RW Series R32

Indoor Unit

MSZ-RW25/35/50VG

Outdoor Unit

MUZ-RW25/35VGHZ MUZ-RW50VGHZ

Remote Controller

Functions and Features

- 3D i-see Sensor
- Circulator Mode (-SC Only)
- Econo Cool Mode (-E Only)
- Plasma Quad Plus
- Dual Barrier Coating
- Dual Barrier Material
- Double Vane
- Horizontal Vane
- Vertical Vane
- Auto Fan Speed Mode
- Drive Mode Selector
- Night Mode
- Remote Controller with Backlight
- Built-in Weekly Timer
- On/Off Operation Timer
- "i save" Mode
- Auto Changeover
- Auto Restart
- Low Temperature Cooling
- Wired Remote Controller (Optional)
- System Group Control (Optional)
- M-NET Connection (Optional)
- Wi-Fi Interface
- MXZ Connection
- 10°C Heating
- Operation Lock (Indoor)
- Cleaning-free Pipe Reuse
- Flare Connection
- Self-diagnostic Function
- Failure Recall

Specifications

Indoor Unit				MSZ-RW25VG	MSZ-RW35VG	MSZ-RW50VG
Outdoor Unit				MUZ-RW25VGHZ	MUZ-RW35VGHZ	MUZ-RW50VGHZ
Refrigerant				R32(*1)	R32(*1)	R32(*1)
Power Supply	Source			Outdoor Power supply	Outdoor Power supply	Outdoor Power supply
	Outdoor(V/Phase/Hz)			230/Single/50	230/Single/50	230/Single/50
Cooling	Design load		kW	2.5	3.5	5.0
	Annual electricity consumption (*2)		kWh/a	78	130	230
	SEER(*3)			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)	Design load		kW	3.2	4.0	6.0
	Declared Capacity	at reference design temperature	kW	3.2	4.0	6.0
		at bivalent temperature	kW	3.2	4.0	6.0
		at operation limit temperature	kW	2.6	2.6	4.0
	Annual electricity consumption (*2)		kWh/a	856	1097	1800
	SCOP(*3)			5.2	5.1	4.6
		Energy efficiency class		A+++	A+++	A++
	Capacity	Rated	kW	3.2	4.0	6.0
		Min	kW	0.8	1.1	1.8
		Max at 7°C	kW	6.3	7.0	8.7
		Max at -15°C	kW	4.8	5.3	7.0
		Max at -25°C	kW	3.2	4.0	6.0
	Total Input	Rated	kW	0.58	0.81	1.45
Operating Current(Max)			A	9.8	11.2	15.2
Indoor Unit	Input	Rated	kW	0.021	0.022	0.041
	Operating Current(Max)		A	0.21	0.22	0.37
	Dimensions	H*W*D	mm	305*998*247	305*998*247	305*998*247
	Weight		kg	14.5	14.5	14.5
	Air Volume (SLo-Lo-Mid-Hi-SHi(*4))	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(*4))	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)	Cooling	dB(A)	58	59	59
Outdoor Unit	Dimensions	H*W*D	mm	714*800*285	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	6.35 / 9.52
	Chargeless Piping Lengh	Out-In	m	10	10	15
	Max.Length	Out-In	m	20	20	30
	Max.Height	Out-In	m	12	12	15
Guaranteed Operating Range(Outdoor)		Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46
		Heating	°C	-30 ~ +24	-30 ~ +24	-30 ~ +24
Refregerant	Refregerant	Type		R32	R32	R32
		GWP		675	675	675
	Pre-charged Quantity	Weight	kg	1.20	1.10	1.21
		CO2 equivalent	t	0.81	0.74	0.82
	Max added Quantity	Weight	kg	1.40	1.30	1.51
		CO2 equivalent	t	0.95	0.88	1.02

(*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_2, 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 COMMISION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season". (*4)SHi: Super High.

MITSUBISHI ELECTRIC

Changes for the Better

SPLIT-TYPE AIR CONDITIONERS

RW Series

Hyper Heating

Flagship Model

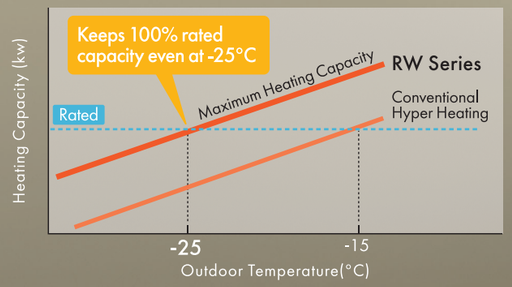
Comfort Performance

Heating Performance

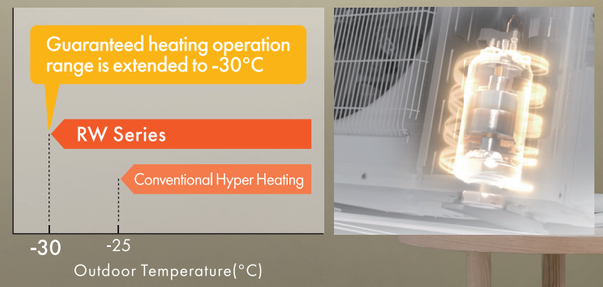
Excellent heating performance of RW series delivers the prime warmth into your room. RW series' powerful compressor realises remarkable maximum heating capacity in low ambient temperature with a high energy efficiency. Also, RW series performs 100% rated capacity even at -25°C, and the operation is guaranteed down to -30°C for all classes(25/35/50).

High Energy Efficiency

Improved Heating Capacity

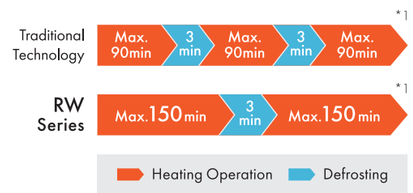


Wider Heating Operation Range



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.

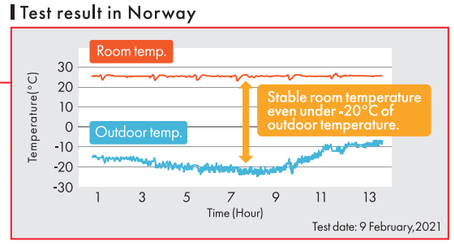


*1 The time for heating and defrosting operation depends on the environmental conditions.

Tested in Sweden and Norway

We have conducted field tests in several cold sites and receieved 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.

Circulator Mode

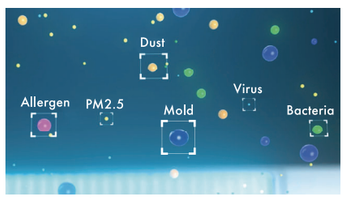
In heating mode, after reaching the setting temperature, indoor unit automatically starts FAN mode to circulate the air and eliminate temperature unevenness in your room.

Air Purifying Function

Cleanliness

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[*1]

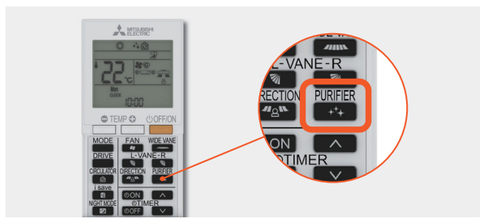
We have confirmed Plasma Quad Plus inhibits 99.8% of adhered COVID-19. [*2]

*1 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 25m³ test space.

*2 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%.

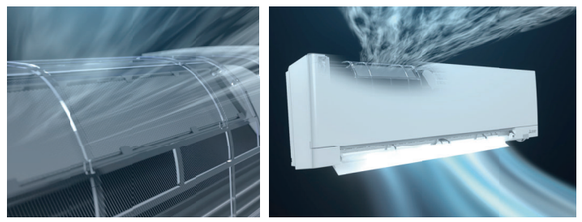
Quick Air Purifying Set

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.

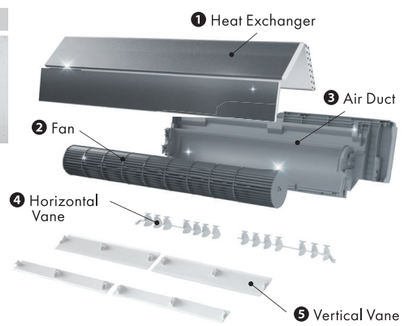


Dual Barrier Coating

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

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. Blended "fluorine particles" prevent hydrophilic dirt penetration, and "hydrophilic particles" prevent hydrophobic dirt from getting into the air conditioner.

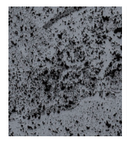
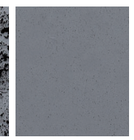
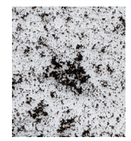
❶ Heat Exchanger		❷ Fan		❸ Air Duct	
					
No Dual Barrier Coating used (Image after 10 years)	Dual Barrier Coating used	No Dual Barrier Coating used (Image after 10 years)	Dual Barrier Coating used	No Dual Barrier Coating used (Image after 10 years)	Dual Barrier Coating used



Dual Barrier Material

SIAA Anti Fungus JP0512075X0001C (Horizontal Vane, Vertical Vane) [*2]

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.

❹ Horizontal Vane		❺ Vertical Vane	
			
No Dual Barrier Material	Dual Barrier Material	No Dual Barrier Material	Dual Barrier Material

*1 *2 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

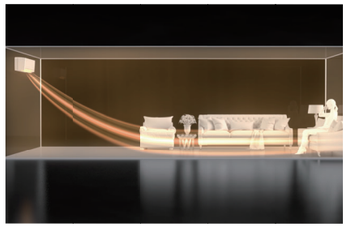
Operability

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.

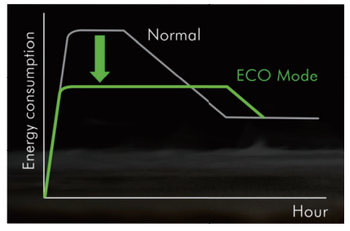
Wide Room Mode

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

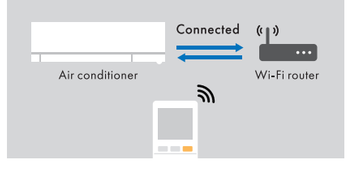
Lowers operation noise level, creating quieter and peaceful environment.

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.



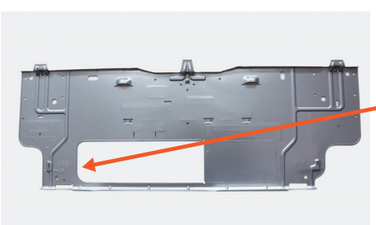
Remote Controller with Backlight

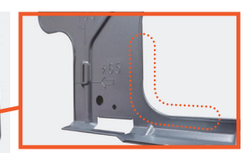
The remote controller screen is equipped with LED backlight. The luminous screen allows you to check the setting easily even in the dark.

Easy Installation

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.





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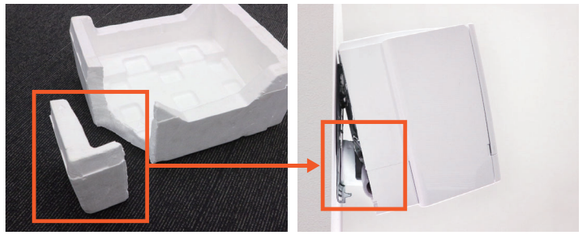

Spacer

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.