

MSZ-AY SERIES

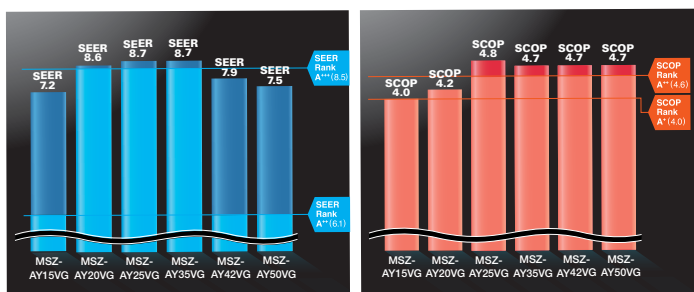
The AY series has an excellent cleanliness feature and ranges to two models: the VGK model comes standard with the V Blocking Filter, which has antiviral, antibacterial, anti-mold, and anti-allergen effects, and the VGKP model comes standard with Plasma Quad Plus, which can collect PM2.5 dust in addition 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.

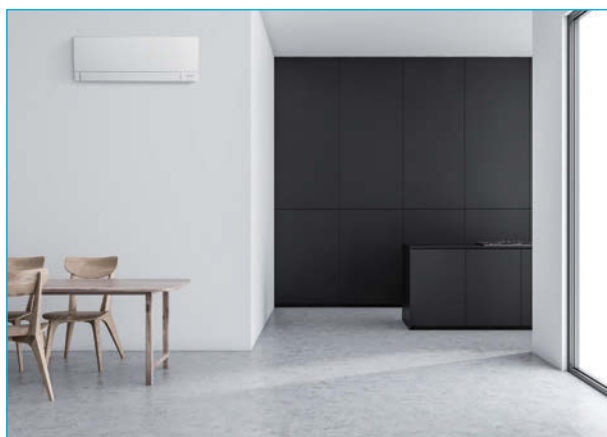
Simple and Compact size

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

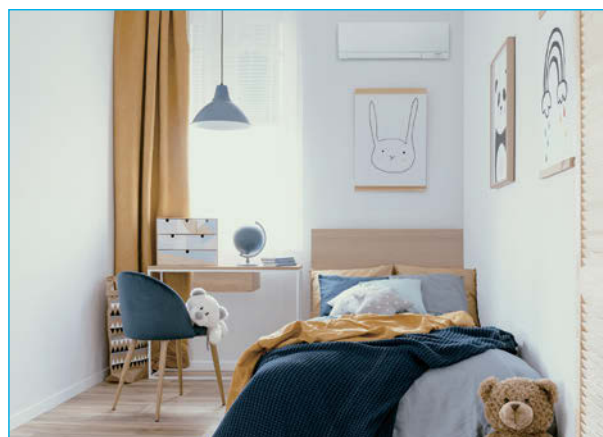
Widely Ranged Capacities

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-AY25/35/42/50VGKP



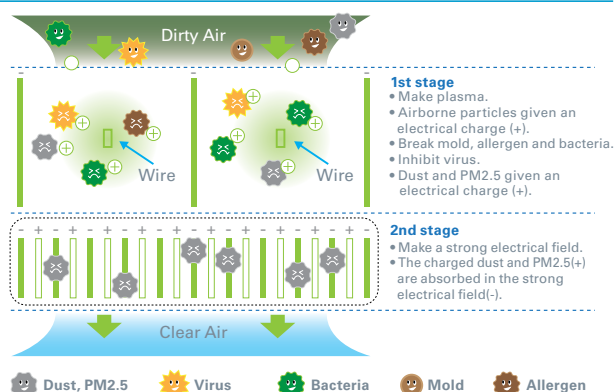
MSZ-AY15/20VGKP

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)

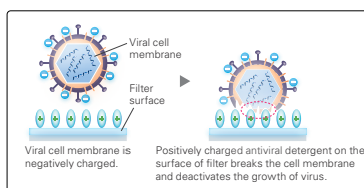
"V Blocking Filter" with antiviral effect inhibits 99% of adhered virus, and other harmful substances, such as bacteria, mold and allergen. Two-layered filter with non-woven fabric and electrostatic filter can effectively capture and remove small particles from the air in your room.

*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.

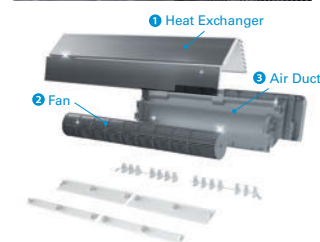
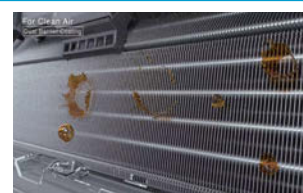
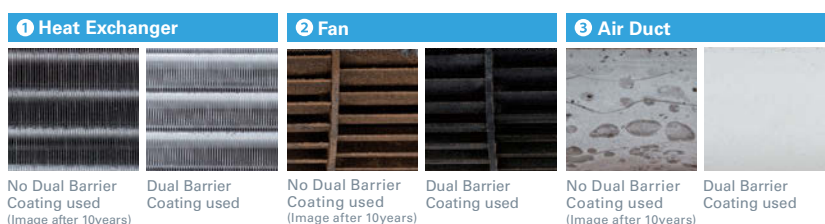
Mold Test method: JIS Z 2911, Tested Organization: Boken Quality Evaluation Institute, Test Report No: 29020006906-1, Test result: No mold growth was confirmed.

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.



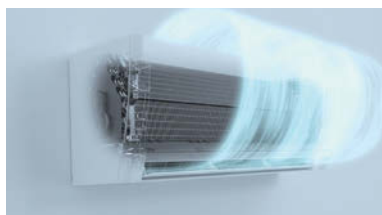
Self Clean

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.

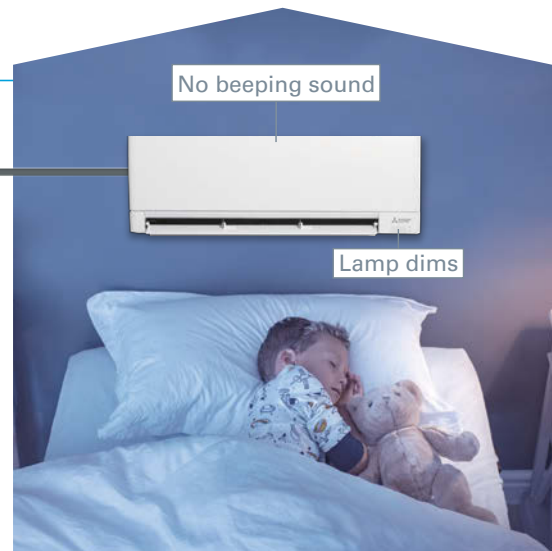


Night mode

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.

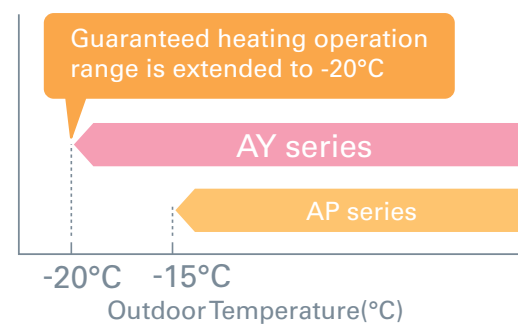
*The cooling/heating capacity may drop.



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



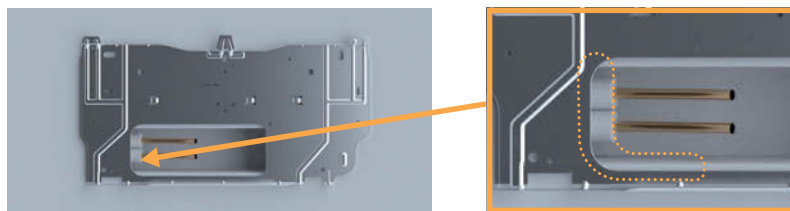
MUZ-AY25/35/42VG



MUZ-AY50VG

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.

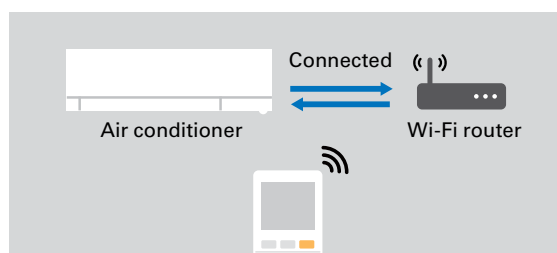
[key control and monitoring features]

- 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

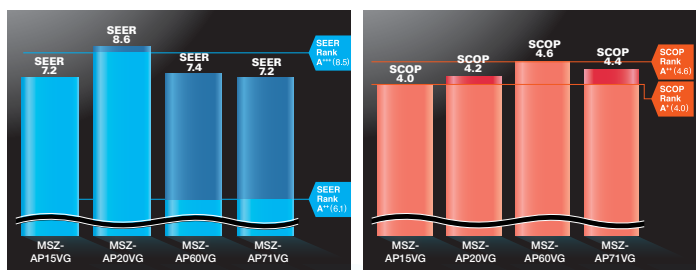


reddot award 2018
winner



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

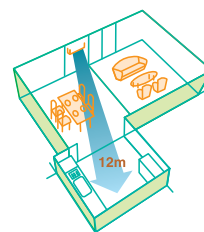
The wide and long airflow function is especially beneficial for large spaces, helping to ensure that air is well circulated and reaches every corner of the room.

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.

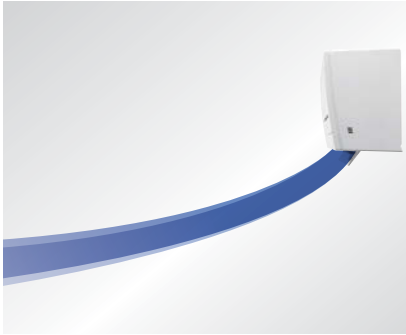
Long Airflow

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.



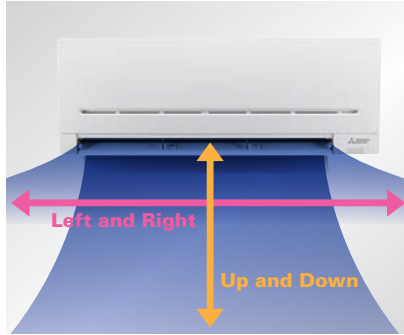
Evolved comfortable convenience function

Horizontal Airflow



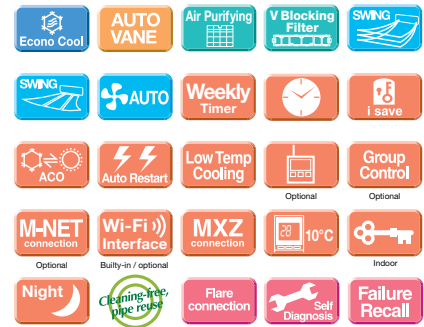
The new airflow control which spreads across the ceiling eliminates the uncomfortable drafty feeling.

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

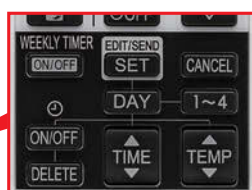
Pattern Settings: Input up to four settings for each day

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

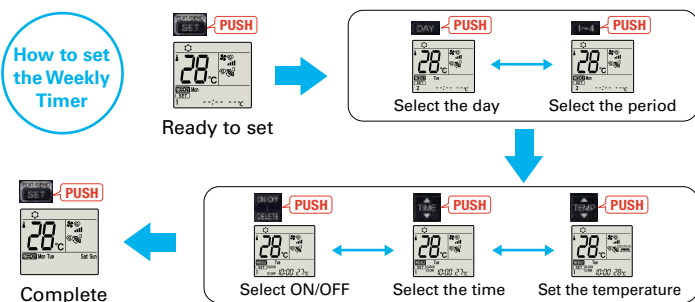
■ Easy set-up using dedicated buttons



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-AY15/20VGKP



MSZ-AY25/35/42/50VGKP

Outdoor Unit

R32



MUZ-AY20VG



MUZ-AY25/35/42VG



MUZ-AY50VG

Remote Controller



Type	Inverter Heat Pump									
Indoor Unit	MSZ-AY15VGKP	MSZ-AY20VGKP	MSZ-AY25VGKP		MSZ-AY35VGKP		MSZ-AY42VGKP		MSZ-AY50VGKP	
Outdoor Unit		MUZ-AY20VG	MUZ-AY25VG		MUZ-AY35VG		MUZ-AY42VG		MUZ-AY50VG	
Refrigerant	R32 ⁽¹⁾									
Power Supply	Outdoor Power supply									
Source	230/Single/50									
Outdoor (V / Phase / Hz)										
Cooling	Design load	kW	1.5	2.0	2.5		3.5		4.2	5.0
	Annual electricity consumption ⁽²⁾	kWh/a	72	81	100		141		186	232
	SEER ⁽⁴⁾		7.2	8.6	8.7		8.7		7.9	7.5
	Energy efficiency class		A++	A+++	A+++		A+++		A++	A++
	Capacity									
Heating (Average Season) ⁽⁵⁾	Rated	kW	1.5	2.0	2.5		3.5		4.2	5.0
	Min-Max	kW	0.5-2.2	0.6-2.7	0.9-3.4		1.1-3.8		0.9-4.5	1.4-5.4
	Total Input	Rated	kW	0.370	0.460	0.600	0.990		1.300	1.540
	Design load	kW	1.6 (-10°C)	2.3 (-10°C)	2.4 (-10°C)		2.9 (-10°C)		3.8 (-10°C)	4.2 (-10°C)
	Declared Capacity	at reference design temperature	kW	1.6 (-10°C)	2.3 (-10°C)	2.4 (-10°C)	2.9 (-10°C)		3.8 (-10°C)	4.2 (-10°C)
		at bivalent temperature	kW	1.6 (-10°C)	2.3 (-10°C)	2.4 (-10°C)	2.9 (-10°C)		3.8 (-10°C)	4.2 (-10°C)
		at operation limit temperature	kW	1.6 (-15°C)	1.8 (-20°C)	1.9 (-20°C)	2.0 (-20°C)		2.7 (-20°C)	3.0 (-20°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)	0.0 (-10°C)
	Annual electricity consumption ⁽²⁾	kWh/a	558	766	697	863	1131		1248	
	SCOP ⁽⁴⁾		4.0	4.2	4.8	4.7	4.7		4.7	
Operating Current (Max)	Energy efficiency class		A+	A+	A++	A++	A++		A++	
	Rated	kW	2.0	2.5	3.2	4.0	5.2		5.5	
	Min	kW	0.5	0.5	1.0	1.3	1.3		1.4	
	Max at 7°C	kW	3.1	3.5	4.1	4.6	6.0		7.3	
	Total Input	Rated	kW	0.500	0.600	0.780	1.030		1.390	1.470
	Input	Rated	kW	0.017	0.019	0.026	0.026		0.032	0.032
	Operating Current (Max)	A	5.5	7.0	7.6	7.6	9.9		13.8	
	Dimensions	H*W*D	mm	250-760-199	250-760-199	299-798-245	299-798-245		299-798-245	299-798-245
	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
	Air Volume (SLo-Lo-Mid-Hi-SH ⁽³⁾)	Cooling	m³/min	28-37-44-52-61	28-37-44-52-66	36-50-63-78-105	36-50-63-78-111		45-57-70-84-105	52-64-75-91-117
Indoor Unit		Heating	m³/min	28-39-45-54-61	28-39-45-54-71	40-50-66-80-118	40-50-66-80-118		44-54-70-86-129	48-57-73-91-129
	Sound Level (SPL)	Cooling	dB(A)	19 ⁽⁶⁾ -26-30-35-40	19 ⁽⁶⁾ -26-30-35-42	18-24-30-36-42	18-24-30-36-42		21-29-34-38-42	26-33-36-40-44
		Heating	dB(A)	19 ⁽⁶⁾ -26-30-35-40	19 ⁽⁶⁾ -26-30-35-42	18-24-34-39-45	18-24-31-38-45		21-29-35-40-45	28-33-38-43-48
	Sound Level (PWL)	Cooling	dB(A)	54	57	57	57		57	58
	Dimensions	H*W*D	mm		550-800-285	550-800-285	550-800-285		550-800-285	714-800-285
	Weight	kg		27.5	27	28.5	34		40.5	
	Air Volume	Cooling	m³/min		32.2	32.2	32		40.5	
		Heating	m³/min		29.8	29.8	28.1		37.4	
	Sound Level (SPL)	Cooling	dB(A)		47	47	49		50	52
		Heating	dB(A)		48	48	50		51	52
Outdoor Unit	Sound Level (PWL)	Cooling	dB(A)		59	59	61		61	64
	Operating Current (Max)	A		6.8	7.3	7.3	9.6		13.5	
	Breaker Size	A		10	10	10	10		16	
	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52		6.35 / 9.52	6.35 / 9.52
	Chargeless piping length	Out-In	m		7.5	7.5	7.5		7.5	
	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	-10 ~ +46
		Heating	°C		-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 CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

The GWP of R32 is 675 in the IPCC 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 ⁽¹⁾ / Multi: R32 ⁽¹⁾	
Power Supply			Outdoor Power supply	
Source			230 / Single / 50	
Outdoor (V / Phase / Hz)				
Cooling	Design load	kW	6.1	7.1
	Annual electricity consumption ⁽²⁾	kWh/a	288	345
	SEER ⁽⁴⁾		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) ⁽³⁾	Total Input	kW	1.590	2.010
	Design load	kW	4.6 (-10°C)	6.7 (-10°C)
	Declared Capacity	kW	4.6 (-10°C)	6.7 (-10°C)
	at reference design temperature	kW	4.6 (-10°C)	6.7 (-10°C)
	at bivalent temperature	kW	3.7 (-15°C)	5.4 (-15°C)
	at operation limit temperature	kW	0.0 (-10°C)	0.0 (-10°C)
Back up heating capacity	Annual electricity consumption ⁽²⁾	kWh/a	1398	2126
	SCOP ⁽⁴⁾		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
Operating Current (Max)	Input	A	14.1	16.4
	Rated	kW	0.049	0.045
	Operating Current (Max)	A	0.5	0.4
	Dimensions	H*W*D	325-1100-257	325-1100-257
	Weight	kg	16.0	17.0
	Air Volume	m³/min	9.4 - 11.0 - 13.2 - 16.0 - 18.9	9.6 - 11.5 - 13.2 - 15.3 - 18.6
Indoor Unit	(SLo-Lo-Mid-Hi-SH) ⁽³⁾			
	Cooling	m³/min	10.8 - 13.4 - 15.4 - 17.4 - 20.3	10.2 - 11.5 - 13.2 - 15.3 - 19.2
	Heating	m³/min	29 - 37 - 41 - 45 - 48	30 - 37 - 41 - 45 - 49
	Sound Level (SPL)	dB(A)	30 - 37 - 41 - 45 - 48	30 - 37 - 41 - 45 - 51
	(SLo-Lo-Mid-Hi-SH) ⁽³⁾			
	Cooling	dB(A)	65	65
Outdoor Unit	Sound Level (PWL)	dB(A)	714-800-285	880-840-330
	Dimensions	H*W*D	mm	mm
	Weight	kg	40	53
	Air Volume	m³/min	52.1	63.7
	Cooling	m³/min	52.1	57.7
	Heating	m³/min	56	56
Ext. Piping	Sound Level (SPL)	dB(A)	57	55
	Heating	dB(A)	69	69
	Sound Level (PWL)	dB(A)	13.6	16.0
	Cooling	dB(A)	16	20
	Operating Current (Max)	A	6.35 / 12.7	6.35 / 12.7
	Breaker Size	A	30	30
Guaranteed Operating Range (Outdoor)	Diameter	Liquid/Gas	15	15
	Max.Length	Out-In	m	m
	Max.Height	Out-In	°C	°C
Range (Outdoor)	Cooling	°C	-10 ~ +46	-10 ~ +46
	Heating	°C	-15 ~ +24	-15 ~ +24

(⁽¹⁾) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO₂ over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

The GWP of R32 is 675 in the IPCC 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.