

# MSZ-AY

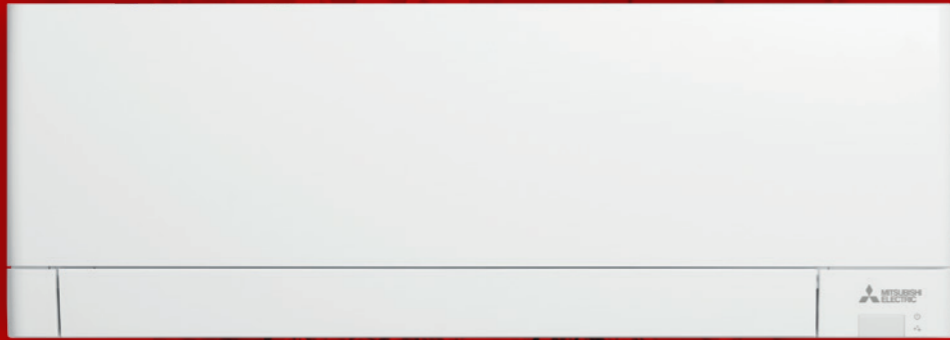
Wall mounted  
air conditioners

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

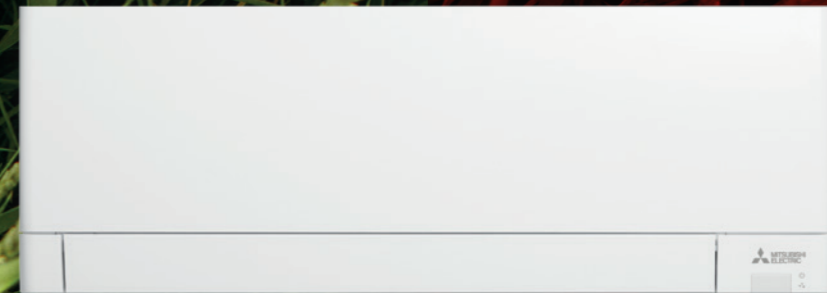
wall unit

- 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.

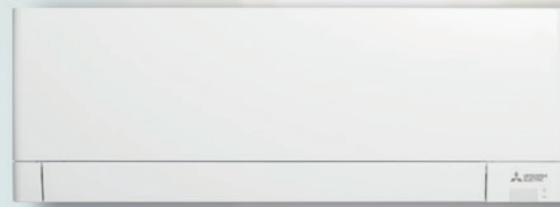
## RISPETTO PER L'AMBIENTE

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.

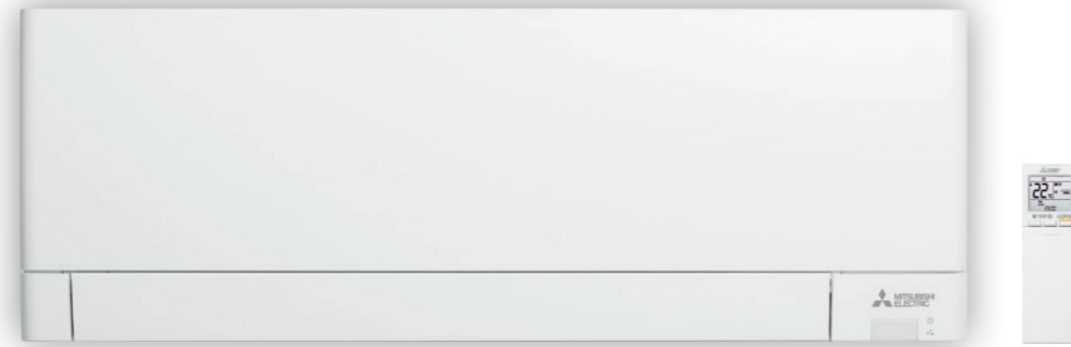
This is why **MSZ-AY is particularly suitable for domestic environments** such as bedrooms and living areas, where we carry out our daily activities and spend most of our time.



18 dB(A)

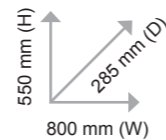
## MSZ-AY wall unit

**MSZ-AY 25-35-42-50**



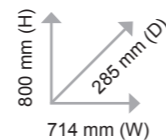
### The ideal solution for every space

AIR CONDITIONER  
**SIZES 25-35-42**  
 CAN BE COUPLED WITH  
 OUTDOOR UNIT  
**MUZ-AY25/35/42VG**  
 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 <sup>2</sup> 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



## 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

|           | Bacteria | Virus | Mould | Allergens | Dust | PM 2,5 |
|-----------|----------|-------|-------|-----------|------|--------|
| YESTERDAY |          |       |       | A+        | A+   |        |
|           |          |       |       | A+        | A+   |        |
|           | A+++     | A+++  | A++   | A++       | A+   |        |
| TODAY     | A+++     | A+++  | A+++  | A+++      | A+++ | A+++   |

## Plasma Quad Plus

### PLASMA QUAD PLUS air purification system

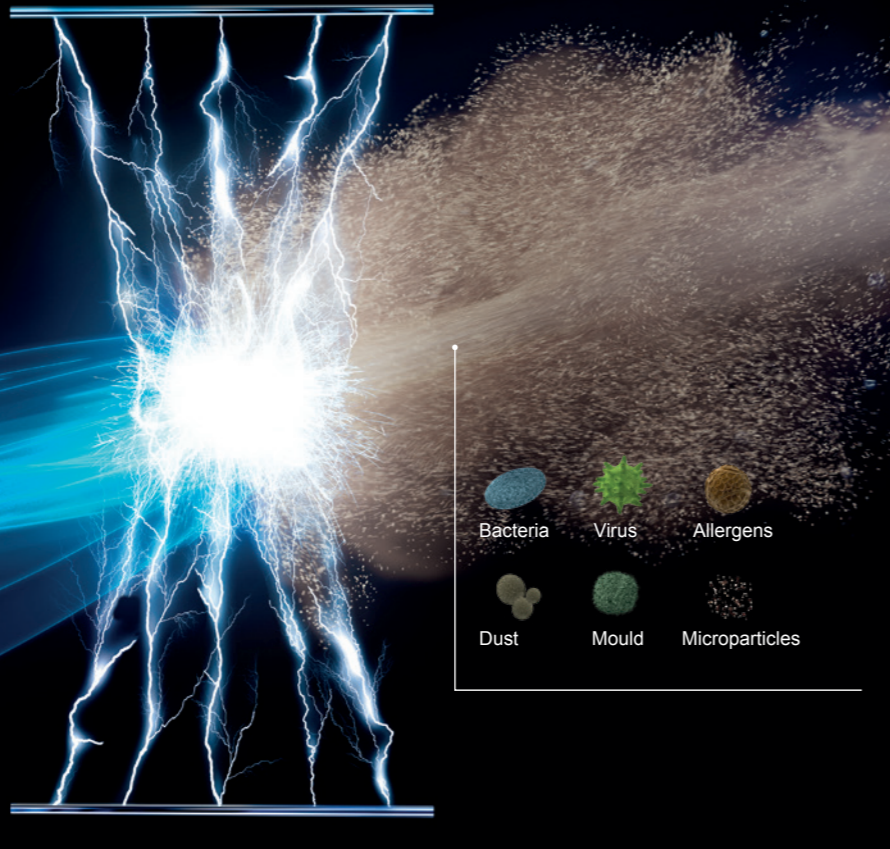
Although we may not see them, atmospheric contaminants of various sizes are ever-present in our homes: **pollen, mould, viruses and bacteria, mites and dust**. Over time, the presence of these contaminants can cause health problems, especially for allergy sufferers.

Mitsubishi Electric air conditioning systems with **Plasma Quad PLUS** filtration are designed to improve the quality of the air we breathe at home.

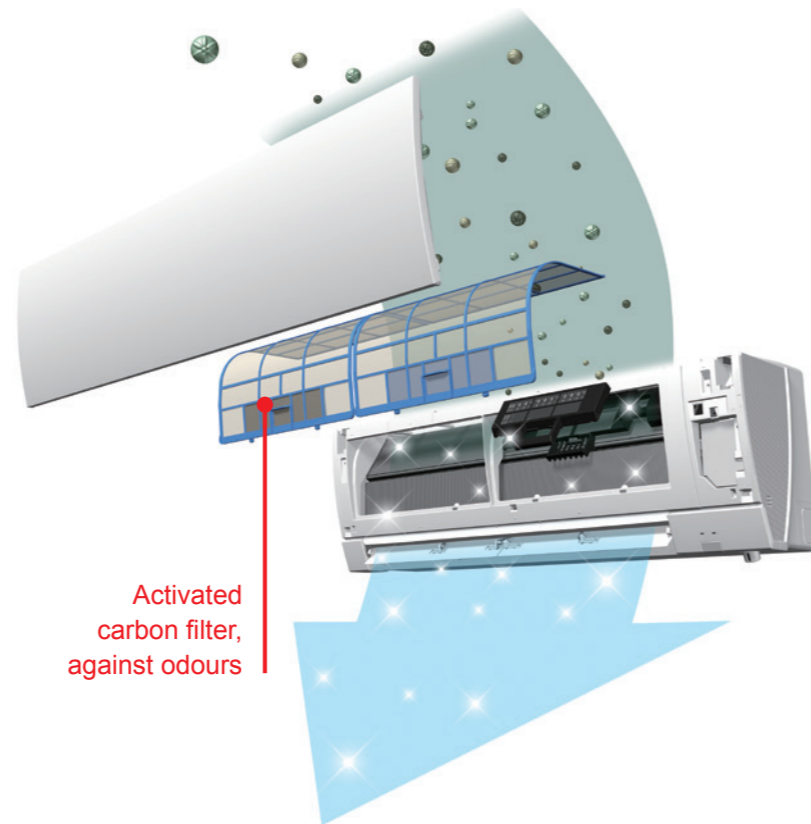
The Plasma Quad Plus technology exploits an electric field and a series of electric discharges onto the passing air, resulting in elimination of bacteria and viruses before the air is introduced to the room.

**Plasma Quad Plus**  
improves air quality

The PLASMA QUAD PLUS air filtration system is tested against activation of SARS-CoV-2 virus.



- 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



**NEW FUNCTION**

**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.

OFF

**WITHOUT SELF CLEAN MODE**

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

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OFF

**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

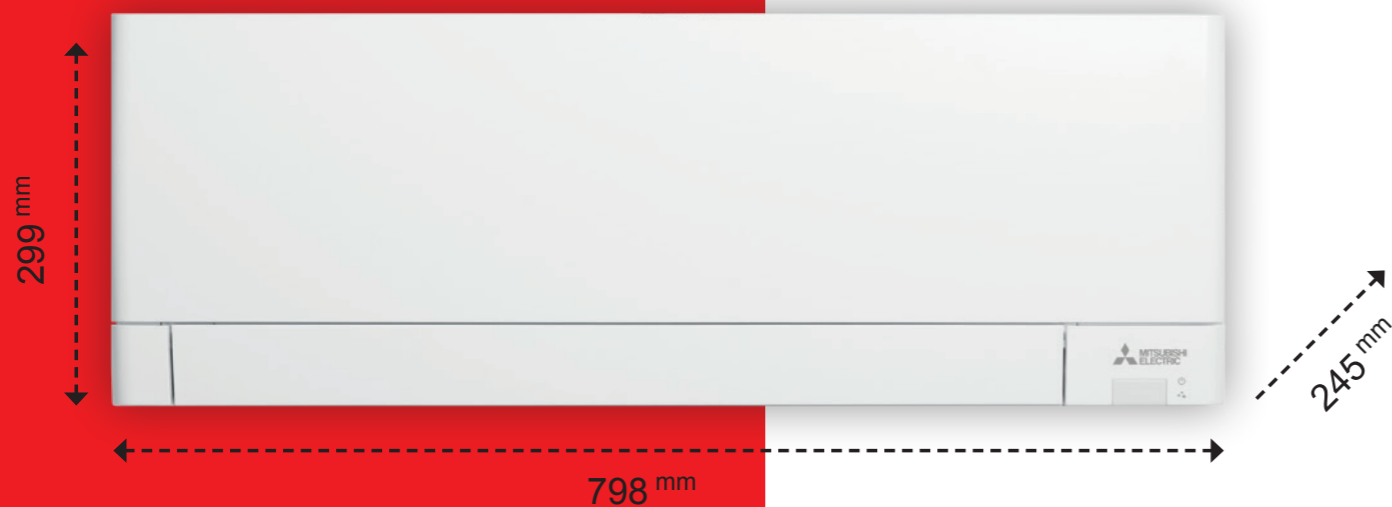
**Dual Barrier Coating** is a special double layer protective coating that **prevents deposition of dust and impurities** on the internal components of the air conditioner, even over long periods of time. This technology helps maintain the power needed for full-capacity operation. Preventing the formation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

|  |   |   |  |
|--|---|---|--|
| <p>✓ <b>Energy savings</b></p>  <p>High seasonal energy efficiency in <b>heating</b> and <b>cooling</b>.</p>  | <p>✓ <b>Multisplit version</b></p>  <p>Also available in the <b>MULTISPLIT</b> version, with the possibility of <b>connection</b>.</p>   | <p>✓ <b>Acoustic comfort</b></p>  <p>The MSZ-AY line of air conditioners guarantees <b>maximum acoustic comfort</b> inside the room.</p>               | <p>✓ <b>Elegant and compact design</b></p>  <p>New satin finish for an elegant and compact design suited to any type of room.</p>                   |
| <p>✓ <b>Greater savings on bills</b></p>  <p>Greater energy efficiency yields savings in electrical bills.</p>  | <p>✓ <b>Air purification</b></p>  <p>The <b>Plasma Quad Plus</b> air purification system suppresses viruses, bacteria, moulds, allergens and pollen. Also effective against <b>SARS-CoV-2</b>.</p> | <p>✓ <b>Lasting quality</b></p>  <p><b>Dual Barrier Coating</b> technology: prevents deposition of dust and impurities.</p>                            | <p>✓ <b>Air distribution</b></p>  <p>The <b>horizontal</b> and <b>vertical deflectors</b> direct airflow to all corners of the room.</p>            |
| <p>✓ <b>DC Inverter technology</b></p>  <p>Inverter technology ensures <b>superior performance</b> and <b>optimized control</b> of the operating frequency.</p> | <p>✓ <b>Self diagnosis</b></p>  <p>A self-diagnosis system facilitates <b>resetting operations</b>.</p>  | <p>✓ <b>Weekly timer</b></p>  <p>Set the <b>desired temperature</b> and ON/OFF operations in a weekly plan, according to occupant <b>habits</b>.</p> | <p>✓ <b>"I save" function</b></p>  <p>Select your <b>preferred setting</b>, such as night mode, using a <b>single button</b>.</p>                 |
| <p>✓ <b>Cooling at low temperatures</b></p>  <p>Cooling is ensured even at low outdoor temperatures, thanks to an intelligent control of the outside fan.</p>   | <p>✓ <b>Backlit remote-control display</b></p>  <p>The remote-control display is backlit, for <b>easy viewing even at night</b>.</p>   | <p>✓ <b>Night Mode</b></p>  <p><b>LED brightness</b> reduction, deactivation of "beep" sounds, reduction of outdoor unit sound by 3 dB.</p>          | <p>✓ <b>Auto restart</b></p>  <p>In the event of a power failure, the air conditioner <b>restarts automatically</b> when powered is restored.</p> |

MELCloud,  
just a tap  
or a word!



Compatible  
with Amazon Alexa  
and Google Home



# Technical Information

## 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 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



## MSZ-AY 25-35-42-50



### Technical specifications DC INVERTER / HEAT PUMP

| MODEL                            |                                       | SET                            | MSZ-AY25VGKP        | MSZ-AY35VGKP         | MSZ-AY42VGKP         | MSZ-AY50VGKP         |                      |
|----------------------------------|---------------------------------------|--------------------------------|---------------------|----------------------|----------------------|----------------------|----------------------|
|                                  |                                       | Indoor unit                    | MSZ-AY25VGKP        | MSZ-AY35VGKP         | MSZ-AY42VGKP         | MSZ-AY50VGKP         |                      |
|                                  |                                       | Outdoor unit                   | MUZ-AY25VG          | MUZ-AY35VG           | MUZ-AY42VG           | MUZ-AY50VG           |                      |
| Power supply                     | Voltage/Freq./Phases                  | V/Hz/no.                       | 230 / 50 / 1        | 230 / 50 / 1         | 230 / 50 / 1         | 230 / 50 / 1         |                      |
|                                  |                                       | Power supply side              | Outdoor unit        |                      |                      |                      |                      |
| Ecodesign performance<br>EN14825 | Cooling                               | PdesignC                       | kW                  | 2,5                  | 3,5                  | 4,2                  | 5,0                  |
|                                  |                                       | SEER                           |                     | 8,7                  | 8,7                  | 7,9                  | 7,5                  |
|                                  |                                       | Energy efficiency class        |                     | A+++                 | A+++                 | A++                  | A++                  |
|                                  | Average season heating                | Annual electricity consumption | kWh/a               | 100                  | 141                  | 186                  | 232                  |
|                                  |                                       | Pdesignh                       | kW                  | 2,4                  | 2,9                  | 3,8                  | 4,2                  |
|                                  |                                       | SCOP                           |                     | 4,8                  | 4,7                  | 4,7                  | 4,7                  |
| Hot season heating               | Energy efficiency class               |                                | A++                 | A++                  | A++                  | A++                  |                      |
|                                  | Annual electricity consumption        | kWh/a                          | 697                 | 863                  | 1131                 | 1248                 |                      |
|                                  | SCOP                                  |                                | 5,7                 | 5,9                  | 5,9                  | 6,1                  |                      |
| EN14511 performance              | Cooling                               | Rated capacity (min/max)       | kW                  | 2,5 (0,9 - 3,4)      | 3,5 (1,1 - 3,8)      | 4,2 (0,9 - 4,5)      | 5,0 (1,4 - 5,4)      |
|                                  |                                       | Rated absorbed power           | kW                  | 0,6                  | 0,99                 | 1,3                  | 1,54                 |
|                                  |                                       | EER                            |                     | 4,17                 | 3,54                 | 3,23                 | 3,24                 |
|                                  | Heating                               | Rated capacity (min/max)       | kW                  | 3,2 (1,0 - 4,1)      | 4,0 (1,3 - 4,6)      | 5,2 (1,3 - 6,0)      | 5,5 (1,4 - 7,3)      |
|                                  |                                       | Rated absorbed power           | kW                  | 0,78                 | 1,03                 | 1,39                 | 1,47                 |
|                                  |                                       | COP                            |                     | 4,1                  | 3,88                 | 3,74                 | 3,74                 |
| Indoor unit                      | Sizes                                 | H x W x D                      | mm                  | 299 x 798 x 245      | 299 x 798 x 245      | 299 x 798 x 245      | 299 x 798 x 245      |
|                                  | Weight                                |                                | kg                  | 11                   | 11                   | 11                   | 11                   |
|                                  | Air flow                              | Cooling                        | m <sup>3</sup> /min | 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                        | m <sup>3</sup> /min | 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 pressure<br>(SLo-Lo-Mid-Hi-SHi) | Cooling                        | dB(A)               | 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       | 18-24-31-38-45       | 21-29-35-40-45       | 28-33-38-43-48       |
| Sound power                      | Rated                                 | dB(A)                          | 57                  | 57                   | 57                   | 58                   |                      |
| Outdoor unit                     | Sizes                                 | 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                  | 27                   | 28,5                 | 34                   | 40,5                 |
|                                  | Sound pressure                        |                                | dB(A)               | 47 / 48              | 49 / 50              | 50 / 51              | 52 / 52              |
|                                  | Sound power                           | Rated                          | dB(A)               | 59                   | 61                   | 61                   | 64                   |
| Max. absorbed current            |                                       | A                              | 7,3                 | 7,3                  | 9,6                  | 13,5                 |                      |
| Refrigerated lines               | Diameters                             | Liquid/Gas                     | mm                  | 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 difference                |                                | m                   | 12                   | 12                   | 12                   | 12                   |
| Guaranteed function range        | Cooling                               | °C                             | -10 ~ +46           | -10 ~ +46            | -10 ~ +46            | -10 ~ +46            |                      |
|                                  | Heating                               | °C                             | -20 ~ +24           | -20 ~ +24            | -20 ~ +24            | -20 ~ +24            |                      |
| Refrigerant                      | Type / Precharge                      | kg                             | R32 / 0,55          | R32 / 0,55           | R32 / 0,70           | R32 / 1,00           |                      |
|                                  | GWP / Tons. Co <sub>2</sub> Eq.       |                                | 675 / 0,37          | 675 / 0,37           | 675 / 0,47           | 675 / 0,68           |                      |

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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-2305280 (18000)

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