

MSZ-AP

DC Inverter wall-mounted
air conditioners
Heat pump
MONOSPLIT & MULTISPLIT





MSZ-AP

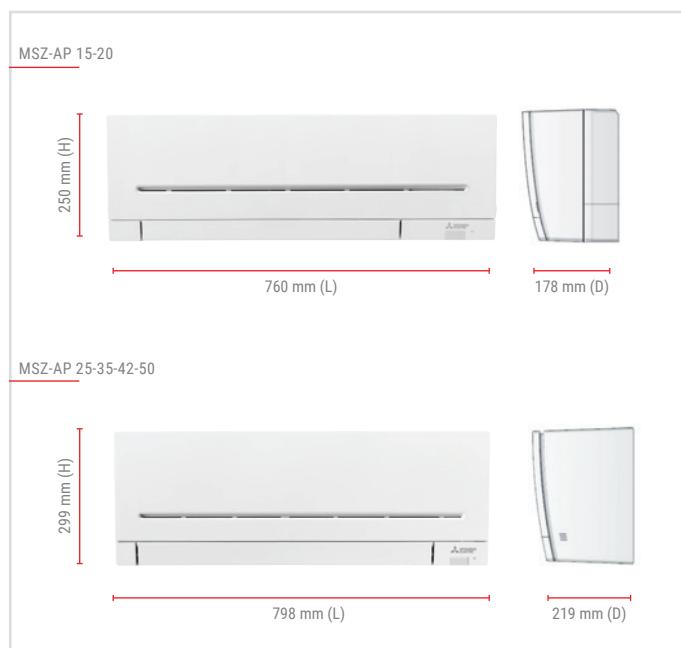


MSZ-AP



Compact design

MSZ-AP units feature an **ultra-compact design**, with just two different size versions for a total of six different capacities.



¹ For sizes 25/35.

² For sizes 25/35 set to lowest fan speed.



WALL-MOUNTED UNITS

DC Inverter/Heat pump

Built-in MELCloud technology

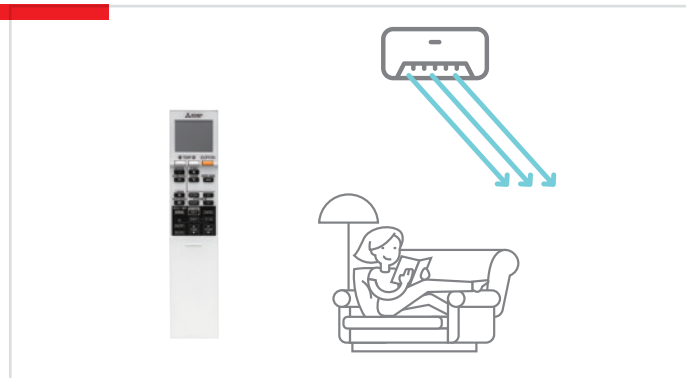
The new MSZ-AP includes a **specific pocket for installing the MELCloud interface** out of sight within the chassis of the unit itself (for sizes 25-50). Control your system easily wherever you are from a PC, tablet or smartphone.

Quiet

At the lowest fan speed, 25/35 indoor unit produce **noise levels of just 19dB**, ensuring extraordinary acoustic comfort.

Air distribution

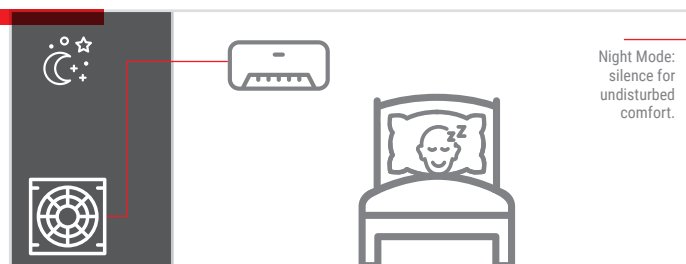
Motorised horizontal louver lets the user set the direction of the air flow exactly as required, for total comfort in all operating modes (25-50 sizes).



Night mode

Selecting **Night Mode** from the remote control sets the air conditioner for increased comfort at night:

- Reducing LED brightness
- Disabling beeps
- Reducing the noise levels of the outdoor unit by 3dB





Efficiency

Intelligent design solutions combined with the introduction of **R32 refrigerant** have significantly increased the efficiency of the new MSZ-AP series of indoor units, which now attain class **A+++ in cooling mode** (size 25 and 35) and **A++ in heating mode** across the entire line-up.

R32

R32 is a low environmental impact refrigerant. R32 refrigerant gas complies with European directives for the reduction of greenhouse effect gases, with a lower GWP than R410A, and does not damage the ozone layer.

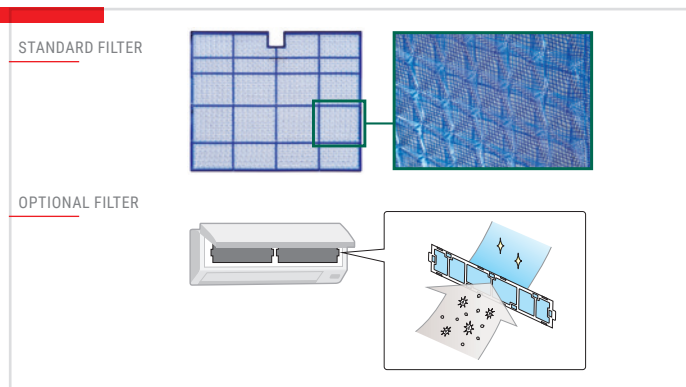
Advantages:

- Superior energy efficiency
- Smaller quantities of refrigerant gas used
- Lower environmental impact
- Easier to charge and recover, as pure gas is used
- Low toxicity and flammability

Advanced filtration

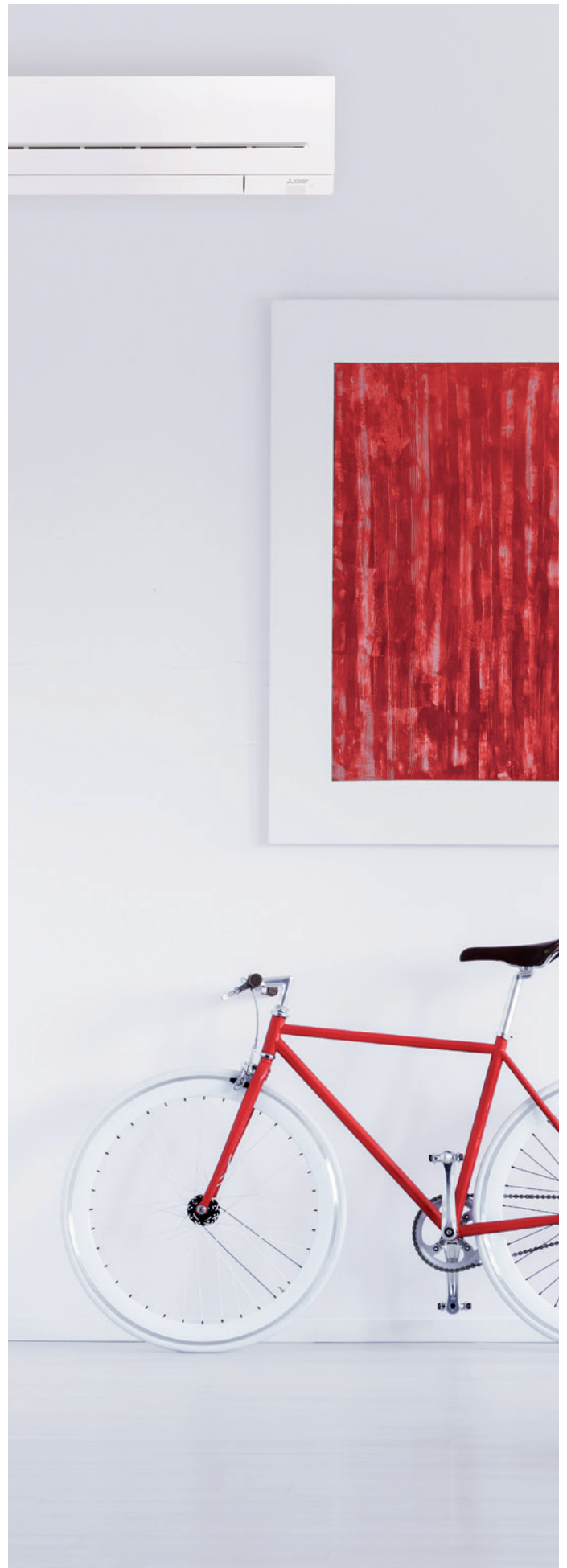
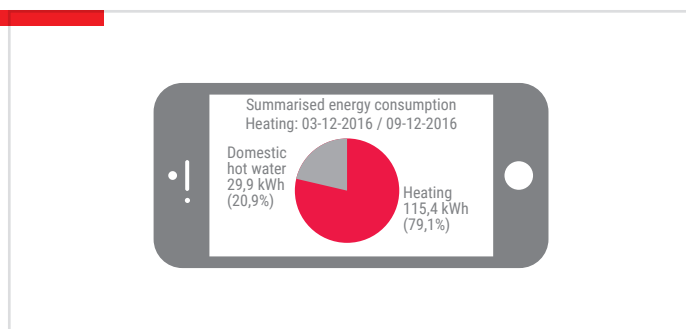
The air cleaner filter contained within the new MSZ-AP indoor units eliminates dust and unpleasant odours.

Sizes 25-50 may also be equipped with an optional silver ionize air purifier filter, which captures bacteria, pollen and other allergens.







Energy monitoring



















The new MSZ-AP supports **energy consumption monitoring** via MELCloud remote control system. This function is also available in Multisplit R32 configuration.





Indoor units		Outdoor units	
			
MSZ-AP15/20VF	MSZ-AP25/35/42/50VG	MUZ-AP25/35/42VG	MUZ-AP50VG

Key Technologies

								
								
* Optional, ¹ 25-50								

Technical specifications INVERTER / HEAT PUMP

MODEL				MSZ-AP15VF	MSZ-AP20VF	MSZ-AP25VG	MSZ-AP35VG	MSZ-AP42VG	MSZ-AP50VG	
			Indoor unit	MSZ-AP15VF	MSZ-AP20VF	MSZ-AP25VG	MSZ-AP35VG	MSZ-AP42VG	MSZ-AP50VG	
			Outdoor unit	ONLY MULTISPLIT	ONLY MULTISPLIT	MUZ-AP25VG	MUZ-AP35VG	MUZ-AP42VG	MUZ-AP50VG	
Power supply	Voltage/Freq./Phases		V/Hz/n°	230 / 50 / 1	230 / 50 / 1	230 / 50 / 1	230 / 50 / 1	230 / 50 / 1	230 / 50 / 1	
Cooling	Nominal Capacity (min/max)	T=+35°C	kW	1,5 (0,9 - 2,4)	2,0 (0,9 - 2,6)	2,5 (0,9 - 3,4)	3,5 (1,1 - 3,8)	4,2 (0,9 - 4,5)	5,0 (1,4 - 5,4)	
	Power input	T=+35°C	kW	-	-	0,600	0,990	1,300	1,550	
	EER			-	-	4,17	3,54	3,23	3,23	
	Design load (PdesignC)		kW	-	-	2,5	3,5	4,2	5,0	
	SEER			-	-	8,6	8,6	7,8	7,4	
Energy efficiency class				-	-	A+++	A+++	A++	A++	
Annual electricity consumption ¹			kWh/a	-	-	101	142	188	236	
Heating Average season	Nominal Capacity (min/max)	T=+7°C	kW	1,7 (0,9 - 3,1)	2,2 (0,9 - 3,1)	3,2 (1,0 - 4,1)	4,0 (1,3 - 4,6)	5,4 (1,3 - 6,0)	5,8 (1,4 - 7,3)	
	Power input	T=+7°C	kW	-	-	0,78	1,03	1,49	1,60	
	COP			-	-	4,10	3,88	3,62	3,63	
	Design load (PdesignH)	T=-10°C	kW	-	-	2,4	2,9	3,8	4,2	
	SCOP			-	-	4,8	4,7	4,7	4,7	
Energy efficiency class				-	-	A++	A++	A++	A++	
Annual electricity consumption ¹			kWh/a	-	-	698	862	1120	1250	
Heating Warmer season	SCOP			-	-	-	-	-	-	
	Energy efficiency class			-	-	A+++	A+++	A+++	A+++	
Indoor unit	Dimensions		H x W x D	mm	250 X 760 X 178	250 X 760 X 178	299 X 798 X 219	299 X 798 X 219	299 X 798 X 219	
	Weight			kg	8,2	8,2	10,5	10,5	10,5	
	Air volume	Cooling	m³/min		3,5-3,9-4,6-5,5-6,4	3,5-3,9-4,6-5,5-6,9	4,9-5,9-7,1-8,7-11,4	4,9-5,9-7,1-8,7-11,4	5,4-6,5-7,7-9,3-11,4	6,0-7,2-8,4-10,0-12,6
		Heating	m³/min		3,7-4,4-5,0-6,0-6,8	3,7-4,4-5,0-6,0-7,3	4,9-5,9-7,3-8,9-12,9	4,9-5,9-7,3-8,9-12,9	5,3-6,1-7,7-9,4-14,0	5,6-6,5-8,2-10,0-14,0
	Sound pressure (Slo-Lo-Mid-Hi-Shi)	Cooling	dB(A)		21-26-30-35-40	21-26-30-35-42	19-24-30-36-42	19-24-30-36-42	21-29-34-38-42	28-33-36-40-44
Heating		dB(A)		21-26-30-35-40	21-26-30-35-42	19-24-34-39-45	19-24-31-38-45	21-29-35-40-45	28-33-38-43-48	
Sound power	Nominal	dB(A)		59	60	57	57	57	58	
Outdoor unit	Dimensions		H x W x D	mm	-	550 X 800 X 285	550 X 800 X 285	550 X 800 X 285	714 X 800 X 285	
	Weight			kg	-	-	31	35	40	
	Sound pressure	min/max	dB(A)		-	-	47/48	49/50	50/51	
	Sound power	Nominal	dB(A)		-	-	59	61	61	
Operating current (max)			A		-	7,6	8,46	9,92	13,6	
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	
	Max. length		m	-	-	20	20	20	20	
	Max. height		m	-	-	12	12	12	12	
Guarenteed operating range (outdoor)	Cooling	°C		-	-	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	
	Heating	°C		-	-	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	
Refrigerant ²	Type / Precharge		kg	R32/-	R32/-	R32/0,55	R32/0,55	R32/0,70	R32/1,00	
	GWP / Tons CO ₂ Eq.			675/-	675/-	675/0,37	675/0,37	675/0,47	675/0,68	

¹ Energy consumption measured with standard tests. Effective consumption depends on operating mode and the location in which the unit is installed.

² If released into the atmosphere, refrigerant gas contributes to global warming. If accidentally released into the atmosphere, refrigerants with a lower global warming potential (GWP) will contribute less to global warming than refrigerants with a higher GWP. The products in this catalogue contain the following refrigerant fluids: HFC-R32 (GWP 675), HFC-R410A (GWP 2088), HFC-R134a (GWP 1430) and HFC-R407C (GWP 1774). Users must not attempt to repair or modify the refrigerant circuit or disassemble the product under any circumstances. Always contact a qualified professional for any work necessary.

Accessories	DESCRIPTION	DURATION	SERIES/OPT.
MAC-2370FTE / MAC-2320FTE	Silver ionized air purifier filter	12 month	Optional
MAC-1702RA-E	External inputs connector (sizes 25-50)	-	Optional
MAC-5671F-E	Wi-Fi interface	-	Optional



LIVING ENVIRONMENTAL SYSTEMS

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for a greener tomorrow

Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.



The equipment described in this catalogue contain fluorinated gasses such as HFC-410A (GWP 2088), HFC-134A (GWP 1430) e HFC-407C (GWP 1774). Installation of those equipment must be executed by professional installer based on EU reg. 303/2008 and 517/2014



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