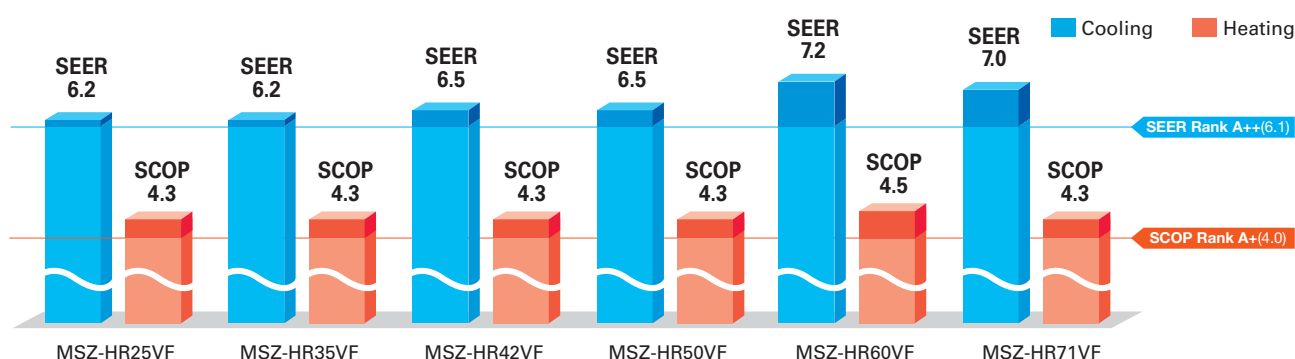
MSZ-HR60/71VF(K)



## "Rank A++/A+" Energy Savings Achieved for Entire Range of Series

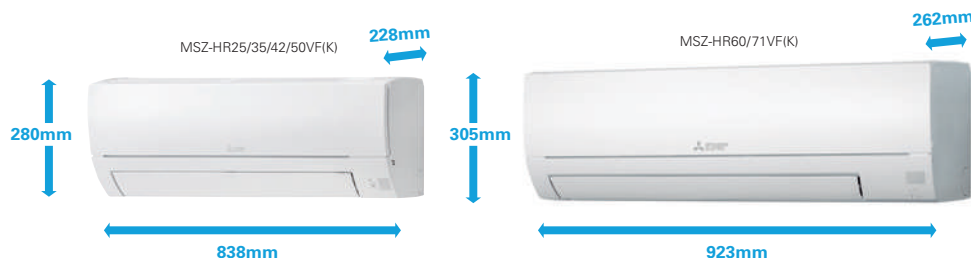


All models in the series, from capacity 25 to 71, have achieved the "Rank A++" for SEER and "Rank A+" for SCOP as energy-savings rating, thanks to Mitsubishi Electric's inverter technologies which are adopted to provide automatic adjustment of operation load according to need.



## Simple and Friendly Design

The round front surface provides a simple and friendly impression. And the width of indoor unit is compact, making installation in smaller, tighter spaces possible.



## Wi-Fi® and System Control

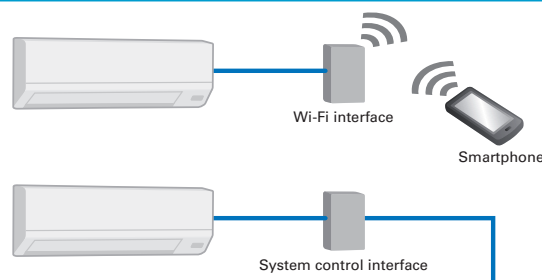
### Wi-Fi Interface (Built-in) \*Only VFK model

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

### System Control Interface (Optional)

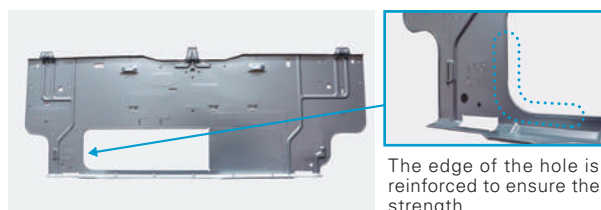
- Remote on/off operation is possible by input to the connector.
- Depending on the interface used, connecting a wired remote-control such as the PAR-41MAA is possible.
- Centralised control is possible when connected to M-NET.

\*Wi-Fi Interface and System Control Interface cannot be used simultaneously.



## Back Plate with a Hole

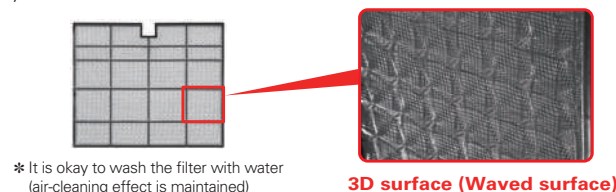
With a hole as default in the center of the back plate, the piping can be easily taken out from the back. The edge of the hole is reinforced to ensure the strength.



## Air Purifying Filter



This filter generates stable antibacterial and deodorising 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.



# MSZ-HR SERIES



## Indoor Unit

R32



MSZ-HR25/35/42/50VF(K)



MSZ-HR60/71VF(K)

## Outdoor Unit



MUZ-HR25VF



MUZ-HR35VF

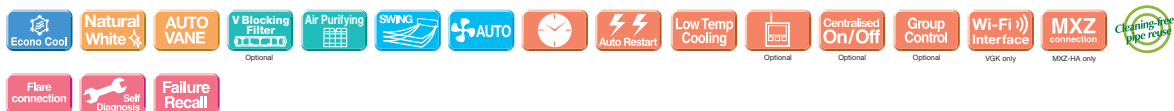


MUZ-HR42/50VF



MUZ-HR60/71VF

## Remote Controller



Type			Inverter Heat Pump							
Indoor Unit			MSZ-HR25VF(K)	MSZ-HR35VF(K)	MSZ-HR42VF(K)	MSZ-HR50VF(K)	MSZ-HR60VF(K)	MSZ-HR71VF(K)		
Outdoor Unit			MUZ-HR25VF	MUZ-HR35VF	MUZ-HR42VF	MUZ-HR50VF	MUZ-HR60VF	MUZ-HR71VF		
Refrigerant			R32 <sup>(1)</sup>							
Power Supply			Outdoor Power supply 230V/Single/50Hz							
Cooling	Design load		kW	2.5	3.4	4.2	5.0	6.1	7.1	
	Annual electricity consumption <sup>(2)</sup>		kWh/a	141	191	226	269	296	355	
	SEER <sup>(4)</sup>			6.2	6.2	6.5	6.5	7.2	7.0	
		Energy efficiency class		A++	A++	A++	A++	A++	A++	
		Rated	kW	2.5	3.4	4.2	5.0	6.1	7.1	
	Capacity	Min-Max	kW	0.5-2.9	0.9-3.4	1.1-4.6	1.3-5.0	1.7-7.1	1.8-7.3	
		Total Input	Rated	kW	0.800	1.210	1.340	2.050	1.810	2.330
Heating (Average Season) <sup>(3)</sup>	Design load		kW	1.9 (-10°C)	2.4 (-10°C)	2.9 (-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)	2.9 (-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)	2.9 (-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)	2.9 (-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)	0.0 (-10°C)	
	Annual electricity consumption <sup>(2)</sup>		kWh/a	614	781	928	1224	1430	1755	
	SCOP <sup>(4)</sup>		4.3	4.3	4.3	4.3	4.5	4.3		
		Energy efficiency class		A+	A+	A+	A+	A+	A+	
	Capacity	Rated	kW	3.15	3.6	4.7	5.4	6.8	8.1	
		Min-Max	kW	0.7-3.5	0.9-3.7	0.9-5.4	1.4-6.5	1.5-8.5	1.5-9.0	
Total Input			Rated	kW	0.850	0.975	1.300	1.550	1.810	2.440
Operating Current (Max)			A	5.0	6.7	8.5	10.0	14.1	14.1	
Indoor Unit	Input		Rated	kW	0.020	0.028	0.032	0.039	0.055	0.055
	Operating Current(Max)		A	0.2	0.27	0.3	0.36	0.5	0.5	
	Dimensions		H*W*D	mm	280-838-228	280-838-228	280-838-228	280-838-228	305-923-262	305-923-262
	Weight		kg	8.5	8.5	9	9	12.5	12.5	
	Air Volume (Lo-Mid-Hi-SH) <sup>(3)</sup>	Cooling	m³/min	3.6 - 5.4 - 7.2 - 9.7	3.6 - 5.6 - 7.8 - 11.7	6.0 - 8.7 - 10.8 - 13.1	6.4 - 9.2 - 11.2 - 13.1	10.4 - 12.6 - 15.4 - 19.6	10.4 - 12.6 - 15.4 - 19.6	
		Heating	m³/min	3.3 - 5.4 - 7.4 - 10.1	3.3 - 5.4 - 7.4 - 10.5	5.6 - 7.9 - 10.8 - 13.4	6.1 - 8.3 - 11.2 - 14.5	10.7 - 13.1 - 16.7 - 19.6	10.7 - 13.1 - 16.7 - 19.6	
	Sound Level (SPL) (Lo-Mid-Hi-SH) <sup>(3)</sup>	Cooling	dB(A)	21 - 30 - 37 - 43	22 - 31 - 38 - 46	24 - 34 - 39 - 45	28 - 36 - 40 - 45	33 - 38 - 44 - 50	33 - 38 - 44 - 50	
Heating		dB(A)	21 - 30 - 37 - 43	21 - 30 - 37 - 44	24 - 32 - 40 - 46	27 - 34 - 41 - 47	33 - 38 - 44 - 50	33 - 38 - 44 - 50		
Outdoor Unit	Sound Level (PWL)		Cooling	dB(A)	57	60	60	60	65	65
	Dimensions		H*W*D	mm	538-699-249	538-699-249	550-800-285	550-800-285	714-800-285	714-800-285
	Weight		kg	23	22	32.5	34	40	40	
	Air Volume	Cooling	m³/min	30.3	32.2	30.4	30.4	42.8	42.8	
		Heating	m³/min	30.3	32.2	32.7	32.7	48.3	48.3	
	Sound Level (SPL)	Cooling	dB(A)	50	51	50	50	53	53	
		Heating	dB(A)	50	51	51	51	57	57	
	Sound Level (PWL)	Cooling	dB(A)	63	64	64	64	65	66	
		Operating Current (Max)	A	4.8	6.4	8.2	9.6	13.6	13.6	
	Breaker Size		A	10	10	10	12	16	16	
Ext. Piping	Diameter		Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 12.7	
	Max.Length		Out-In	m	20	20	20	30	30	
	Max.Height		Out-In	m	12	12	12	15	15	
Guaranteed Operating Range (Outdoor)			Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	
			Heating	°C	-10 ~ +24	-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 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO<sub>2</sub> over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

The GWP of R32 is 675 in the IPCC 4th Assessment Report.

(2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(3) SHi: Super High

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

(5) Please see page 53-54 for heating (warmer season) specifications.

# MSZ-DW SERIES

R32

Introducing an indoor unit that is compact yet packed with a variety of features.

High energy saving performance and Air Purifying Filter bring you a comfortable indoor environment.

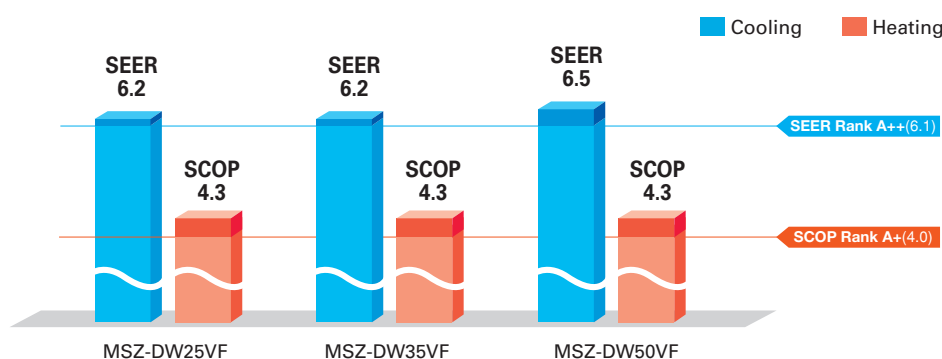
MSZ-DW25/35/50VF



## Energy Saving



Mitsubishi Electric's inverter technologies are adopted to provide automatic adjustment of operation load according to need. This reduces excessive consumption of electricity, and thereby realises Energy Rank "A++" for SEER (cooling) and "A+" for SCOP (heating).



## Simple and Compact Design

The stylish design makes it a natural match for any room. The width of indoor units is compact, making installation in smaller, tighter spaces possible.



## Simple Control

The simple remote controller and functions provide the easy control solution and comforts of life.



## Wi-Fi and System Control

### Wi-Fi Interface (Optional)

Optional interface and a Cloud-based solution "MELCloud" enable users to control air conditioners and check operating status via devices such as laptops, tablets and smartphones.

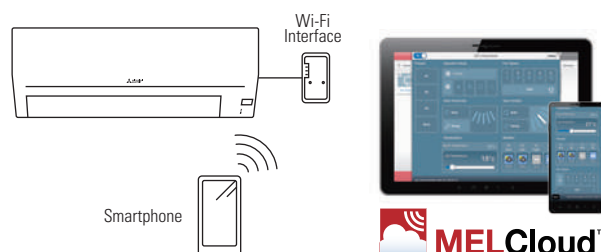
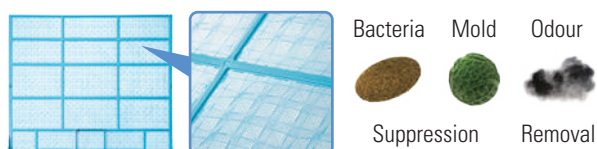
### System Control Interface (Optional)

- 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-41MAA is possible.
- Centralised control is possible when connected to M-NET.

## Air Purifying Filter



Air Purifying Filter generates stable antibacterial, antifungal, and deodorant effects. The three-dimensional surface expands the filter's capture area and contributes to the better dust collection performance than conventional filters.







# MSY-TP<sub>SERIES</sub>

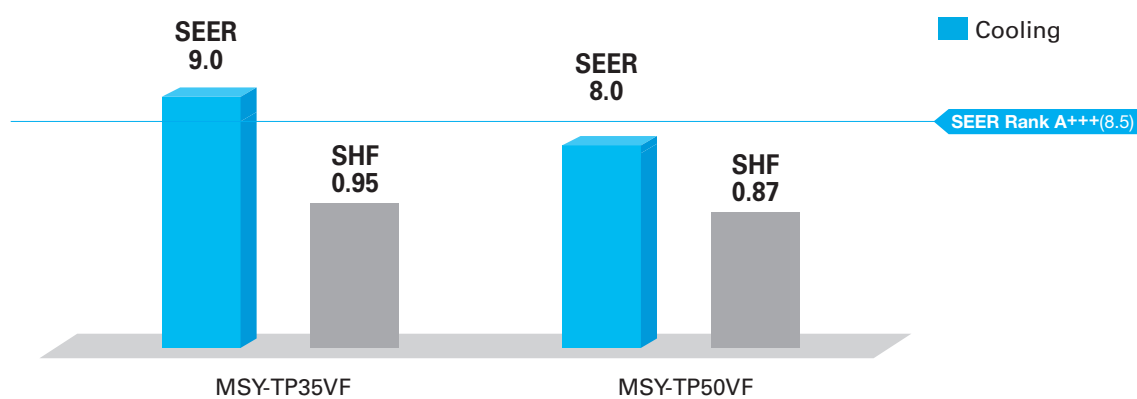
Cooling only model with high-performance provides high SHF in various environments thanks to wide operation range.

R32

MSY-TP35/50VF

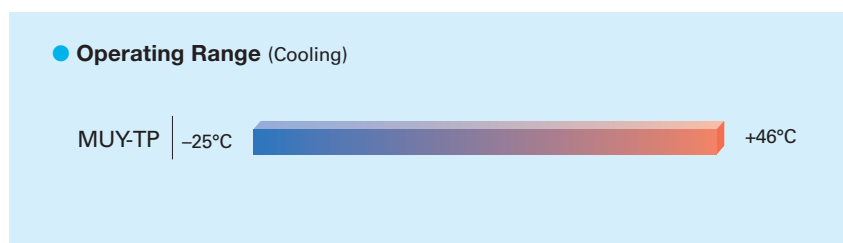


## High Energy-Saving Performance with High SHF



## Wide Cooling Operating Range

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



# MSY-TP SERIES



## Indoor Unit

R32



MSY-TP35/50VF

## Outdoor Unit

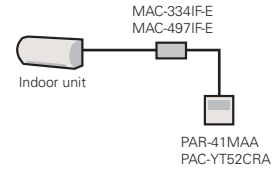
R32



MUY-TP35/TP50VF

## Remote Controller

- Wired remote controller can be connected to indoor unit.



Type				Inverter Heat Pump				
Indoor Unit				MSY-TP35VF		MSY-TP50VF		
Outdoor Unit				MUY-TP35VF		MUY-TP50VF		
Refrigerant				R32 <sup>(1)</sup>				
Power Supply	Source			Indoor Power supply				
	Outdoor ( V / Phase / Hz )			230V / Single / 50Hz				
Cooling	Design load		kW	3.5		5.0		
	Annual electricity consumption <sup>(2)</sup>		kWh/a	136		218		
	SEER <sup>(4)</sup>			9.0		8.0		
	Energy efficiency class	A+++			A++			
	Capacity	Rated	kW	3.5		5.0		
Min-Max		kW	1.5 - 4.0		1.5 - 5.7			
Total Input		Rated	kW	0.760		1.450		
Heating (Average Season) <sup>(3)</sup>	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 <sup>(2)</sup>		kWh/a	-		-		
	SCOP <sup>(4)</sup>			-		-		
	Energy efficiency class	-			-			
	Capacity	Rated	kW	-		-		
		Min-Max	kW	-		-		
Total Input		Rated	kW	-		-		
Operating Current (Max)			A	9.6		9.6		
Indoor Unit	Input	Rated	kW	0.033		0.034		
	Operating Current (Max)		A	0.4		0.4		
	Dimensions		H*W*D	mm		305-923-250		
	Weight		kg	12.5		12.5		
	Air Volume (Lo-Mid-Hi-SH) <sup>(5)</sup>	Cooling	m <sup>3</sup> /min	10.1 - 11.6 - 13.7 - 16.4		10.1 - 11.6 - 13.7 - 16.4		
		Heating	m <sup>3</sup> /min	-		-		
	Sound Level (SPL) (Lo-Mid-Hi-SH) <sup>(5)</sup>	Cooling	dB(A)	31 - 36 - 40 - 45		31 - 36 - 40 - 45		
		Heating	dB(A)	-		-		
	Sound Level (PWL)	Cooling	dB(A)	60		60		
		Heating	dB(A)	-		-		
	Breaker Size		A	10		10		
	Outdoor Unit	Dimensions		H*W*D	mm		550-800-285	
		Weight		kg	34		34	
		Air Volume	Cooling	m <sup>3</sup> /min	29.3		29.3	
Heating			m <sup>3</sup> /min	-		-		
Sound Level (SPL)		Cooling	dB(A)	45		47		
		Heating	dB(A)	-		-		
Sound Level (PWL)		Cooling	dB(A)	58		61		
		Heating	dB(A)	-		-		
Operating Current (Max)		A	9.2		9.2			
Ext. Piping		Diameter	Liquid/Gas	mm	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	-25 ~ +46			
			Heating	°C	-			

(\*) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO<sub>2</sub> over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.  
The GWP of R32 is 675 in the IPCC 4th Assessment Report.

(2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(3) SHi: Super High

(4) SEER and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011.

# MFZ SERIES

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

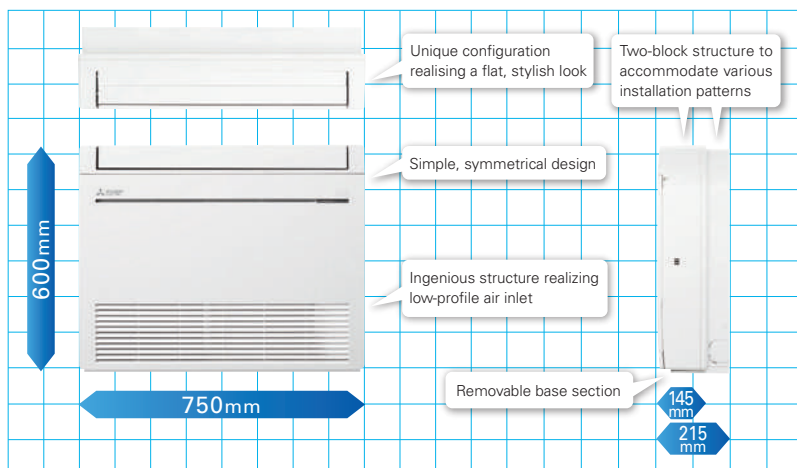
MFZ-KT25/35/50/60VG

R32



## 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

#### Standard



#### Semi-inbuilt



## New Line-up

New models have been introduced to expand the line-up. The diverse selection enables the best solution for both customers and locations.

Capacity	2.5kW	3.5kW	5.0kW	6.0kW
MFZ-KJ	✓	✓	✓	
↓				
MFZ-KT	✓	✓	✓	✓

## Multi-flow Vane

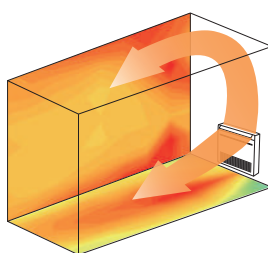
Three uniquely shaped vanes control the airflow and allow the freedom to customize comfort according to preferences.

### When heating

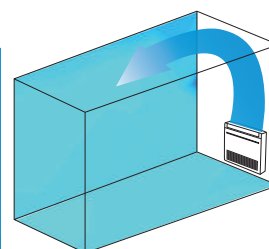


#### Rapid heating

Warm air is blown out in a downward direction and then sucked back into the unit to quickly raise the temperature of the air being blown out.



### When cooling



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

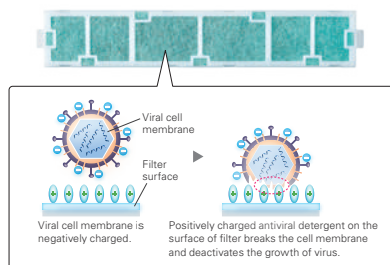
## Weekly Timer (Introduced in response to market demand)

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.

## V Blocking Filter



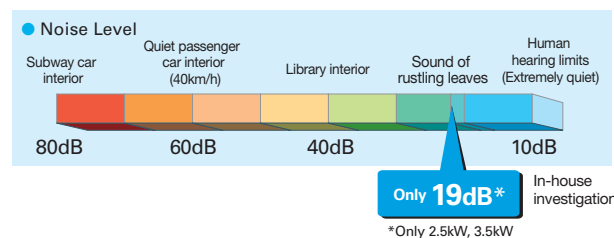
V Blocking Filter with antiviral effect inhibits 99% of adhered virus, and other harmful substances, such as bacteria, mold and allergen. Two-layered filter with non-woven fabric and electrostatic filter can effectively capture and remove small particles from the air in your room.



## Quiet Operation

The indoor unit noise level is as low as 19dB for MFZ Series, offering a peaceful inside environment.

\* Single connection only.



# MFZ-KT SERIES



## Indoor Unit

R32



MFZ-KT25/35/50/60VG

## Outdoor Unit

R32



SUZ-M25/35VA



SUZ-M50VA



SUZ-M60VA

## Remote Controller



Enclosed in MFZ-KT



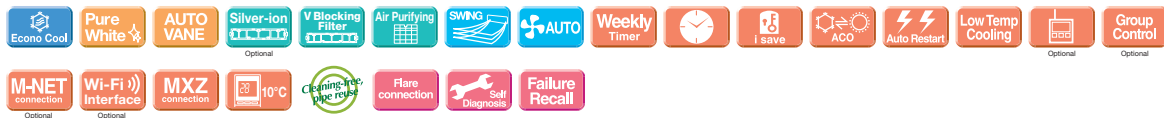
\*optional



\*optional



\*optional



Type			Inverter Heat Pump			
Indoor Unit			MFZ-KT25VG	MFZ-KT35VG	MFZ-KT50VG	MFZ-KT60VG
Outdoor Unit			SUZ-M25VA	SUZ-M35VA	SUZ-M50VA	SUZ-M60VA
Refrigerant			R32 <sup>(*)</sup>	R32 <sup>(*)</sup>	R32 <sup>(*)</sup>	R32 <sup>(*)</sup>
Power Supply	Source		Outdoor power supply			
	Outdoor(V/Phase/Hz)		230 / Single / 50			
Cooling	Design load	kW	2.5	3.5	5.0	6.1
	Annual electricity consumption <sup>(2)</sup>	kWh/a	134	185	257	343
	SEER <sup>(4), (5)</sup>		6.5	6.6	6.8	6.2
	Capacity	Energy efficiency class	A++	A++	A++	A++
		Rated	2.5	3.5	5.0	6.1
	Total Input	kW	1.6 - 3.2	0.9 - 3.9	1.2 - 5.6	1.7 - 6.3
Heating (Average Season)	Design load	kW	2.2	2.6	4.3	4.6
	Declared Capacity	at reference design temperature	kW	2.0 (-10°C)	3.5 (-10°C)	4.1 (-10°C)
		at bivalent temperature	kW	2.0 (-7°C)	2.3 (-7°C)	4.1 (-7°C)
		at operation limit temperature	kW	2.0 (-10°C)	2.3 (-10°C)	4.1 (-10°C)
	Back up heating capacity	kW	0.2	0.3	0.8	0.5
	Annual electricity consumption <sup>(2)</sup>	kWh/a	732	825	1423	1568
	SCOP <sup>(4), (5)</sup>		4.2	4.4	4.2	4.1
	Capacity	Energy efficiency class	A+	A+	A+	A+
		Rated	3.4	4.3	6.0	7.0
	Total Input	kW	1.3 - 4.2	1.1 - 5.0	1.5 - 7.2	1.6 - 8.0
Operating Current (Max)						
Indoor Unit	Input	Rated	kW	0.020 / 0.024	0.037 / 0.052	0.063 / 0.059
	Operating Current(Max)	A		0.20	0.45	0.55
	Dimensions	H*W*D	mm	600-750-215	600-750-215	600-750-215
	Weight	kg		14.5	14.5	15.0
	Air Volume (SLo-Lo-Mid-Hi-SHi <sup>(3)</sup> )	Cooling	m³/min	3.9 - 4.8 - 6.5 - 7.8 - 8.9	5.6 - 6.7 - 8.6 - 10.4 - 12.3	5.6 - 8.0 - 9.6 - 12.3 - 15.0
		Heating	m³/min	3.5 - 4.0 - 5.6 - 7.3 - 9.7	6.0 - 7.7 - 9.4 - 11.6 - 14.0	6.0 - 7.7 - 9.7 - 12.5 - 14.6
	Sound Level (SPL) (SLo-Lo-Mid-Hi-SHi <sup>(3)</sup> )	Cooling	dB(A)	19 - 24 - 31 - 37 - 41	28 - 32 - 37 - 42 - 48	28 - 36 - 40 - 46 - 53
		Heating	dB(A)	19 - 23 - 30 - 37 - 44	29 - 35 - 40 - 44 - 49	29 - 35 - 41 - 47 - 51
	Sound Level (PWL)	Cooling	dB(A)	54	54	60
	Dimensions	H*W*D	mm	550-800-285	550-800-285	714-800-285
Outdoor Unit	Weight	kg		30	35	41
	Air Volume	Cooling	m³/min	36.3	34.3	45.8
		Heating	m³/min	34.6	32.7	43.7
	Sound Level (SPL)	Cooling	dB(A)	45	48	48
		Heating	dB(A)	46	48	49
	Sound Level (PWL)	Cooling	dB(A)	59	59	64
		Heating	dB(A)	59	59	65
	Operating Current(Max)	A		7	9	14
	Breaker Size	A		10	10	16
	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7
Ext. Piping	Max.Length	Out-In	m	20	20	30
	Max.Height	Out-In	m	12	12	30
	Guaranteed Operating Range	Cooling	°C	-10 ~ +46	-10 ~ +46	-15 ~ +46
[Outdoor]			Heating	°C	-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 were to be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

The GWP of R410A is 2088 in the IPCC 4th Assessment Report.

(\*)2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(\*)3 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 SEER and SCOP are based on 2009/125/EC Energy-related Products Directive and Regulation (EU) No 206/2012.



# MFZ-KW SERIES



## Indoor Unit

R32  
Single



MFZ-KW25/35/50/60VG



GOOD DESIGN  
AWARD 2014

## Outdoor Unit



MUFZ-KW25/35VGHZ



MUFZ-KW50/60VGHZ

## Remote Controller



Type			Inverter Heat Pump			
Indoor Unit			MFZ-KW25VG	MFZ-KW35VG	MFZ-KW50VG	MFZ-KW60VG
Outdoor Unit			MUFZ-KW25VGHZ	MUFZ-KW35VGHZ	MUFZ-KW50VGHZ	MUFZ-KW60VGHZ
Refrigerant			R32 (*1)			
Power Supply	Source		Outdoor power supply			
	Outdoor (V/Phase/Hz)		230 / Single / 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
		Min - Max	kW	0.7 - 3.6	0.7 - 4.3	1.0 - 5.8
	Total Input	Rated	kW	0.57	0.90	1.36
						1.73
Heating (Average Season)	Design Load	kW	3.5	3.6	4.5	4.8
	Declared Capacity	at reference design temperature	kW	3.5 (-10°C)	4.5 (-10°C)	4.8 (-10°C)
		at bivalent temperature	kW	3.5 (-10°C)	3.6 (-10°C)	4.8 (-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 (-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		A+	A+	A+	A+
	Capacity	Rated	kW	3.4	4.3	6.0
		Min - Max	kW	0.2 - 5.1	0.2 - 6.0	1.2 - 9.0
Indoor Unit	Total Input	Rated	kW	0.83	1.21	1.60
						1.88
	Operating Current (max)	A	9.9	10.3	15.3	15.4
	Input (Cooling/Heating)	Rated	kW	0.019/0.025	0.019/0.025	0.026/0.052
						0.063/0.059
	Operating Current (max)	A	0.22	0.22	0.47	0.55
	Dimensions	H x W x D	mm	600 - 750 - 215		
	Weight	kg	15	15	15	15
	Air Volume (SLo-Lo-Mid-Hi-SHi) (*3)	Cooling	m³/min	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 - 15.0
		Heating	m³/min	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
Outdoor Unit	Sound Level (SPL) (SLo-Lo-Mid-Hi-SHi) (*3)	Cooling	dB(A)	20 - 25 - 30 - 35 - 39	27 - 31 - 35 - 39 - 44	27 - 35 - 39 - 46 - 53
		Heating	dB(A)	18 - 25 - 30 - 35 - 41	29 - 35 - 40 - 45 - 50	29 - 35 - 41 - 47 - 51
	Sound Level (PWL)		dB(A)	49	50	56
	Dimensions	H x W x D	mm	550 - 800 - 285		
						880 - 840 - 330
	Weight	kg	35	35	54	54
	Air Volume	Cooling	m³/min	32.7	43.8	48.8
		Heating	m³/min	27.3	46.3	51.3
	Sound Level (SPL)	Cooling	dB(A)	47	50	52
		Heating	dB(A)	46	54	56
Ext. Piping	Sound Level (PWL)		dB(A)	61	65	66
	Operating Current (max)	A	9.6	10.0	14.8	14.8
	Breaker Size		A	10	12	16
	Diameter	Liquid / Gas	mm	6.35 / 9.52	6.35 / 12.7	6.35 / 12.7
	Max. Length		m	20	30	30
	Max. Height		m	12	15	15
	Guaranteed Operating Range (Outdoor)	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46
		Heating	°C	-25 ~ +24	-25 ~ +24	-25 ~ +24

(\*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1kg of CO<sub>2</sub> over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.  
The GWP of R410A is 2088 in the IPCC 4th Assessment Report.

(\*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(\*3) SHi: Super High

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



# MLZ SERIES

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

MLZ-KP25/35/50VF

R32

MLZ-KY20VG

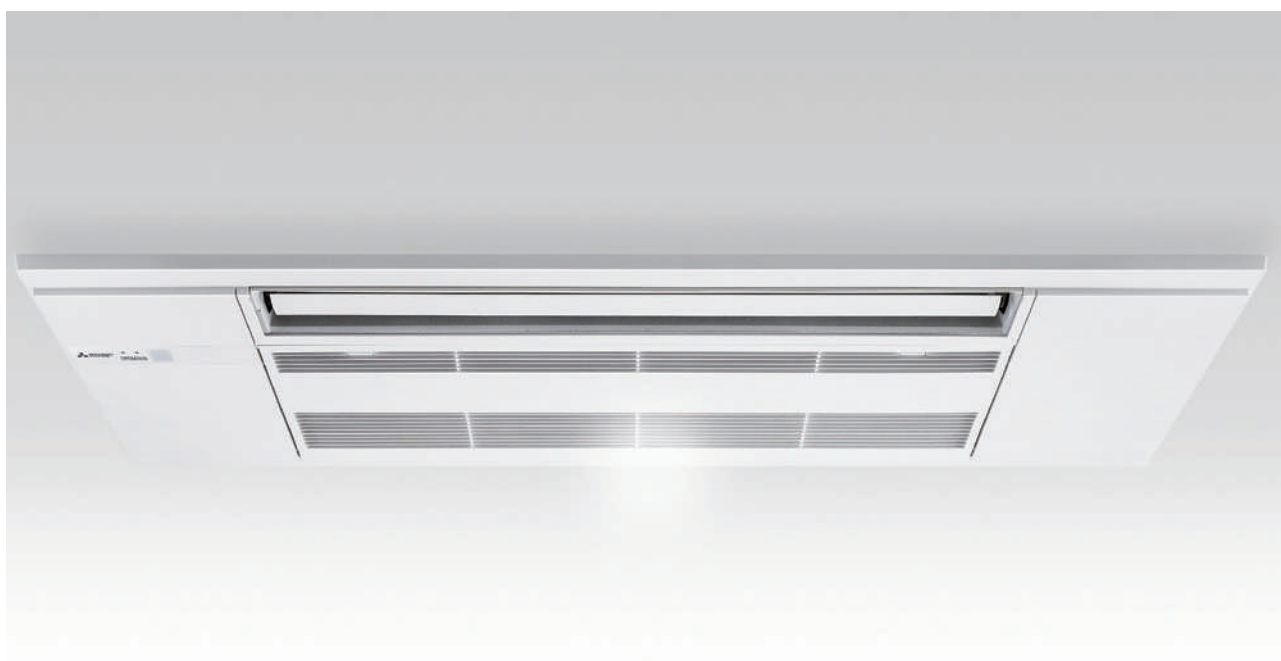


reddot award 2018  
winner



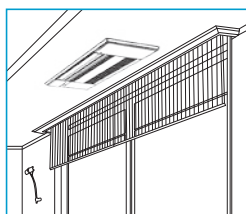
## Slim Design KY KP

Industry leading slim body realized a simple design with linear beauty.



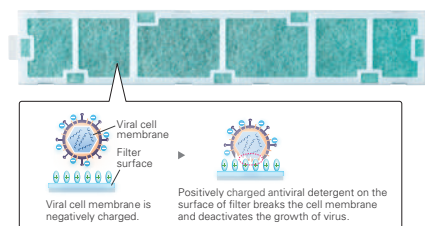
## Ceiling Mounted KY KP

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 book shelves are mounted on wall surfaces.



## V Blocking Filter KY

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.



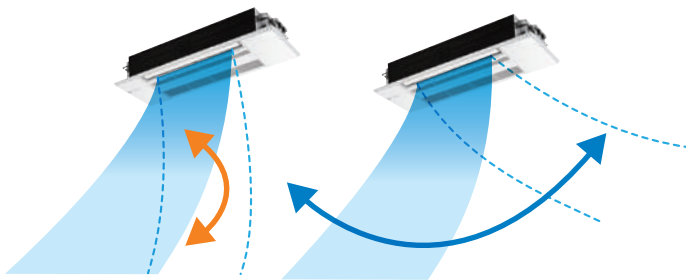
## Set Airflow According to Ceiling Height KY KP

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.

	20	25	35	50
Standard	2.4m	2.4m	2.4m	2.4m
High ceiling	2.7m	2.7m	2.7m	2.7m

## Auto Vane Control KY KP

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.



**Up and Down**

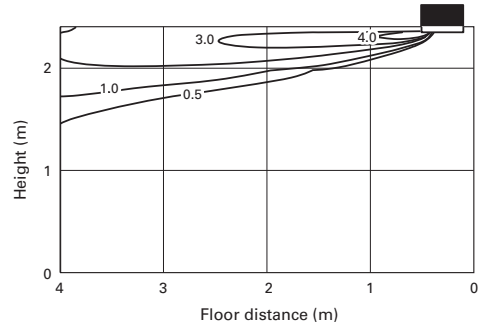
**Left and Right**

\*Only available when Econo Cool is set.

## Horizontal Airflow KY KP

The new airflow control completely eliminates that uncomfortable drafty-feeling with the introduction of a horizontal airflow that spreads across the ceiling. The ideal airflow for offices and restaurants.

[Horizontal Airflow]  
Model name: MLZ-KP35VF  
Ceiling height: 2.4m  
Model: Cooling



## Weekly Timer Built-in Weekly Timer Function KY KP

Easily set desired temperatures and operation ON/OFF 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 22°C	ON 22°C	ON 22°C	ON 22°C	ON 22°C	ON 22°C	ON 22°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 10°C	ON 10°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.

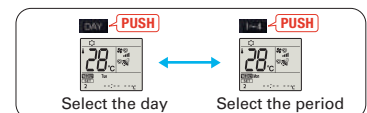


How to set the Weekly Timer

Ready to set



Complete



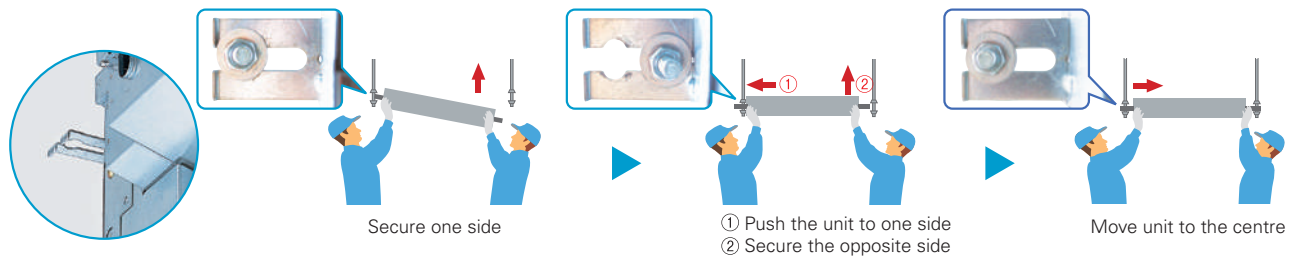
- Start by pushing the "SET" button and follow the instructions to set the desired patterns. Once all of the desired patterns are input, point the top end of the remote controller at the indoor unit and push the "SET" button one more time. (Push the "SET" button only after inputting all of the desired 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.



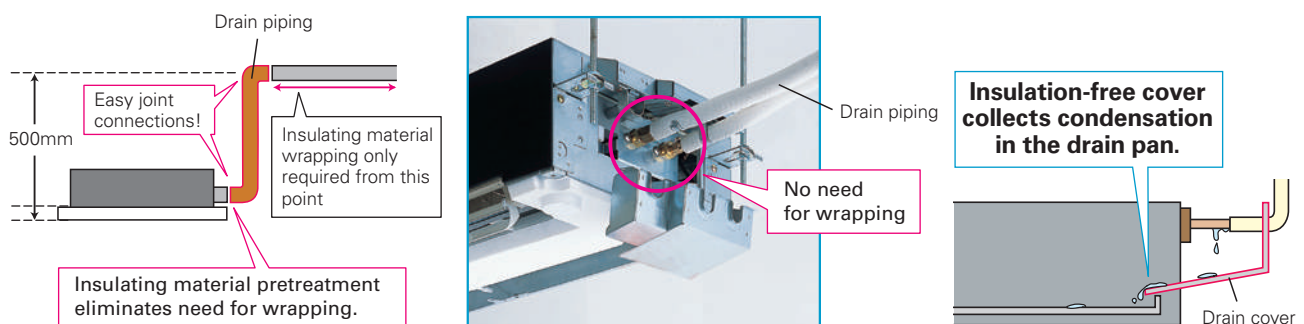
## Easy Installation

### Temporary hanging hook KY KP

Work efficiency has improved during installation.

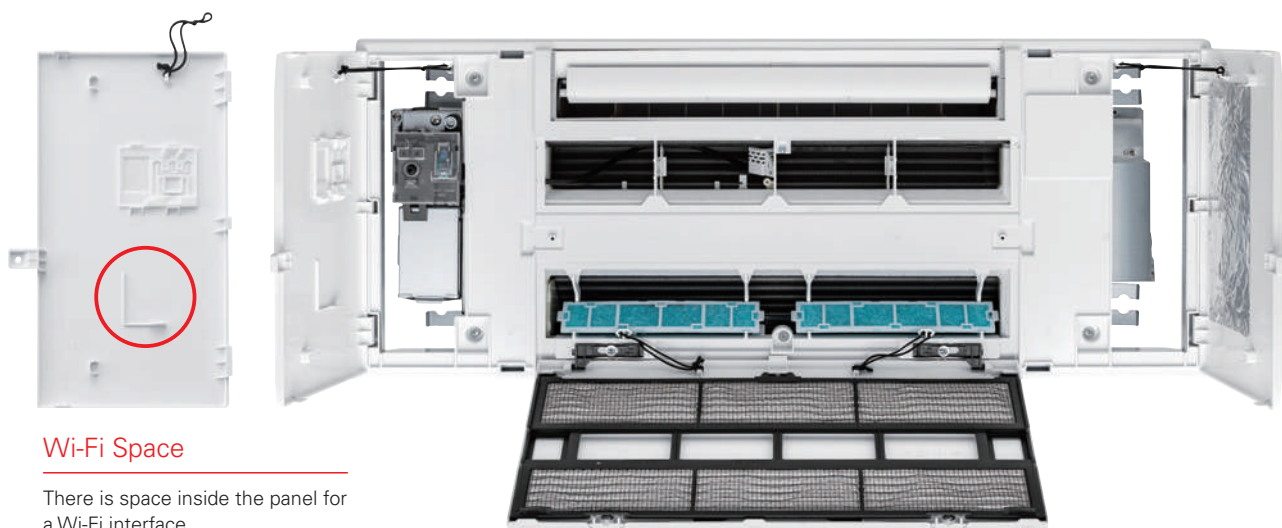


### Refrigerant Piping Supporters + Drain Cover KY KP



### High Serviceability KY KP

No need to put off the panel even when the unit has some troubles to be checked inside. Simply open the panel to see the inside of the unit.



# MLZ SERIES



## Indoor Unit R32



MLZ-KP25/35/50VF



## R32



MLZ-KY20VG

## Panel

MLP-444W

MLP-448W

## Outdoor Unit



SUZ-M25/35VA



SUZ-M50VA

For Multi Connection Only

## Remote Controller



Built in MLZ-KP/KY



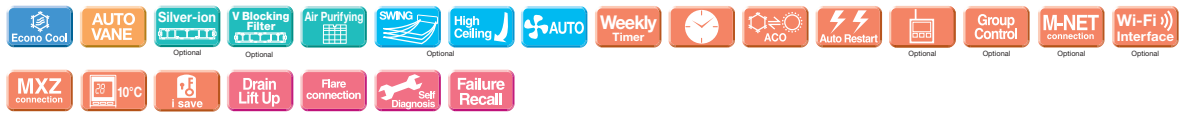
\*optional



\*optional



\*optional



Type			Inverter Heat Pump			
Indoor Unit			MLZ-KY20VG	MLZ-KP25VF	MLZ-KP35VF	MLZ-KP50VF
Outdoor Unit			For Multi connection only	SUZ-M25VA	SUZ-M35VA	SUZ-M50VA
Refrigerant			R32 <sup>(1)</sup>			
Power Supply	Source		Outdoor Power supply			
	Outdoor (V / Phase / Hz)		230 / Single / 50			
Cooling	Design load	kW	—	2.5	3.5	5.0
	Annual electricity consumption <sup>(2)</sup>	kWh/a	—	141	175	260
	SEER <sup>(4),(5)</sup>		—	6.2	7.0	6.7
	Energy efficiency class		—	A++	A++	A++
			—	2.5	3.5	5.0
	Capacity		—	1.4 - 3.2	0.8 - 3.9	1.7 - 5.6
	Total Input	kW	—	0.59	0.94	1.38
Heating (Average Season)	Design load	kW	—	2.2	2.6	4.3
	Declared Capacity	at reference design temperature	—	2.0 (-10°C)	2.3 (-10°C)	3.8 (-10°C)
		at bivalent temperature	—	2.0 (-7°C)	2.3 (-7°C)	3.8 (-7°C)
		at operation limit temperature	—	2.0 (-10°C)	2.3 (-10°C)	3.8 (-10°C)
	Back up heating capacity	kW	—	0.2	0.3	0.5
	Annual electricity consumption <sup>(2)</sup>	kWh/a	—	697	791	1397
	SCOP <sup>(4),(5)</sup>		—	4.4	4.6	4.3
	Energy efficiency class		—	A+	A++	A+
			—	3.2	4.1	6.0
	Capacity		—	1.4 - 4.2	1.1 - 4.9	1.7 - 7.2
Operating Current (Max)	Total Input	kW	—	0.80	1.10	1.86
	Input	kW	0.012	0.04	0.04	0.04
	Operating Current(Max)	A	0.12	0.40	0.40	0.40
	Dimensions	H*W*D	mm	194-842-301	185-1102-360	185-1102-360
	Weight	kg	14	15.5	15.5	15.5
	Air Volume (SLo-Le-Mid-Hi <sup>(3)</sup> )	Cooling	m <sup>3</sup> /min	4.3-4.7-5.2-5.6	6.0-7.2-8.0-8.8	6.0-7.3-8.4-9.4
		Heating	m <sup>3</sup> /min	4.3-4.9-5.5-6.0	6.0-7.0-8.2-9.2	6.0-7.7-8.8-9.9
Indoor Unit	Sound Level (SPL) (SLo-Le-Mid-Hi <sup>(3)</sup> )	Cooling	dB(A)	30-32-34-37	27-31-34-38	27-32-36-40
		Heating	dB(A)	29-32-35-58	29-32-34-37	26-32-36-40
	Sound Level (PWL)	Cooling	dB(A)	40-42-44-50	52	53
		Heating	dB(A)	40-42-44-50	52	59
	Dimensions	H*W*D	mm	34-915-370	24-1200-424	24-1200-424
	Weight	kg	3.8	3.5	3.5	3.5
	Dimensions	H*W*D	mm	—	550-800-285	550-800-285
Outdoor Unit	Weight	kg	—	30	35	41
	Air Volume	Cooling	m <sup>3</sup> /min	—	36.3	34.3
		Heating	m <sup>3</sup> /min	—	34.6	32.7
	Sound Level (SPL)	Cooling	dB(A)	—	45	48
		Heating	dB(A)	—	46	48
	Sound Level (PWL)	Cooling	dB(A)	—	59	59
		Heating	dB(A)	—	59	64
Ext. Piping	Operating Current (Max)	A	—	6.8	8.5	13.5
	Breaker Size	A	—	10	10	20
	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35/12.7
	Max.Length	Out-In	m	—	20	30
	Max.Height	Out-In	m	—	12	30
	Guaranteed Operating Range (Outdoor)	Cooling	°C	—	-10~+46	-15~+46
		Heating	°C	—	-10~+24	-10~+24

# Specification on Warmer/Colder Condition

Type			Inverter Heat Pump		
Indoor Unit			MSZ-RW25VG	MSZ-RW35VG	MSZ-RW50VG
Outdoor Unit			MUZ-RW25VGHZ	MUZ-RW35VGHZ	MUZ-RW50VGHZ
Refrigerant			R32 <sup>(*)</sup>		
Cooling	Design load	kW	2.5	3.5	5.0
	Annual electricity consumption <sup>(*)</sup>	kWh/a	78	130	230
	SEER		11.2	9.4	7.6
	Energy efficiency class		A+++	A+++	A++
Heating (Warmer Season)	Design load	kW	1.8	2.2	3.3
	Declared Capacity	at reference design temperature	kW	1.8	2.2
		at bi-valent temperature	kW	1.8	2.2
		at operation limit temperature	kW	2.6	2.6
	Back up heating capacity	kW	0.0	0.0	0.0
	Annual electricity consumption <sup>(*)</sup>	kWh/a	372	469	715
	SCOP		6.7	6.5	6.4
Heating (Colder Season)	Design load	kW	4.7	5.9	8.8
	Declared Capacity	at reference design temperature	kW	3.7	4.0
		at bi-valent temperature	kW	3.2	4.0
		at operation limit temperature	kW	2.6	2.6
	Back up heating capacity	kW	1.0	1.9	3.2
	Annual electricity consumption <sup>(*)</sup>	kWh/a	2407	3083	5157
	SCOP		4.1	4.0	3.5
	Energy efficiency class		A+	A+	A

Type			Inverter Heat Pump						
Indoor Unit			MSZ-LN25VG2		MSZ-LN35VG2		MSZ-LN50VG2		MSZ-LN60VG2
Outdoor Unit			MUZ-LN25VG2	MUZ-LN25VGHZ2	MUZ-LN35VG2	MUZ-LN35VGHZ2	MUZ-LN50VG2	MUZ-LN50VGHZ	MUZ-LN60VG2
Refrigerant			R32 <sup>(*)</sup>						
Cooling	Design load	kW	2.5	2.5	3.5	3.5	5	5.0	6.1
	Annual electricity consumption <sup>(*)</sup>	kWh/a	83	83	129	130	205	230	285
	SEER		10.5	10.5	9.5	9.4	8.5	7.6	7.5
	Energy efficiency class		A+++	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)	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 bi-valent 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)	2.3 (-25°C)	3.2 (-15°C)	3.1 (-25°C)	4.2 (-15°C)	4.7 (-15°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)	0.0 (2°C)
	Annual electricity consumption <sup>(*)</sup>	kWh/a	369	382	431	467	602	779	779
	SCOP		6.4	6.6	6.5	6.5	5.8	5.9	5.9
Heating (Colder Season)	Design load	kW	—	4.7 (-22°C)	—	5.9 (-22°C)	—	8.8 (-22°C)	—
	Declared Capacity	at reference design temperature	kW	—	2.6 (-22°C)	—	3.4 (-22°C)	—	5.1 (-22°C)
		at bi-valent 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	—	2.1 (-22°C)	—	2.5 (-22°C)	—	3.7 (-22°C)	—
	Annual electricity consumption <sup>(*)</sup>	kWh/a	—	2425	—	3075	—	5340	—
	SCOP		—	4.0	—	4.0	—	3.4	—
	Energy efficiency class		—	A+	—	A+	—	A	—

Type			Inverter Heat Pump		
Indoor Unit			MSZ-FT25VG	MSZ-FT35VG	MSZ-FT50VG
Outdoor Unit			MUZ-FT25VGHZ	MUZ-FT35VGHZ	MUZ-FT50VGHZ
Refrigerant			R32 <sup>(*)</sup>		
Cooling	Design load	kW	2.5	3.5	5.0
	Annual electricity consumption <sup>(*)</sup>	kWh/a	101	142	243
	SEER		8.6	8.6	7.2
	Energy efficiency class		A+++	A+++	A++
Heating (Warmer Season)	Design load	kW	1.8 (2°C)	2.2 (2°C)	2.7 (2°C)
	Declared Capacity	at reference design temperature	kW	1.8 (2°C)	2.2 (2°C)
		at bi-valent temperature	kW	1.8 (2°C)	2.2 (2°C)
		at operation limit temperature	kW	3.0 (-25°C)	3.4 (-25°C)
	Back up heating capacity	kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
	Annual electricity consumption <sup>(*)</sup>	kWh/a	432	527	684
	SCOP		5.8	5.8	5.5
Heating (Colder Season)	Design load	kW	4.7 (-22°C)	5.9 (-22°C)	7.4 (-22°C)
	Declared Capacity	at reference design temperature	kW	3.1 (-22°C)	3.7 (-22°C)
		at bi-valent temperature	kW	3.2 (-10°C)	4.0 (-10°C)
		at operation limit temperature	kW	3.0 (-25°C)	3.4 (-25°C)
	Back up heating capacity	kW	1.6 (-22°C)	2.2 (-22°C)	3.4 (-22°C)
	Annual electricity consumption <sup>(*)</sup>	kWh/a	2766	3453	4707
	SCOP		3.5	3.5	3.3
	Energy efficiency class		A	A	B

Type			Inverter Heat Pump									
Indoor Unit			MSZ-AY15VGK(P)	MSZ-AY20VGK(P)	MSZ-AY25VGK(P)	MSZ-AY35VGK(P)	MSZ-AY35VGK(P)	MSZ-AY42VGK(P)	MSZ-AY42VGK(P)	MSZ-AY50VGK(P)	MSZ-AY50VGK(P)	MSZ-AY60VGK(P)
Outdoor Unit			MUZ-AY15VG	MUZ-AY20VG	MUZ-AY25VG	MUZ-AY25VGH	MUZ-AY35VG	MUZ-AY35VGH	MUZ-AY42VG	MUZ-AY42VGH	MUZ-AY50VG	MUZ-AY60VGH
Refrigerant			R32 <sup>(*)</sup>									
Cooling	Design load	kW	—	—	2.5	2.5	3.5	3.5	4.2	4.2	5.0	5.0
	Annual electricity consumption <sup>(*)</sup>	kWh/a	—	—	100	100	141	141	186	186	232	232
	SEER <sup>(*)</sup>		—	—	8.7	8.7	8.7	8.7	7.9	7.9	7.5	7.5
	Energy efficiency class		—	—	A+++	A+++	A+++	A+++	A++	A++	A++	A++
Heating (Warmer Season)	Design load	kW	0.9 (2°C)	1.3 (2°C)	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)	2.3 (2°C)
	Declared Capacity	at reference design temperature	kW	0.9 (2°C)	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)	2.3 (2°C)
		at bi-valent temperature	kW	0.9 (2°C)	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)	2.3 (2°C)
		at operation limit temperature	kW	1.6 (-15°C)	1.8 (-20°C)	1.9 (-20°C)	1.9 (-20°C)	2.0 (-20°C)	2.0 (-20°C)	2.7 (-20°C)	3.0 (-20°C)	3.0 (-20°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)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
	Annual electricity consumption <sup>(*)</sup>	kWh/a	267	350	319	319	376	376	495	495	523	523
	SCOP		4.7	5.2	5.7	5.7	5.9	5.9	5.9	5.9	6.1	6.1
	Energy efficiency class		A++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++

Type			Inverter Heat Pump		
Indoor Unit			MSZ-AP60V/G(K)	MSZ-AP71V/G(K)	
Outdoor Unit			MUZ-AP60V/G	MUZ-AP71V/G	
Refrigerant			R32 <sup>(*)</sup>		
Cooling	Design load		kW	6.1	7.1
	Annual electricity consumption <sup>(2)</sup>		kWh/a	288	345
	SEER			7.4	7.2
	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 <sup>(2)</sup>		kWh/a	627	891
	SCOP			5.5	5.8
		Energy efficiency class	A+++	A+++	

Type			Inverter Heat Pump						
Indoor Unit			MSZ-EF25VG		MSZ-EF35VG		MSZ-EF42VG	MSZ-EF50VG	
Outdoor Unit			MUZ-EF25VG	MUZ-EF25VGH	MUZ-EF35VG	MUZ-EF35VGH	MUZ-EF42VG	MUZ-EF50VG	
Refrigerant			R32 <sup>(*)</sup>						
Cooling	Design load		kW	2.5	2.5	3.5	3.5	4.2	5.0
	Annual electricity consumption <sup>(*)</sup>		kWh/a	96	96	139	139	186	233
	SEER			9.1	9.1	8.8	8.8	7.9	7.5
		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)	2.0 (-15°C)	2.4 (-15°C)	2.4 (-15°C)	3.4 (-15°C)	3.5 (-15°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 <sup>(*)</sup>		kWh/a	311	311	398	398	489	595
	SCOP			5.9	5.9	5.6	5.6	6.0	5.4
		Energy efficiency class		A+++	A+++	A+++	A+++	A+++	A+++

Type			Inverter Heat Pump				
Indoor Unit			MSZ-BT20VG	MSZ-BT25VG	MSZ-BT35VG	MSZ-BT50VG	
Outdoor Unit			MUZ-BT20VG	MUZ-BT25VG	MUZ-BT35VG	MUZ-BT50VG	
Refrigerant			R32 <sup>(*)</sup>				
Cooling	Design load		kW	2.0	2.5	3.5	5.0
	Annual electricity consumption <sup>(2)</sup>		kWh/a	86	108	180	265
	SEER			8.1	8.1	6.8	6.6
	Energy efficiency class			A++	A++	A++	A++
Heating (Warmer Season)	Design load		kW	0.9 (2°C)	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)
	Declared Capacity	At reference design temperature	kW	0.9 (2°C)	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)
		at bivalent temperature	kW	0.9(2°C)	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)
		at operation limit temperature	kW	1.3 (-15°C)	1.7 (-15°C)	2.1 (-15°C)	3.4 (-15°C)
	Back up heating capacity		kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
	Annual electricity consumption <sup>(2)</sup>		kWh/a	234	268	304	543
	SCOP <sup>(*)</sup>			5.3	5.7	5.9	5.4
		Energy efficiency class		A+++	A+++	A+++	A+++

Type			Inverter Heat Pump						
Indoor Unit			MSZ-HR25VF	MSZ-HR35VF	MSZ-HR42VF	MSZ-HR50VF	MSZ-HR60VF	MSZ-HR71VF	
Outdoor Unit			MUZ-HR25VF	MUZ-HR35VF	MUZ-HR42VF	MUZ-HR50VF	MUZ-HR60VF	MUZ-HR71VF	
Refrigerant			R32 <sup>(*)</sup>						
Cooling	Design load		kW	2.5	3.4	4.2	5.0	6.1	7.1
	Annual electricity consumption <sup>(*)</sup>		kWh/a	141	191	226	269	296	355
	SEER			6.2	6.2	6.5	6.5	7.2	7.0
	Energy efficiency class			A++	A++	A++	A++	A++	A++
Heating (Warmer Season)	Design load		kW	1.1 (2°C)	1.3 (2°C)	1.6 (2°C)	2.1 (2°C)	2.5 (2°C)	3.0 (2°C)
	Declared Capacity	at reference design temperature	kW	1.1 (2°C)	1.3 (2°C)	1.6 (2°C)	2.1 (2°C)	2.5 (2°C)	3.0 (2°C)
		at bivalent temperature	kW	1.1 (2°C)	1.3 (2°C)	1.6 (2°C)	2.1 (2°C)	2.5 (2°C)	3.0 (2°C)
		at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-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)	0.0 (2°C)
	Annual electricity consumption <sup>(*)</sup>		kWh/a	289	344	427	558	640	802
	SCOP			5.3	5.2	5.2	5.2	5.4	5.2
		Energy efficiency class	A+++	A+++	A+++	A+++	A+++	A+++	

Type			Inverter Heat Pump			
Indoor Unit			MSZ-DW25VF	MSZ-DW35VF	MSZ-DW50VF	
Outdoor Unit			MUZ-DW25VF	MUZ-DW35VF	MUZ-DW50VF	
Refrigerant			R32 <sup>(*)</sup>			
Cooling	Design load		kW	2.5	3.4	5.0
	Annual electricity consumption <sup>(**)</sup>		kWh/a	135	184	261
	SEER			6.2	6.2	6.5
	Energy efficiency class			A++	A++	A++
Heating (Warmer Season)	Design load		kW	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)
	Declared Capacity	at reference design temperature	kW	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)
		at bivalent temperature	kW	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)
		at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)
	Back up heating capacity		kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
	Annual electricity consumption <sup>(**)</sup>		kWh/a	287	351	508
	SCOP			5.3	5.1	5.3
	Energy efficiency class			A+++	A+++	A+++

(\*) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub> over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

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

(\*\*\*) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO<sub>2</sub> over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.