

MSZ-AP

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





MSZ-AP

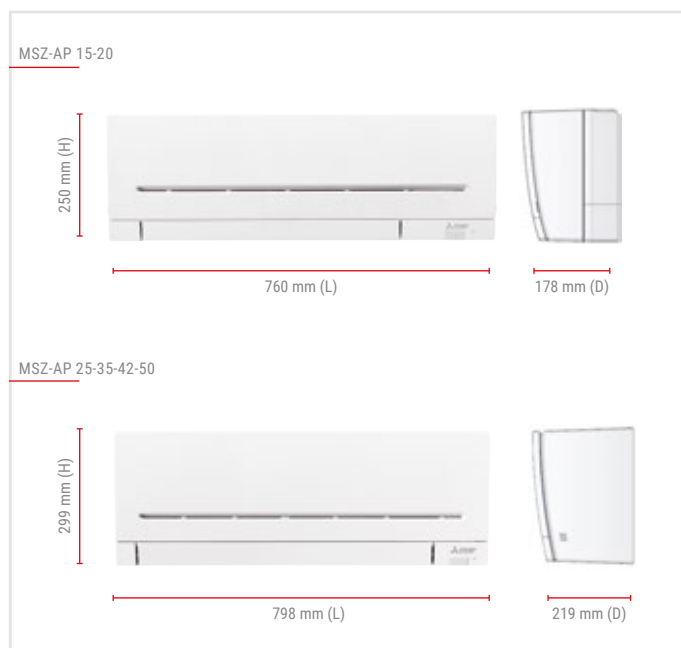


MSZ-AP



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

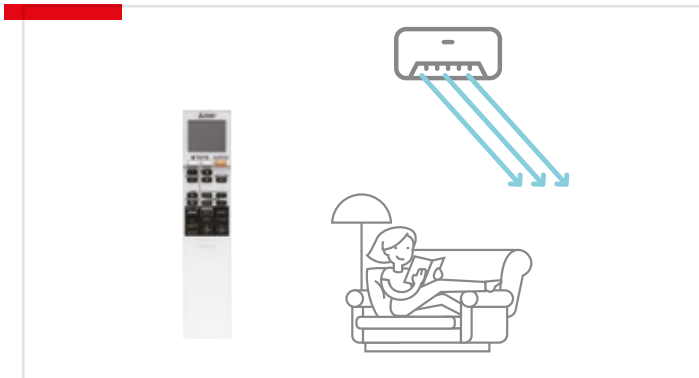
The new MSZ-AP includes a **specific pocket for installing the MELCloud interface** out of sight within the chassis of the unit itself (for sizes 25-50). Control your system easily wherever you are from a PC, tablet or smartphone.

Quiet

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

Air distribution

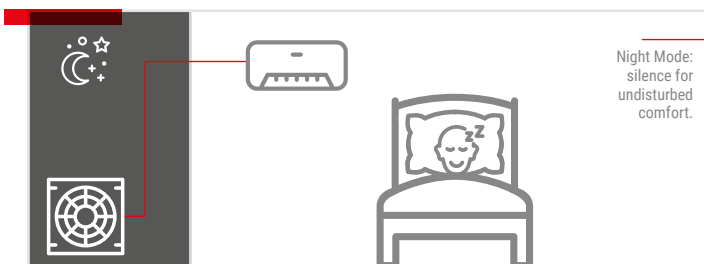
Motorised horizontal louver lets the user set the direction of the air flow exactly as required, for total comfort in all operating modes (25-50 sizes).



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.

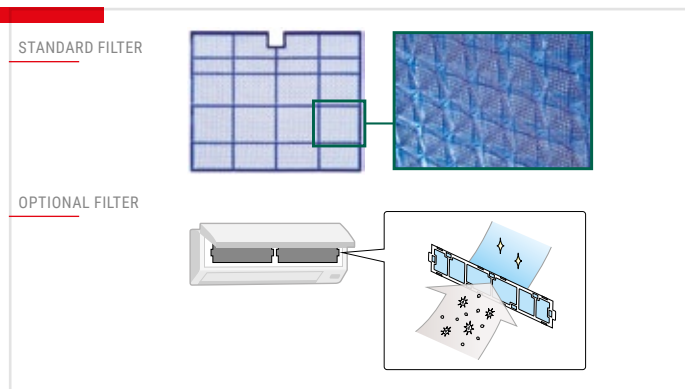
Advantages:

- 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

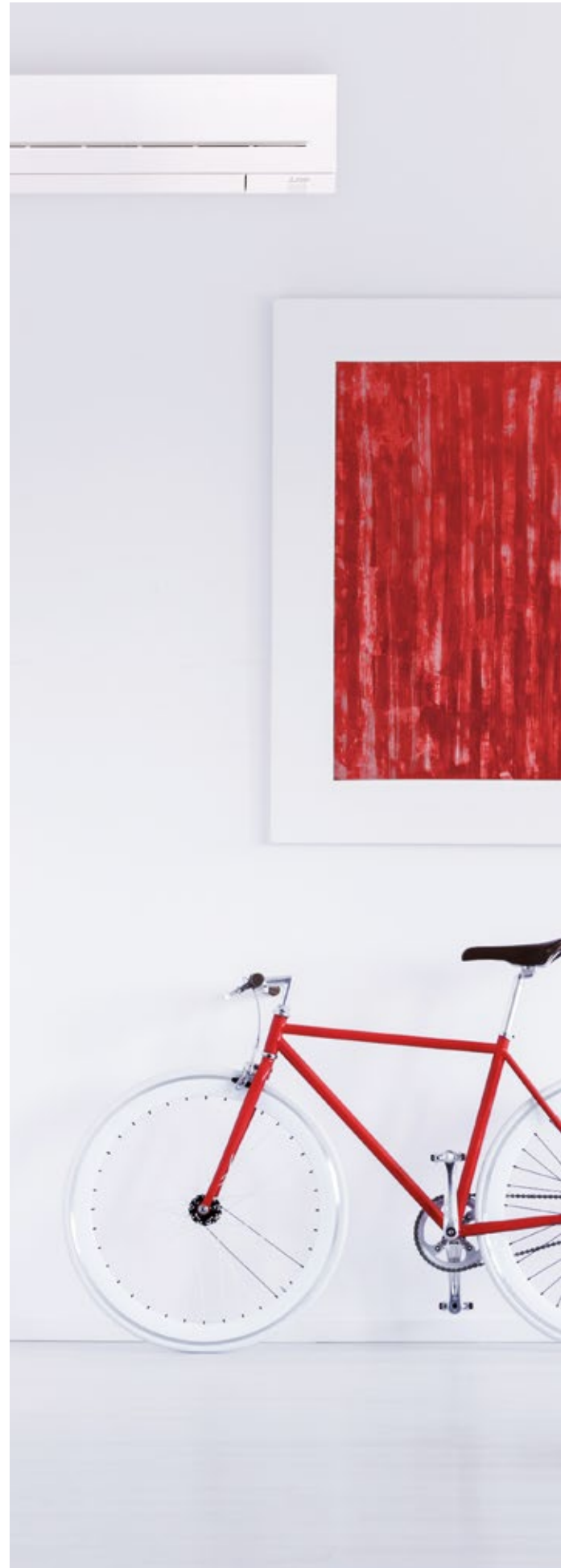
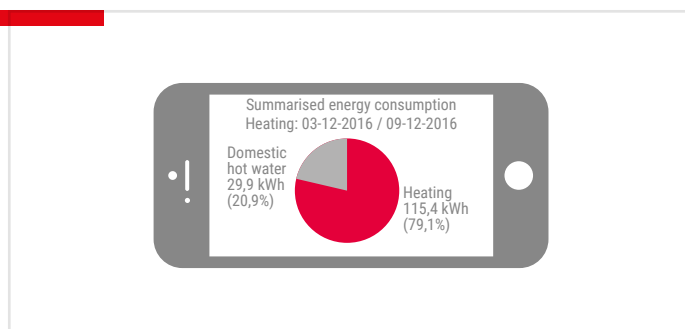
The air cleaner filter contained within the new MSZ-AP indoor units eliminates dust and unpleasant odours.

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 | Outdoor unit | ONLY MULTISPLIT | ONLY MULTISPLIT | ONLY MULTISPLIT | ONLY MULTISPLIT | |
| Power supply | Voltage/Freq./Phases | | | V/Hz/n° | 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 | 299 X 798 X 219 | |
| | Weight | | kg | 8,2 | 8,2 | 10,5 | 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 | 31 | 35 | 40 | |
| | Sound pressure | min/max | dB(A) | - | - | 47/48 | 49/50 | 50/51 | 52/52 | |
| | Sound power | Nominal | dB(A) | - | - | 59 | 61 | 61 | 64 | |
| Operating current (max) | A | | | - | - | 7,6 | 8,46 | 9,92 | 13,6 | |
| | Liquid/gas | | | mm | 6,35/9,52 | 6,35/9,52 | 6,35/9,52 | 6,35/9,52 | 6,35/9,52 | |
| Ext. piping | Diameter | | mm | - | - | 20 | 20 | 20 | 20 | |
| | Max. length | | m | - | - | 12 | 12 | 12 | 12 | |
| | Max. height | | m | - | - | - | - | - | - | |
| 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-2370FT-E / MAC-2320FT-E | 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

Centro Direzionale Colleoni
Viale Colleoni, 7 - Palazzo Sirio
20864 Agrate Brianza (MB)
tel. 039.60531 - fax 039.6053223
e-mail: clima@it.mee.com



les.mitsubishielectric.it/en/products/



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



Specifications are subject to change without notice
All rights reserved.

