MITSUBISHI ELECTRIC

LIVING ENVIRONMENTAL SYSTEMS

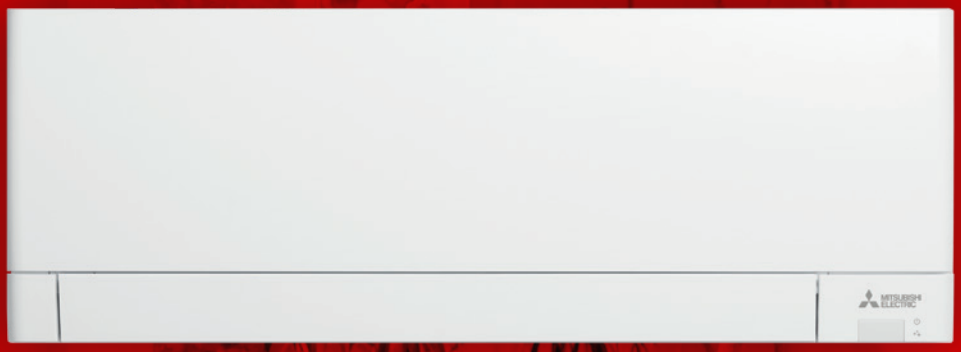
MSZ-AY

Wall mounted
air conditioners

PLUS
Line

We present the **MSZ-AY** wall mounted air conditioners from the **“Plus” line**, to be enjoyed and shared every day. Because the environments you love, where you live or work, deserve the best air. We at **Mitsubishi Electric** know this well.

PLUS
Line



MSZ-AY

wall unit

- New satin finish for an elegant and compact design
- Uses the new R32 low environmental impact refrigerant fluid
- Improved air quality thanks to the **Plasma Quad Plus** filter
- Backlit remote-control display
- Low sound level: only 18 dB(A)
- Compatible with MXZ-F multi-split systems
- Self Clean Mode prevents mould and bad smells
- Integrated Wi-Fi control
- Dual Barrier Coating technology
- Weekly timer


MITSUBISHI
ELECTRIC
LIVING ENVIRONMENTAL SYSTEMS


Mitsubishi Electric,
friends of the environment

ENERGY EFFICIENCY, AIR QUALITY, ELEGANCE AND QUIETNESS ARE PARAMOUNT IN THIS SERIES OF WALL-MOUNTED AIR CONDITIONERS WITH DC INVERTER TECHNOLOGY

The subtle, **refined design** and possibility of connecting with multi-split systems make this series suitable for any application, whether **home, office** or small commercial enterprise.
Thanks to careful design of all the components and application of cutting-edge technologies, these systems achieve excellent levels of energy efficiency and **operating economy** in all seasons.

RISPETTO PER L'AMBIENTE

Always attentive to the environment, by using R32 refrigerant gas, Mitsubishi Electric complies with European directives on the reduction of greenhouse effects, and without damage to the ozone layer.

Advantages:

- **Increased energy efficiency**
- **Reduction in use of refrigerant gas**
- **Reduced environmental impact**
- **Pure gas, meaning easily charged and recoverable**
- **Low toxicity and flammability**

MSZ-AY wall unit

Exceptionally silent and comfortable

Greater silence for greater comfort

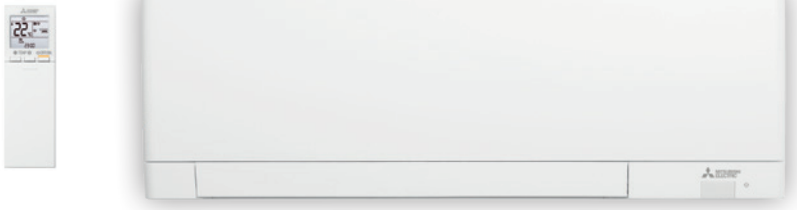
Our environmental comfort depends in part on sound levels, and this is especially important in bedrooms and studies. The MSZ-AY line **guarantees an ideal climate all year round,** with a sound level almost imperceptible to the human ear. The 18 dB(A) achieved by the MSZ-AY model is quieter than the sound of leaves rustling in the wind, making the air conditioner effectively inaudible to the room occupants.

This is why **MSZ-AY is particularly suitable for domestic environments** such as bedrooms and living areas, where we carry out our daily activities and spend most of our time.

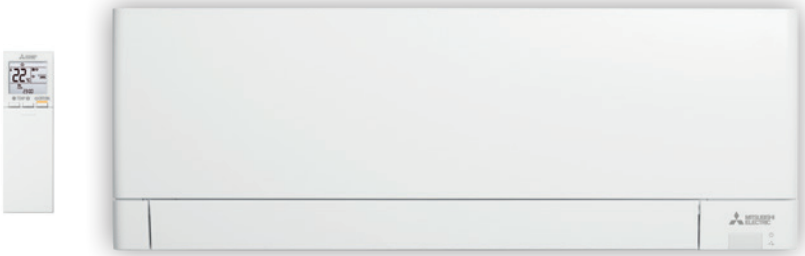
18 dB(A)

MSZ-AY wall unit

MSZ-AY 15-20

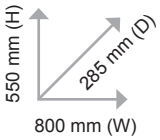


MSZ-AY 25-35-42-50



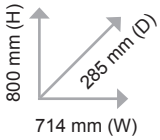
The ideal solution for every space

AIR CONDITIONER
SIZES 20-25-35-42
CAN BE COUPLED WITH
OUTDOOR UNIT
MUZ-AY20/25/35/42VG
SUITABLE FOR SMALL-MEDIUM
ENVIRONMENTS



And if the space is bigger…

AIR CONDITIONER
SIZE 50
CAN BE COUPLED
WITH OUTDOOR UNIT
MUZ-AY50VG
SUITABLE FOR MEDIUM-LARGE
ENVIRONMENTS



m^2 room	Kw of power
from 10 to 15	2,0
from 15 to 25	2,5
from 25 to 40	3,5
from 40 to 50	4,2

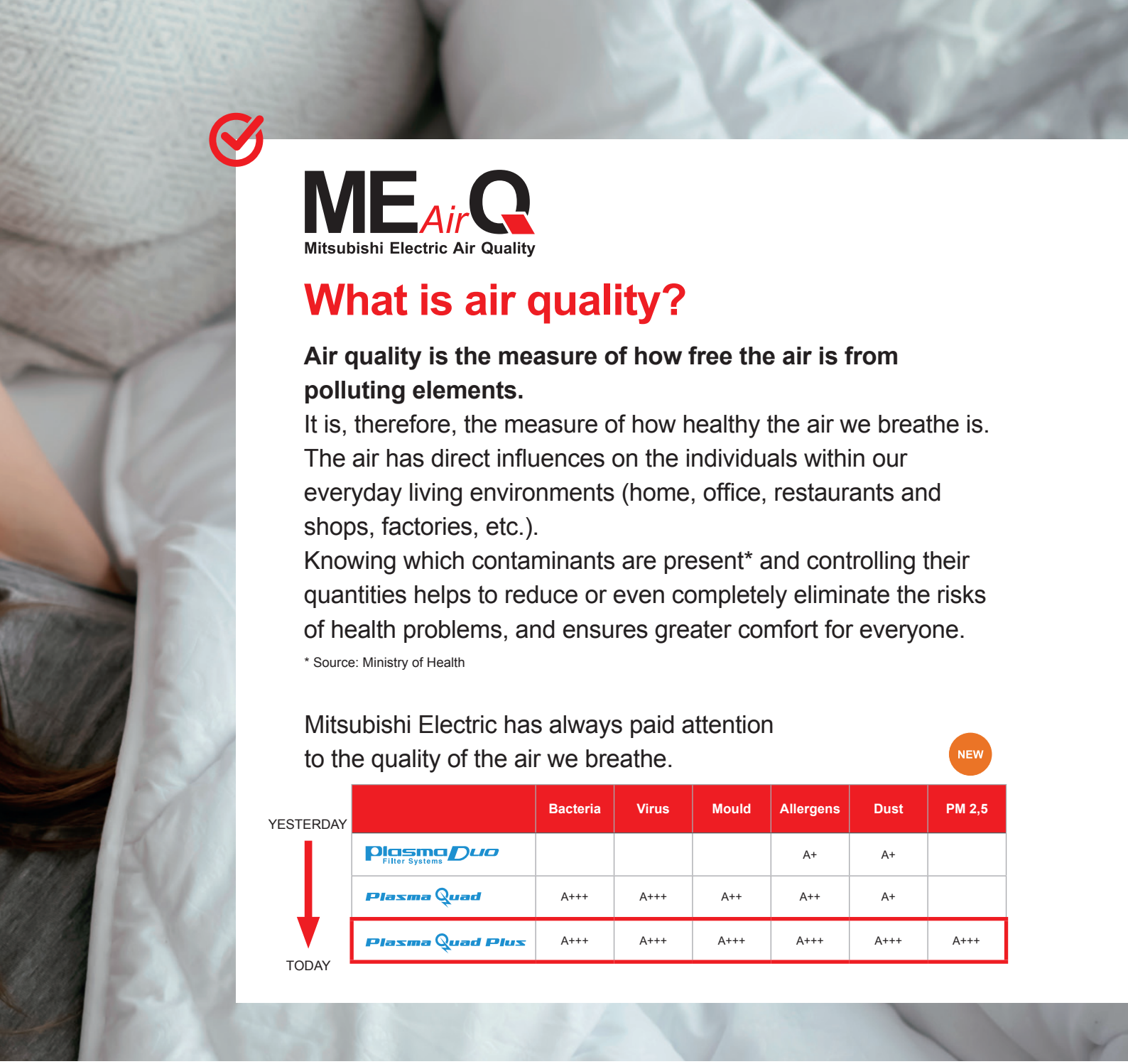
A size for every measure

More quality to your air

Plasma Quad Plus

PLASMA QUAD PLUS air purification system

Although we may not see them, atmospheric contaminants of various sizes are ever-present in our homes: **pollen, mould, viruses and bacteria, mites and dust.** Over time, the presence of these contaminants can cause health problems, especially for allergy sufferers.



ME Air Q
Mitsubishi Electric Air Quality

What is air quality?

Air quality is the measure of how free the air is from polluting elements.
It is, therefore, the measure of how healthy the air we breathe is. The air has direct influences on the individuals within our everyday living environments (home, office, restaurants and shops, factories, etc.).
Knowing which contaminants are present* and controlling their quantities helps to reduce or even completely eliminate the risks of health problems, and ensures greater comfort for everyone.

* Source: Ministry of Health

Mitsubishi Electric has always paid attention to the quality of the air we breathe.

NEW

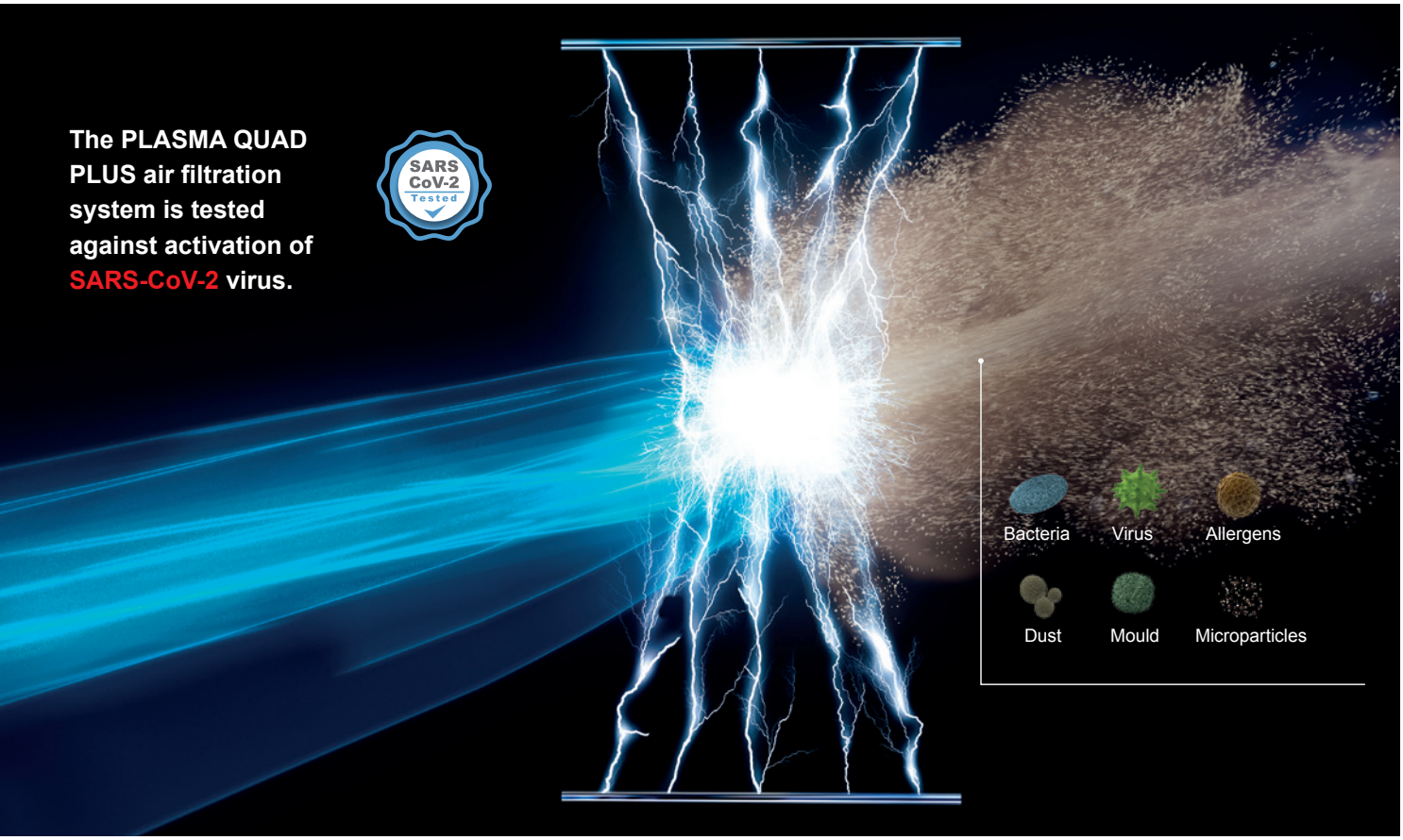
YESTERDAY

TODAY

	Bacteria	Virus	Mould	Allergens	Dust	PM 2,5
Plasma Duo Filter Systems				A+	A+	
Plasma Quad	A+++	A+++	A++	A++	A+	
Plasma Quad Plus	A+++	A+++	A+++	A+++	A+++	A+++

Mitsubishi Electric air conditioning systems with **Plasma Quad PLUS** filtration are designed to improve the quality of the air we breathe at home.
The Plasma Quad Plus technology exploits an electric field and a series of electric discharges onto the passing air, resulting in elimination of bacteria and viruses before the air is introduced to the room.

Plasma Quad Plus
improves air quality



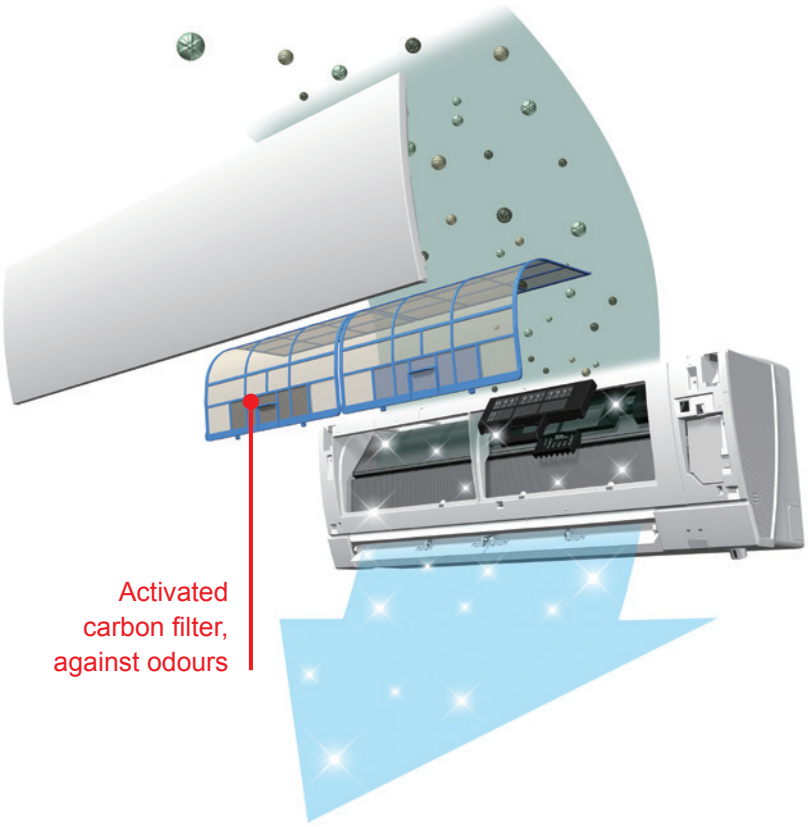
KILLS:

99%
OF VIRUSES, BACTERIA AND MOULDS PRESENT IN THE AIR

99,7%
OF MITES AND DUST

98%
OF ALLERGENS (E.G. POLLEN)

99%
OF AIRBORNE PM2.5



Air quality:

FUNCTION
SELF CLEAN

The new Self Clean function dries the indoor unit at the end of the cooling cycle, preventing development of mould and bad smells.

WITHOUT
SELF CLEAN MODE

When switched off, the air conditioner retains small drops of moisture inside, favouring development of mould and bad smells.

WITH
SELF CLEAN MODE

After switching off from cooling or dehumidification mode, the air conditioner activates a micro-ventilation system, completely drying every water particle and keeping the evaporator clean.

MSZ-AY wall unit

Reduced consumption, greater savings

Dual Barrier Coating

Dual Barrier Coating is a special double layer protective coating that **prevents deposition of dust and impurities** on the internal components of the air conditioner, even over long periods of time. This technology helps maintain the power needed for full-capacity operation. Preventing the formation of dirt on the internal components also means **avoiding development of bad smells,** and less frequent cleaning for the air conditioner.

PREVENTS

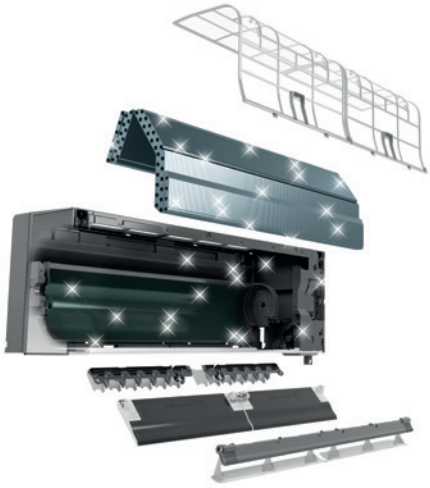
deposition of dust and impurities on the internal components even after long periods of time

PROMOTES

reduced consumption, and reduces the need for maintenance, for **greater general savings**

MORE ADVANTAGES

greater efficiency of the air conditioner over time, **reduction of energy waste**



PLUS
Line

MSZ-AY
wall unit

Technological features

MITSUBISHI'S ELECTRIC INNOVATION LEADS TO NEW FUNCTIONS AND TECHNOLOGIES, AT THE SERVICE OF COMFORT AND ENERGY EFFICIENCY.

The new MSZ-AY model sets new standards in the world of residential air conditioning.
With renewed aesthetics, quality materials in 'velvety' finish, and careful attention to comfort with its mere 18 dB(A) sound level, and the addition of the 'Plasma Quad Plus' active filtration device, MSZ- AY packages Mitsubishi Electric's best technology in ultra-compact dimensions.

Energy savings

High seasonal energy efficiency in **heating** and **cooling**.

Multisplit version

Also available in the **MULTISPLIT** version, **with the possibility of connection.**

Acoustic comfort

The MSZ-AY line of air conditioners guarantees **maximum acoustic comfort** inside the room.

Elegant and compact design

New satin finish for an elegant and compact design suited to any type of room.

Greater savings on bills

Greater energy efficiency yields savings in electrical bills.

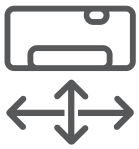
Air purification

The **Plasma Quad Plus** air purification system suppresses viruses, bacteria, moulds, allergens and pollen. Also effective against **SARS-CoV-2**.

Lasting quality

Dual Barrier Coating technology: prevents deposition of dust and impurities.

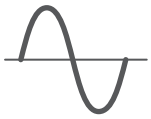
Air distribution



The **horizontal** and **vertical deflectors** direct airflow to all corners of the room.

.

DC Inverter technology



Inverter technology ensures **superior performance** and **optimized control** of the operating frequency.

Self diagnosis

A self-diagnosis system **facilitates resetting operations.**

Weekly timer

Set the **desired temperature** and ON/OFF operations in a weekly plan, **according to** occupant **habits.**

"I save" function

Select your **preferred setting,** such as night mode, using a **single button.**

Cooling at low temperatures

Cooling is ensured even at low outdoor temperatures, thanks to an intelligent control of the outside fan.

Backlit remote-control display

The remote-control display is backlit, for **easy viewing even at night.**

Night Mode

LED brightness reduction, deactivation of "beep" sounds, reduction of outdoor unit sound by 3 dB.

Auto restart

In the event of a power failure, the air conditioner **restarts automatically** when powered is restored.

MELCloud, just a tap or a word!

Compatible with Amazon Alexa and Google Home

MELCloud

Available on the App Store

ANDROID APP ON Google play

MELCloud, your air conditioner anywhere

Maximum compatibility with PC, Tablet and Smartphone

MELCloud is the Mitsubishi Electric remote control that allows you to manage your system wherever you are via PC, tablet or smartphone; all you need is an internet connection.

Main functions

MELCloud allows you to:

- Manage On/Off functions
- Select mode (Auto/Heat/Cool/Fan)
- Select fan speed
- Programme a weekly timer
- Generate reports
- Adjust the angle of vents
- Detect and set room temperature
- Receive weather information for the installation location

MELCloud, a secure system

MELCloud is a secure system

Once you've registered and configured the air conditioner, the App allows you to operate the system remotely. The unit is associated with your personal account, allowing you to control the air conditioner, monitor its consumption, and programme it to turn on at any time.

MELCloud BUILT IN

MELCloud, integrated

MELCloud a system integrated into the unit

The new MSZ-AY offers the user experience of MelCloud integrated into the air conditioner, allowing the user to remotely manage the main functions and monitor operation and energy consumption, all using the Wi-Fi controller.

WWW.MELCLOUD.COM

Scan the QR Code and download the Amazon Alexa Skills

Technical Information

MSZ-AY 15-20-25-35-42-50

R32 | 18 dB(A)[2] | MELCloud BUILT IN | Plasma Quad Plus BUILT IN | SARS CoV-2 Tested | Dual Barrier Coating | A+++[1] | A++[1]

[1]Referred to sizes 25/35. [2]Referred to sizes 25/35 set at minimum speed.

Technical specifications DC INVERTER / HEAT PUMP

Indoor Unit				MSZ-AY15VGKP	MSZ-AY20VGKP	MSZ-AY25VGKP	MSZ-AY35VGKP	MSZ-AY42VGKP	MSZ-AY50VGKP
Outdoor Unit				MUZ-AY15VG	MUZ-AY20VG	MUZ-AY25VG	MUZ-AY35VG	MUZ-AY42VG	MUZ-AY50VG
Refrigerant				R32(*1)					
Power Supply	Source			Outdoor Power supply					
	Outdoor (V / Phase / Hz)			230/Single/50					
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^{+++} →D	A^{++}	A^{+++}	A^{+++}	A^{+++}	A^{++}	A^{++}
	Capacity	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
Heating (Average Season) (*5)	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)
	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
		Energy efficiency class	A^{+++} →D	A^{+}	A^{+}	A^{++}	A^{++}	A^{++}	A^{++}
	Capacity	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
Operating Current (Max)			A	5.5	7.0	7.6	7.6	9.9	13.8
Indoor Unit	Input	Rated	kW	0.017	0.019	0.026	0.026	0.032	0.032
	Operating Current (Max)		A	0.17	0.2	0.3	0.3	0.3	0.3
	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
	Air Volume (SLo-Lo-Mid-Hi-SHi(*3))	Cooling	m3/min	2.8 - 3.7 - 4.4 - 5.2 - 6.1	2.8 - 3.7 - 4.4 - 5.2 - 6.6	3.6- 5.0 - 6.3 - 7.8- 10.5	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	2.8 - 3.9 - 4.5 - 5.4 - 6.1	2.8 - 3.9 - 4.5 - 5.4 - 7.1	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(*3))	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	28 - 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
Outdoor Unit	Dimensions	H*W*D	mm	538-699-249	550-800-285	550-800-285	550-800-285	550-800-285	714-800-285
	Weight		kg	23	27.5	27	28.5	34	40.5
	Air Volume	Cooling	m3/min	26	32.2	32.2	32.2	32	40.5
		Heating	m3/min	21	29.8	29.8	29.8	28.1	37.4
	Sound Level (SPL)	Cooling	dB(A)	45	47	47	49	50	52
		Heating	dB(A)	45	48	48	50	51	52
	Sound Level (PWL)	Cooling	dB(A)	58	59	59	61	61	64
	Operating Current (Max)		A	5.3	6.8	7.3	7.3	9.6	13.5
	Breaker Size		A	10	10	10	10	10	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	6.35 / 9.52
	Chargeless piping lengh	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
		Heating	˚C	-15 ~ +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 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 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.
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 57-58 for heating (warmer season) specifications.
(*6) For single use: only 19dB(A), For multi use (MXZ): 21dB(A).

MITSUBISHI ELECTRIC
LIVING ENVIRONMENTAL SYSTEMS

Mitsubishi Electric Europe B.V. Italian Branch
Via Energy Park, 14
20871 Vimercate (MB)
Phone: +39 039 60531
Fax: +39 039 6057694
e-mail: clima@it.mee.com

The equipment described in this catalogue contain fluorinated HFC gasses with a GWP >1.
Installation of those equipment must be executed by professional installer based on EU reg. 303/2008 and 517/2014

LEAFLET MSZ-AY
E-2505280 (18978)

E-2505280

https://les.mitsubishielectric.it/en/