

AYseries

Indoor UnitOutdoor UnitRemote Controller



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



MUZ-AY25VG
MUZ-AY25VGH



MUZ-AY35VG
MUZ-AY35VGH



MUZ-AY42VG
MUZ-AY42VGH



MUZ-AY50VG
MUZ-AY50VGH



Functions and Features

Circulator Mode
-5C Only

Econo Cool Mode
-5C,-8C Only

Plasma Quad Flux
VGKP Only

Air Purifying
VG, VGK Only

V Blocking Filter
VG, VGK Only

Self Clean Mode
i save Mode

Dual Barrier Coating

Double Vane

SHVC
Horizontal Vane

SHVC
Vertical Vane

AUTO
Auto Fan Speed Mode

Night Mode

Back Light Remote
Remote Controller with Backlight

Weekly Timer
Built-in Weekly Timer

On/Off Operation Timer
VGK: built-in VGKP: optional

i save
"i save" Mode

ACO
Auto Changeover

Auto Restart

Low Temp Cooling
Low Temperature Cooling

Wired Remote Controller
Optional

Group Control
System Group Control
Optional

M-NET
M-NET Connection
Optional

Wi-Fi
Wi-Fi Interface

MXZ
MXZ Connection

10°C Heating

Operation Lock
Indoor

Cleaning-free Pipe Reuse

Flare Connection

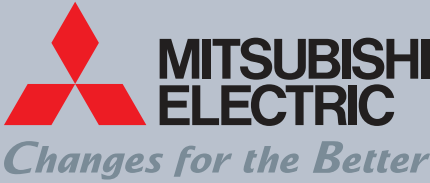
Self-diagnostic Function

Failure Recall

Specifications

Indoor Unit			MSZ-AY25VGK(P)	MSZ-AY25VGK(P)	MSZ-AY35VGK(P)	MSZ-AY35VGK(P)	MSZ-AY42VGK(P)	MSZ-AY50VGK(P)	MSZ-AY50VGK(P)
Outdoor Unit			MUZ-AY25VG	MUZ-AY25VGH	MUZ-AY35VG	MUZ-AY35VGH	MUZ-AY42VG	MUZ-AY42VGH	MUZ-AY50VG
Refrigerant			Single:R32(*1) / Multi: R410A or R32(*1)						
Power Supply	Source		Outdoor Power supply	Outdoor Power supply	Outdoor Power supply	Outdoor Power supply	Outdoor Power supply	Outdoor Power supply	Outdoor Power supply
Cooling	Outdoor(V/Phase/Hz)		230/Single/50	230/Single/50	230/Single/50	230/Single/50	230/Single/50	230/Single/50	230/Single/50
	Design load	kW	2.5	3.5	4.2	4.2	5.0	5.0	5.0
	Annual electricity consumption ^{(*)2}	kWh/a	100	100	141	141	186	186	232
	SEER ^{(*)3}	Energy efficiency class	8.7	8.7	8.7	8.7	7.9	7.9	7.5
			A+++	A+++	A+++	A+++	A++	A++	A++
	Capacity								
		Rated	kW	2.5	3.5	3.5	4.2	4.2	5.0
Heating (Average Season)		Min-Max	kW	0.9-3.4	0.9-3.4	1.1-3.8	1.1-3.8	0.9-4.5	1.4-5.4
	Total Input	Rated	kW	0.600	0.600	0.990	0.990	1.300	1.540
	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	1.9(-20°C)	1.9(-20°C)	2.0(-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)
	Annual electricity consumption ^{(*)2}	kWh/a	697	709	863	880	1131	1146	1248
	SCOP ^{(*)3}	Energy efficiency class	4.8	4.7	4.7	4.6	4.7	4.6	4.7
			A++	A++	A++	A++	A++	A++	A++
Indoor Unit	Capacity								
		Rated	kW	3.2	3.2	4.0	4.0	5.2	5.5
		Min	kW	1.0	1.0	1.3	1.3	1.3	1.4
		Max at 7°C	kW	4.1	4.1	4.6	4.6	6.0	7.3
	Total Input	Rated	kW	0.780	0.780	1.030	1.030	1.390	1.470
	Operating Current(Max)		A	7.6	7.6	7.6	7.6	9.9	13.8
	Input	Rated	kW	0.026	0.026	0.026	0.026	0.032	0.032
	Operating Current(Max)		A	0.3	0.3	0.3	0.3	0.3	0.3
	Dimensions	H*W*D	mm	299*798*245	299*798*245	299*798*245	299*798*245	299*798*245	299*798*245
	Weight		kg	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
Outdoor Unit	Air Volume (SLo-Lo-Mid-Hi-Shi ^{(*)4})	Cooling	m³/min	3.6-5.0-6.3-7.8-10.5	3.6-5.0-6.3-7.8-10.5	3.6-5.0-6.3-7.8-11.1	3.6-5.0-6.3-7.8-11.1	4.5-5.7-7.0-8.4-10.5	5.2-6.4-7.5-9.1-11.7
		Heating	m³/min	4.0-5.0-6.6-8.0-11.8	4.0-5.0-6.6-8.0-11.8	4.0-5.0-6.6-8.0-11.8	4.0-5.0-6.6-8.0-11.8	4.4-5.4-7.0-8.6-12.9	4.8-5.7-7.3-9.1-12.9
	Sound Level (SPL) (SLo-Lo-Mid-Hi-Shi ^{(*)4})	Cooling	dB(A)	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	28-33-36-40-44
		Heating	dB(A)	18-24-34-39-45	18-24-34-39-45	18-24-31-38-45	18-24-31-38-45	21-29-35-40-45	28-33-38-43-48
	Sound Level (PWL)	Cooling	dB(A)	57	57	57	57	57	58
	Operating Current(Max)		A	7.3	7.3	7.3	7.3	9.6	13.5
Ext.Piping	Breaker Size		A	10	10	10	10	10	16
	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52
	Chargeless piping length	Out-In	m	7.5	7.5	7.5	7.5	7.5	7.5
	Max.Length	Out-In	m	20	20	20	20	20	20
	Max.Height	Out-In	m	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
	Heating	°C	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24
Refrigerant	Refrigerant	Type		R32	R32	R32	R32	R32	R32
		GWP		675	675	675	675	675	675
	Pre-charged quantity	Weight	kg	0.55	0.55	0.55	0.55	0.70	1.00
		CO ₂ equivalent	t	0.37	0.37	0.37	0.37	0.47	0.68
	Max added quantity	Quantity							
		Weight	kg	0.26	0.26	0.26	0.26	0.26	0.26
		CO ₂ equivalent	t	0.18	0.18	0.18	0.18	0.18	0.18

(*1)Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. (*2)Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located. (*3)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". (*4)Shi: Super High.



SPLIT-TYPE AIR CONDITIONERS



SOPHISTICATED and MATT DESIGN

Cleanliness

Plasma Quad Plus (VGKP model) / V Blocking Filter (VGK model)
Provides clean air by removing various kinds of airborne particles.



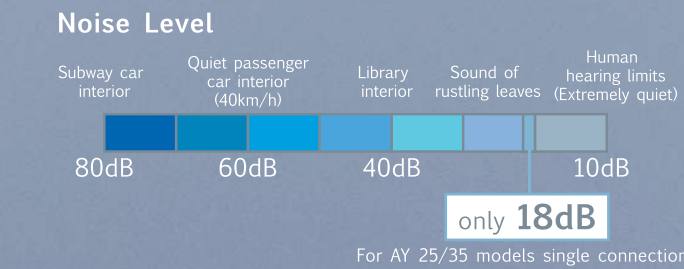
Design

Matt & Sophisticated
The matt design blends in with any room. Gentle and sophisticated texture creates a soft and elegant space.



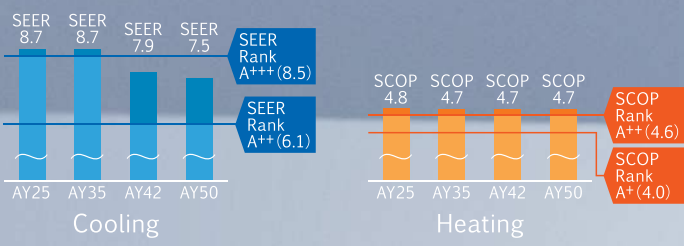
Quietness

18dB / Night mode
The sound of the air conditioner may be too quiet to notice.

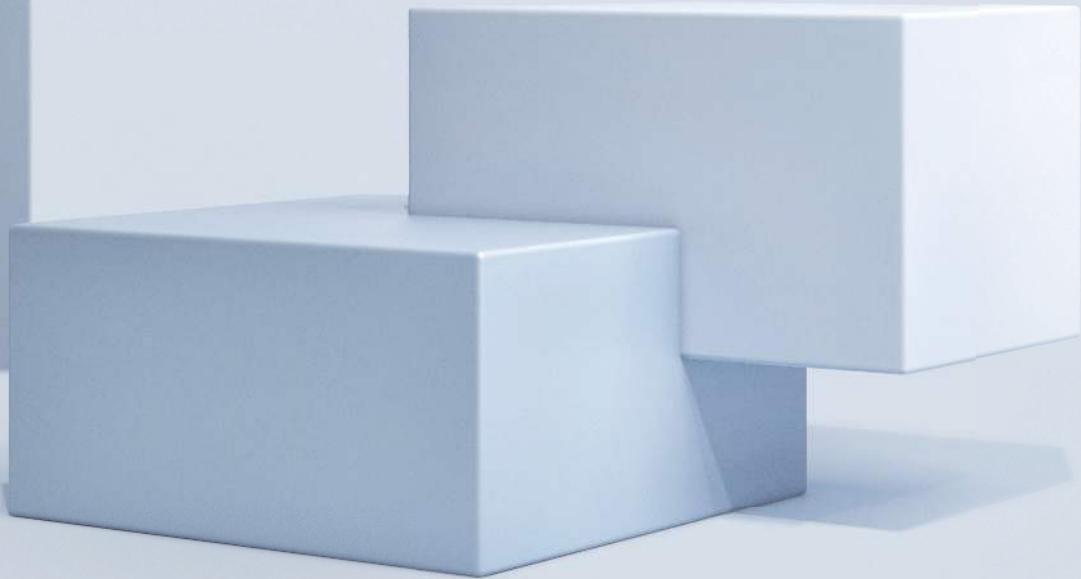


Energy saving

High energy efficiency
The high-efficiency air conditioner is eco-friendly and economical.



AY series



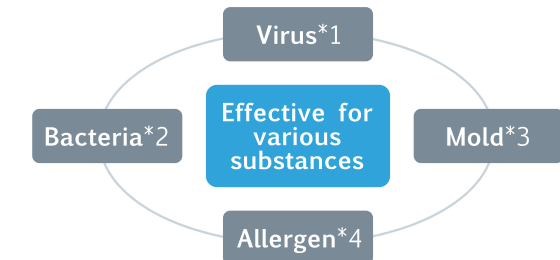
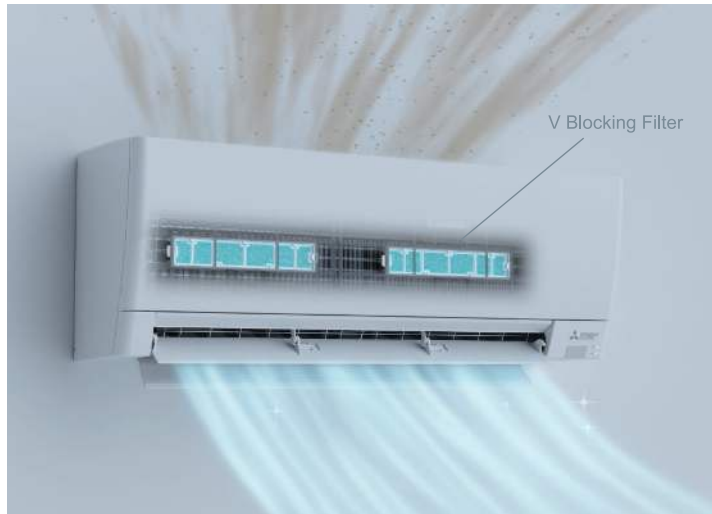
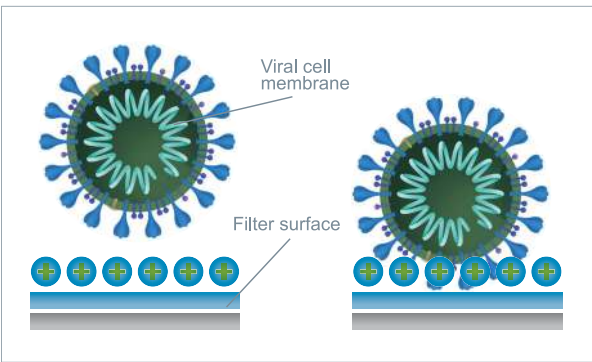
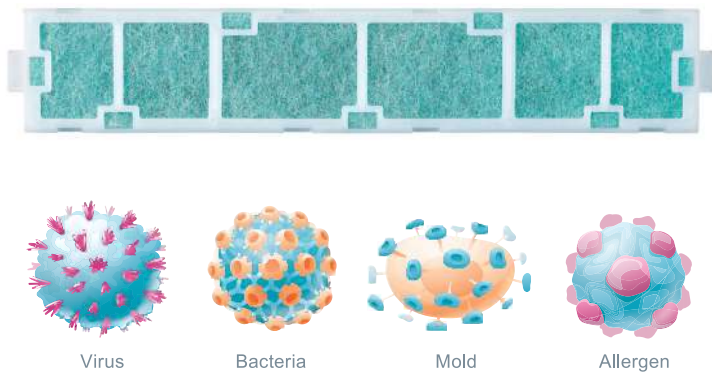
EXCELLENT CLEANLINESS PERFORMANCE

Mitsubishi Electric’s air purification technology provides you with clean and safe air quality.



V Blocking Filter

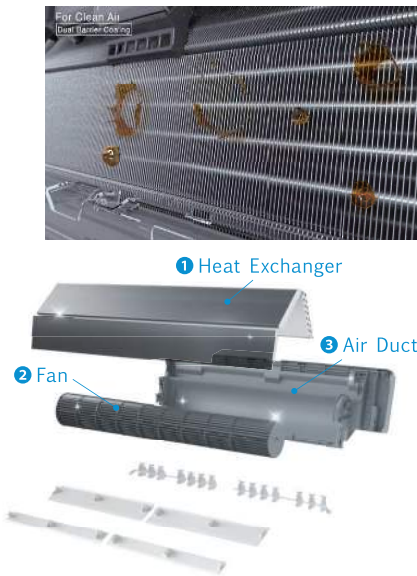
V Blocking Filter with antiviral effect inhibits 99% of adhered virus, and other harmful substances, such as bacteria, mold and allergen. Two-layered filter with non-woven fabric and electrostatic filter can effectively capture and remove small particles from the air in your room.



*1 Virus Test method:JIS L 1922,Tested Organization:Guangdong Detection Center of Microbiology,Test Report No:2020FM30156R02D, Test result:99.9% neutralized in 24 hours in a Testing Container
 *2 Bacteria Test method:JIS L 1902,Tested Organization:Boken Quality Evaluation Institute,Test Report No:29020006998-1, Test result:99.9% neutralized in 18 hours in a Petri dish
 *3 Mold Test method:JIS Z 2911, Tested Organization:Boken Quality Evaluation Institute, Test Report No:29020006906-1, Test result:No mold growth was confirmed
 *4 Allergen Test method:ELISA,Tested Organization:Daiwa Chemical Industries Co.,Ltd,Test Report No:2021B267,Test result:96.3% neutralized in 24 hours



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 mode

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.



QUIET PERFORMANCE

Provides a quiet and comfortable space.



Quietness 18dB



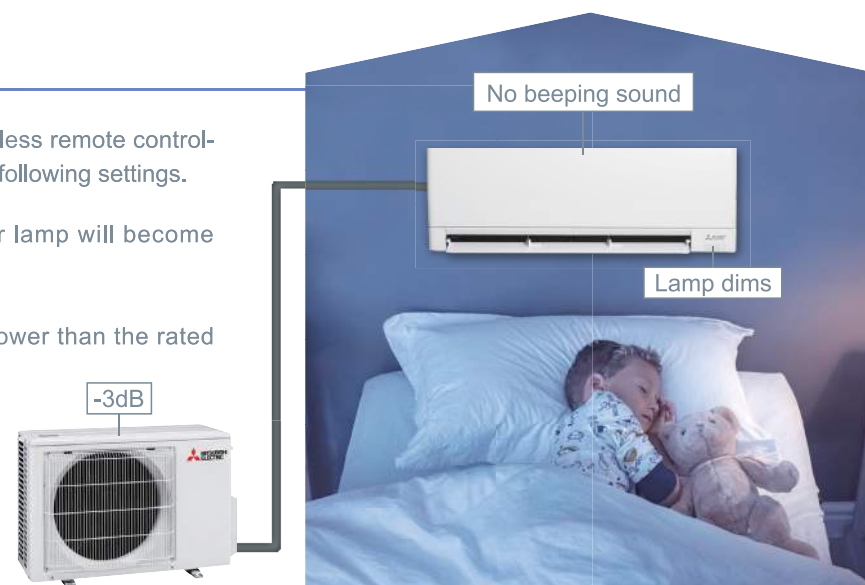
Quiet, relaxing space is within reach. Operational noise is 18dB (25/35 classes), which is so quiet that you might even forget the air conditioner is on.

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.

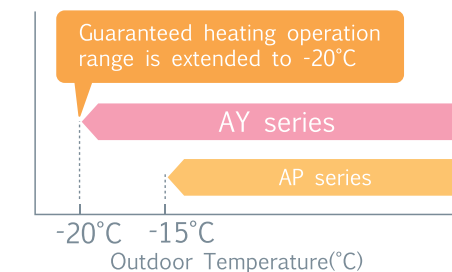
*The cooling/heating capacity may drop.



Wider Heating Operation Range

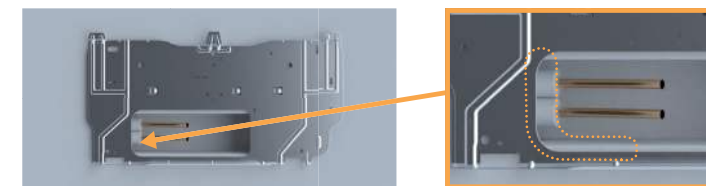
Mitsubishi Electric technology ensures that the unit will operate even when the outside temperature is down to -20°C.

Wider Heating Operation Range



Back Plate with a Hole

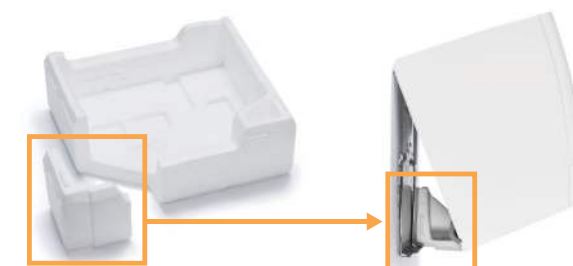
With a hole as default in the center of the back plate, the piping can be easily taken out from the back. The edge of the hole is reinforced to ensure the strength.



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



Remote Controller features

The remote controller screen is equipped with LED backlight. 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.

