MITSUBISHI ELECTRIC
*Changes for the Better*

# Air conditioning and ventilation range

Knowledge at work.

## The expertise of a global brand

**Solutions and advisory services**

Mitsubishi Electric has been synonymous with experience and innovation in equal measure for 100 years. Our company consistently sets new standards in air conditioning technology and, with its extensive range of products, has established itself as one of the foremost global manufacturers. Our VRF R2 and Zubadan technologies have both become brands that are now bywords in the industry for highly efficient technology. We provide our customers with first-class, reliable services as well as specific solutions and sophisticated technologies.

**First-class services**

For instance, we support customers at the design stage with well laid-out design and service manuals, as well as tender documents in a range of file formats. Naturally, everything is available online. Apart from comprehensive planning support, including helpful design software, we also organise a wide range of practical training courses that deliver sound basic knowledge or enlarge upon existing expertise.

**Forward-looking air conditioning technology**

Mitsubishi Electric air conditioning systems cool, heat and filter the air in a large number of buildings, whether in residential or commercial premises. State-of-the-art inverter technologies and the use of ozone-neutral refrigerants ensure maximum energy efficiency and optimal climate comfort. Made-to-measure solutions can be implemented with ease thanks to the exceptional versatility of our systems, including aspects such as long pipe runs, easy-to-install indoor units and smart controls.

**Active environmental protection**

Climate protection is an important global issue which will play a crucial role in shaping our future. Mitsubishi Electric has a long history of reducing $CO_2$ emissions using advanced technology and highly energy-efficient products. This tradition is set to continue into the future as a result of the environmental initiative for 2050. We have committed ourselves to long-term climate protection as part of this initiative, targeting a 80% reduction in global $CO_2$ emissions by 2050 through the conservation of natural resources in production processes, product usage and recycling. Naturally, though, we wish to go further and will continue to target our efforts in future towards the development of additional innovative products that help preserve the environment.

## Overview: explanation of symbols

This section explains the symbols that are used to denote the relevant unit functions on the various product pages.

## Functions: comfort

**MELCloud**

The unit can be equipped with a Wi-Fi adapter and controlled remotely via smartphone, tablet or PC using the control software MELCloud. Further information on mobile control is available on **page 242.**

**Econo Cool**

Saves additional energy via an automatic 2 °C increase in the set temperature in cooling mode. Cooling capacity is reduced to a minimum, but a special fan programme ensures that this is not noticeable.

|  | Without Econo Cool | With Econo Cool |
|---|---|---|
| Outside temperature | 35 °C | 35 °C |
| Configured setpoint | 25 °C | 27 °C |
| Apparent temperature | 30 °C | 29.3 °C |

**On/off timer**

The on/off timer can be used to configure fixed switch-on and switch-off times.

**Weekly timer**

The weekly timer can configure up to four individual switching points for each day, enabling flexible switch-on and switch-off of the unit. A temperature specification can also be provided for each switching point to ensure demand-oriented and energy-saving control.

**Night mode**

The new night mode comfort function automatically reduces the noise level of the outdoor unit by 3 dB(A). In addition, the LED on the indoor unit is dimmed and the remote controller mutes the beep tone during operation.

**3D i-see sensor**

The 3D i-see sensor detects the position of the persons in the room, using the acquired data to direct the air flow such that this does not affect the persons present.

**i-save**

The i-save function can be used to save the preferred operating mode. This operating mode can then be accessed by pressing the i-save key.

**Silent**

Whisper mode for particularly low levels of operating noise, e.g. during the night.

**Cool-down protection**

The minimum temperature that can be configured in heating mode is 10 °C. This ensures economical operation in unused rooms and prevents excess cool-down.

**Can be connected to cable remote controller**

The unit can be equipped with a cable remote controller.

# Functions: air quality

### Horizontal swing

The air outlet flap swings back and forth, thereby ensuring a supply of conditioned air even in larger rooms.

### Vertical swing

The air outlet flap moves up and down, thereby ensuring pleasant distribution of the conditioned air throughout all areas of the room.

### Wide & long

The unit boasts particularly long throw distances of up to 12 m, thereby ensuring air conditioning even in larger rooms. The vertical air outlet angle can be set to one of seven different directions.

Spot airflow (5 patterns)

Area specific    Full airflow

SWING

12 m
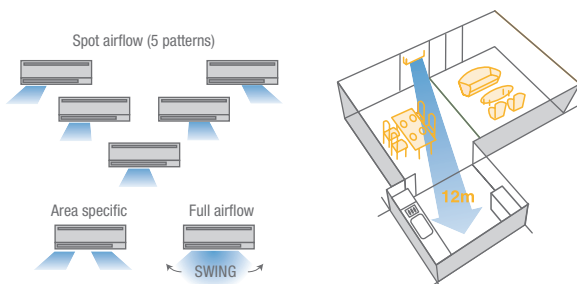
### Automatic fan control

Ensures the optimum air volume depending on the output requirements. If a high output is required shortly after switch-on, the unit automatically switches to a high stage. The air volume is automatically reduced once the desired temperature is reached.

### Plasma Quad Connect filter

### Plasma Quad Plus filter

Plasma Quad Plus filter technology ensures highly effective air purification.

Plasma ionisation and the electrostatically charged filter ensure that even the smallest particles (PM2.5; <2.5 µm) such as pollen, viruses, mould, bacteria and allergens are separated and rendered harmless.

### Plasma odour filter

Featuring a surface area of approx. 300 $m^2$, the filter is particularly effective at neutralising and eliminating odours from the room air.

### Silver ion air purification filter

Silver ion technology achieves extremely high air purification, which effectively removes bacteria, pollen and allergens from the room air. The extremely high filter efficiency ensures the capture of particles measuring 1~10 µm and above.

Silver ion air purification filter

### Air purification filter

Filters coarse dust (>800 µm) from room air and prevents contamination of the heat exchanger.

Air purification filter

### Air purification filter with silver ion coating

Filters coarse dust (>800 µm) from room air and prevents contamination of the heat exchanger. The silver ion coating enables the filter to reliably eliminate odours while separating bacteria and mould from the room air.

Air purification filter with silver ion coating

### High-performance oil mist filter

The oil mist filter effectively separates oils and fats from the ambient air while protecting the air conditioning unit against heavy contamination. This disposable filter must be replaced every 2 months.

## Functions: technology

**Inverter**

The outdoor unit is equipped with energy-saving inverter technology.

**Standard Inverter**

The outdoor unit is equipped with Standard Inverter technology.

**Power Inverter**

The outdoor unit is equipped with Power Inverter technology.

**Zubadan Inverter**

The outdoor unit is equipped with patented Zubadan Inverter technology.

For detailed information on inverter technology, please see **pages 276 and 277.**

**Replace technology**

The inverter outdoor unit is equipped as standard with Replace technology, which enables easy reuse of existing R22 and R407C pipes.[1]

1  See our M-series design documents for information on the compatibility of existing pipe cross-sections with the new units.

**Quality seal for split units**

The German Building Air Conditioning Association (FGK) has bestowed its quality seal for room air conditioning units on the split air conditioning unit.
Further information is available on **page 15.**

## Functions: installation/maintenance

**Fresh-air connection**

Fresh outside air can be supplied to the room via the standard connection, with the air volume equating to as much as 10 % of the rated air volume of the respective unit. A booster fan is required in order to supply outside air.

**Heat pump operation**

The heat pump function enables energy-saving heating of the rooms. High efficiency even at low temperatures leads to low energy consumption, and conventional heating systems can be replaced with heat pumps in many cases.

**Can be connected to VRF via LEV kit**

Makes it possible to connect M-series indoor units to City Multi VRF systems. The LEV kit provides the external electronic expansion valve that indoor units need for operation with City Multi VRF systems.
For more information on connection options, see **page 164.**

**Winter regulation**

The integrated winter regulation enables cooling mode even at low outside temperatures. The outdoor unit fan speed is automatically reduced in order to maintain stable condensation pressure. If the outdoor unit is exposed to strong winds, then a wind protection panel is required (available as an accessory).

**Multi-split**

Size permitting, up to four indoor units can be connected to one outdoor unit but the supply can only be provided to one climate zone. Please note the approved combinations.

**Switching back on after voltage failure**

When the voltage is restored, the units automatically start up with the previously selected settings. This ensures a high level of operational reliability.

**R 410 A  Precharged with R410A**

To ensure easy installation, the outdoor units are precharged with sufficient refrigerant for a pipe length of up to 30 m[1].

1  Depending on unit type.

**R 32  Precharged with R32**

R32 (difluoromethane [CH2F2]) belongs to the group of HFC refrigerants and has been used as a component of R410A refrigerant for many years. Given its GWP of 675, it already meets the requirements of the F-gas Regulation for the year 2025.

**Condensate pump**

The units feature an integrated condensate pump as standard for easy condensate removal. The delivery head is determined by the indoor unit type.

**Refrigerant charge level check**

Checks the system for leaks and can be activated via the cable remote controller PAR-40MAA.

**Redundancy function**

Implements an operating hours offset and fault switchover. Except for remote controller PAR-40MAA, no accessory parts are required for this function.

**Scope of functions[2]**

Rotation: automatic operation switchover between the two systems at fixed intervals of 1 to 28 days to offset operating hours.

Back-up: if one system has a fault, the second system starts automatically.

Join-in: if the configured target temperature is exceeded, the second system starts automatically. The second system stops once the target temperature is reached again. This function is only available in cooling mode.

2  These functions are only available for P-series outdoor units up to size 140 and cannot be used in multi-split applications.

# Contents

## Benefits and properties

**Modern filter technology for tackling air pollutants**
To reduce pollutants in the room air, you should ensure thorough ventilation and use effective filters: the latter are largely integrated as standard in our wall-mounted units MSZ-LN, MSZ-EF and MSZ-AP and in our floor-standing unit MFZ-KT. Such filters are also suitable for easy retrofitting. Read on to discover which filters are fitted in the various units and which filters are available for optional retrofitting.

**Air purification filters[1]**
With its silver-ion coating, the filter not only repels dirt but is also effective at tackling bacteria, mould and odours. The three-dimensional surface expands the draw-in area of the filter and enables optimised dust elimination performance compared with conventional filters.

1  Not compatible with MSZ-LN

Suppression of bacteria
and mould

Removal
of unpleasant odours
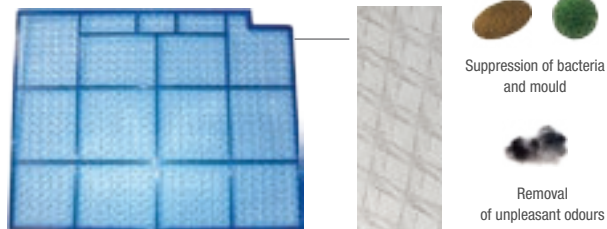
**Odour filter**
The catalytic converter in the odour filter denatures odour components and eliminates them at the source of the odour. This ensures speedy removal of unpleasant odours from the room air.

Removal
of unpleasant odours

**Plasma Quad Plus/Plasma Quad Connect**
Plasma Quad Plus is a plasma-based filter system for effective removal of six pollutant types. A high-voltage electrode releases plasma through discharge in order to neutralise viruses, bacteria, allergens and mould. The remaining charged PM2.5 (fine dust with an aerodynamic diameter of less than 2.5 micrometres) and dust are absorbed by the filter.

Bacteria

Allergens

PM2,5    Mould

**99 %**
removal

**98 %**
removal

**99,7 %**
removal
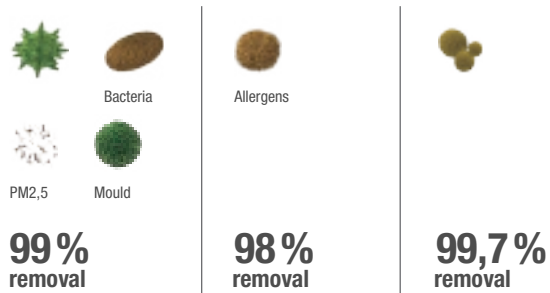
**Silver-ion filter**
The silver-ion filter is made from non-woven material and can capture smaller particles such as bacteria, mould and allergens. The silver ions and enzymes contained in the filter effectively tackle and neutralise bacteria and allergens.

Suppression of bacteria and
allergen growth

**From dust-free to antibacterial**
This table provides a complete overview of the Mitsubishi Electric filter models, their functions and the units in which they are used.

| Filter functions and effectiveness Series | Bacteria | Viruses | Mould | Allergens[2] | Fine dust 2.5 μm | Odours | Coarse dust > 800 μm | Finer dust 1~10 μm |
|---|---|---|---|---|---|---|---|---|
| MSZ-LN | ● | ● | ● | ● | ● | ● | ● | ● |
| MSZ-EF | ● | ○ | ● | ● | ○ | ● | ● | ● |
| MSZ-AP[1] | ● | ○ | ● | ○ | ○ | ● | ● | ○ |
| MFZ-KT (floor-standing) | ● | | ● | ● | | ● | ● | ● |
| MLZ-KP (1-way) | ● | | ● | ○ | | ● | ● | ○ |
| SLZ-M (Euro grid) | | | | | | | ● | |
| SEZ-M (ceiling) | ○ | ○ | ○ | ○ | ○ | | ● | ○ |

1 AP15/20 cannot use any filter due to small chassis
2 Allergens are only rendered harmless with MSZ-LN (Plasma Quad). The silver-ion filter is merely able to capture allergens

● Standard
○ Optional

**Certified quality**
All our filter elements undergo detailed checks to assess their functionality and filter capacity. This includes a variety of tests performed by the suppliers of the filter components, by our in-house company test laboratories and of course by independent institutes.

| Indoor unit name | Pollutants | Test method | Test organisation | Report number | Result |
|---|---|---|---|---|---|
| **Plasma Quad Plus** | Viruses | JEM1467: 2015 | vrc.center, SMC | 28-002 | Neutralises 99% of influenza A virus particles in 72 minutes within a 25 m³ test area |
| | Bacteria | JEM1467: 2015 | KRCES-Bio. | 2016-0118 | Neutralises 99% of Staphylococcus aureus bacterium in 162 minutes within a 25 m³ test area |
| | PM2.5 | JEM1467: 2015 | Mitsubishi Electric Corporation[1] | – | Neutralises 90% of PM2.5 particles in 83 minutes and 99% of PM2.5 particles in 166 minutes within a 28 m³ test area |
| | Allergens | – | ITEA Inc. | T1606028 | Neutralises 98% of cat hair and pollen |
| | Mould | JEM1467: 2015 | Japan Food Research Laboratories | 16069353001-0201 | Neutralises 99% of Penicillium citrinum fungus in 135 minutes within a 25 m³ test area |
| | Dust | – | ITEA Inc. | T1606028 | Neutralises 99.7% of dust and mites |
| **Silver-ion filter** | Bacteria | JIS L1902 : 2008 | Boken Quality Evaluation Institute | 40115004166 | Neutralises 99.9% of Staphylococcus aureus and E. coli bacteria in 18 hours |
| | Allergens | – | Shinshu University | – | Confirmed adsorption and decomposition of a manifestation of ticks |
| **Odour filter** | Odour | – | In-house inspection performed by supplier | – | Deodorises 80% of tobacco, 80% of methanthiol, 85% of formaldehyde and 90% of acetaldehyde in 30 minutes |
| **Air purification filter** | Bacteria | JIS L1902: 1998 | In-house inspection performed by supplier | 0406NI4-1 | Neutralises 99.9% of Staphylococcus aureus, Klebsiella pneumoniae and E. coli bacteria in 18 hours |
| | Mould | JIS Z2911: 2000 | In-house inspection performed by supplier | 0406NI4-3 | Confirmed: no mould growth |
| | Odour | JEM1467: 1995 | In-house inspection performed by supplier | – | Confirmed deodorising effect of ammonia: 50% or more |

1 In-house company inspection
JEM: standards of the Japan Electrical Manufacturers' Association
JIS: Japan Industrial Standards

## Benefits and properties

### Comfort

**Room air conditioning units for optimum 'feel good' climate**

The M-series air conditioning units from Mitsubishi Electric are the ideal choice for greater living comfort in small to medium-sized spaces – in homes, doctors' practices, offices and shops alike.

Performance range from 1.5 kW to 18.0 kW for cooling and heating

**Hygienic pure air**

Depending on the unit type, the filter elements from Mitsubishi Electric not only eliminate dust, odours and pollen but also viruses and bacteria.

Silver ion filters are available as standard or as option for many units.

**Whisper-quiet operation**

The quietest room air conditioning units from Mitsubishi Electric emit only 19 dB(A) during operation. They are almost silent and thus ideally suited to cooling bedrooms.

**Anti-draught functions**

Thanks to technical innovations such as the 3D i-see sensor, the air conditioning units are able to direct the air flow so as to eliminate draughts. The 3D i-see sensor detects the number and position of persons in the room, adapting the heating and cooling output accordingly to ensure that the desired temperature is achieved in the right location.

**Detects the position of persons**
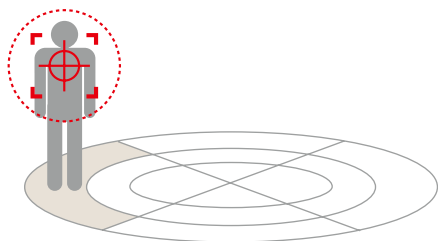
**Detects the number of persons**
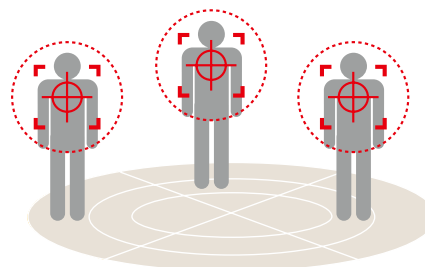
The Euro grid cassette SLZ-M is optionally equipped with the 3D i-see sensor and features horizontal air flow.

| Road tunnel | Car (40 km/h) | Library | Leaves rustling | Limit of human hearing (very quiet) |
|---|---|---|---|---|
| 80 dB(A) | 60 dB(A) | 40 dB(A) | | 10 dB(A) |

Only 19 dB(A)
(MSZ-LN, MSZ-EF and MSZ-AP wall-mounted unit)
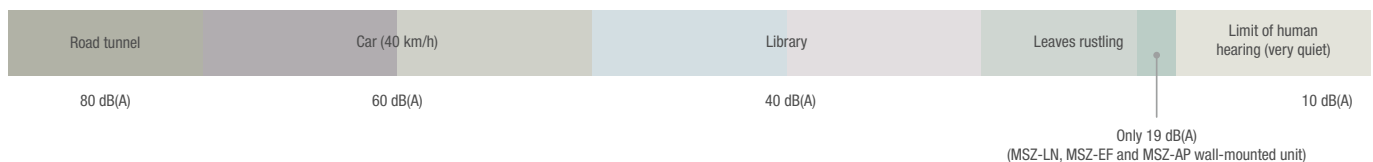
## Energy-efficient

**Maximum energy efficiency**

Mitsubishi Electric air conditioning systems are designed for energy-saving operation. Thanks to the use of inverter technology, the compressor output always adapts to suit the actual cooling and heating demand of the system and thus ensures extremely efficient operation.

**ErP Directive and energy efficiency classes**

The ErP Directive governs the labelling of products that consume energy (known as 'Energy-related Products'). At a glance, consumers must be able to see just how energy efficient and loud the units featuring the energy efficiency label are. M-series air conditioning units are expert at conserving energy which makes them belong to the highest energy efficiency classes. belong to the highest energy efficiency classes. For further information on related aspects such as the Ecodesign Directive and other important regulations, visit **www.my-ecodesign.com.**

## Quality

**Quality seal for room air conditioning units**

The German Building Air Conditioning Association (FGK) has bestowed its quality seal for room air conditioning units on all split units with heat pump function. The key criteria for receipt of this award include:

- Maximum energy efficiency – only inverter units can carry the quality label.
- Guaranteed availability of spare parts within two working days, with availability for a minimum of ten years.
- Comprehensive training programmes, design support and full documentation.
- Guaranteed compliance of the technical data in catalogues with the performance data required by EN 14511 or EN 14825.

**Installation and retrofitting made easy**

- The development of our products is inspired not only by demanding requirements in terms of efficiency and convenience, but also by aspects such as easy installation and maintenance of the air conditioning systems.
- The compact dimensions of the indoor and outdoor units ensure flexible installation,
- The multisplit inverter systems can be retrofitted and expanded at any time. At least two indoor units are required as the basis, with operators subsequently free to use as many as eight indoor units.



The energy efficiency label helps you choose an air conditioning unit by providing transparent energy efficiency information. The data featured on the label is stipulated by the Energy Labelling Directive, offering an at-a-glance overview of the energy efficiency class of the unit in cooling and heating mode as well as its sound pressure level.

## Benefits and properties

### Limitless possibilities

**Use in technology rooms**

Careful planning is essential when using air conditioning units in server rooms or other climate-sensitive technology rooms. Technology rooms largely require the discharging of sensitive output, meaning that the planning of air conditioning units must be based on their sensitive cooling capacity – not the overall cooling capacity. The M-Series MUSY-TP and additional professional solutions in the chapter it/technology room solutions are ideal for ensuring reliable air conditioning of technical applications.

**Wired remote controllers PAR-40MAA and PAC-YT52CRA**

All units in the M-series can also be operated using cable remote controllers (with a connection adapter required according to the unit model). Operators can choose between two remote controllers, namely the compact remote controller PAC-YT52CRA and the deluxe remote controller PAR-40MAA featuring a convenient weekly timer function. Both remote controllers boast a backlit liquid crystal display and are easy to use.

**System variants**

• Easy-to-install indoor units available as ceiling cassettes, ceiling suspended units, ceiling concealed units, wall-mounted units and floor-standing units.
• Voltage supply 230 V, 1 phase, 50 Hz and 380–415 V, 3 phases, 50 Hz.

**Combination and expansion as required**

If you want to provide air conditioning in a room, boost living comfort or generate a pleasant working atmosphere, look no further than the wide range of air conditioning solutions from Mitsubishi Electric. The A-CONTROL system in all M-series inverters and Mr. Slim units offers a rich variety of combination options beyond the respective series. For example, the outdoor units in the M-series can be connected to the indoor units in the Mr. Slim series. Indoor units in the M-series can also be connected to City Multi VRF outdoor units with the help of connection kits.

All white indoor units are coloured pure white (approximately RAL 9010). The wall-mounted units feature a modern flat panel design.

**LEV kit connection to City Multi VRF**



LEV kit

LEV kit
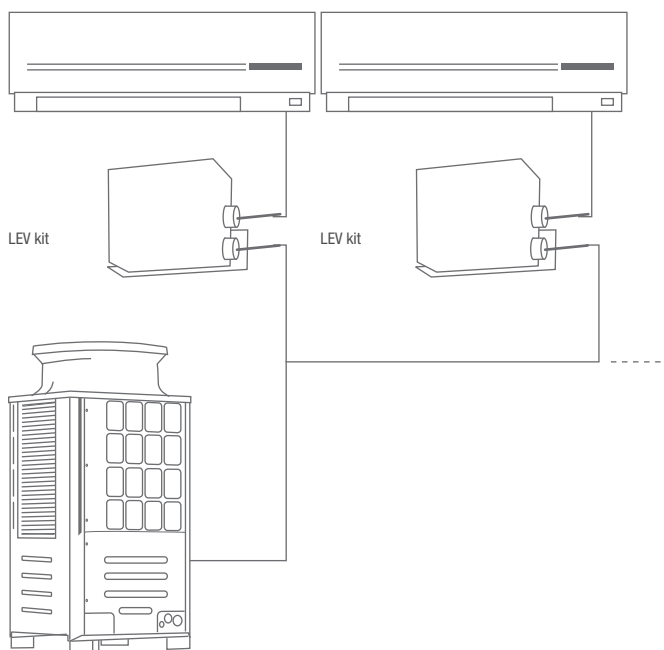
City Multi outdoor unit

## Two systems cater to all needs

Every split air conditioning system comprises one outdoor unit and at least one indoor unit, with the outdoor unit always located outside of the apartment or building. Depending on the requirements and the number of rooms requiring air conditioning, you can use your M-series system as either a single-split or multi-split solution.

**Single-split: air conditioning of one room**

If a single indoor unit is connected to an outdoor unit via a cooling pipe, this constitutes a single-split system. It represents a quick and easy way to equip a room with air conditioning.

**Multi-split: air conditioning of multiple rooms**

In multi-split systems, multiple indoor units can be connected to an outdoor unit. This space-saving solution ensures individual air conditioning of multiple rooms.

Single-split and multi-split application

Single-split system

Multi-split system

## What's new

**Plasma Quad Connect: optional filter kit**
The benefits of Plasma Quad Plus technology are now available for many M-series units (compatible with all MSZ, PKA-M and SEZ-M models). Plasma Quad Plus filter technology ensures highly effective air purification. Plasma ionisation and the electrostatically charged filter ensure that even the smallest particles (PM2.5; <2.5 μm) such as pollen, viruses, mould, bacteria and allergens are separated and rendered harmless.
Available as of May 2021
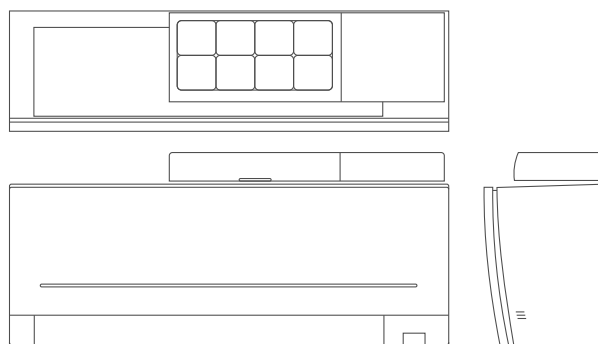
# Overview of functions

| Technology | | Wall-mounted unit MSZ-LN | Wall-mounted units MSZ-EF | Wall-mounted units MSZ-AP(15–50) | Wall-mounted units MSZ-AP60/71 |
|---|---|---|---|---|---|
| **Outdoor units** | Inverter | ● | ● | ● | ● |
| | Replace technology | ● | ● | ● | ● |
| | Seal of quality for room air conditioning | ● | ● | ● | ● |
| **Installation/maintenance** | | | | | |
| **Outdoor units** | Heat pump operation | ● | ● | ● | ● |
| | Winter regulation | ● | ● | ● | ● |
| | Switching back on after voltage failure | ● | ● | ● | ● |
| | Precharged with R32 | ● | ● | ● | ● |
| **Indoor units** | Fresh-air connection | | | | |
| | Can be connected to VRF via LEV kit | ● | ● | ● | |
| | Condensate pump | | | | |
| **Comfort** | | | | | |
| **Indoor units** | MELCloud | ● | ● | ● | ● |
| | Econo Cool | ● | ● | ● | ● |
| | On/off timer | ● | ● | ● | ● |
| | Weekly timer | ● | ● | ● | ● |
| | 3D i-see sensor | ● | | | |
| | i-save | ● | ● | ● | ● |
| | Silent | ● | ● | ● | ● |
| | Cool-down protection | ● | | ● | ● |
| | Wired remote controller is connectable | ●[3] | ●[3] | ●[3] | ●[3] |
| | Night mode | ● | | ● | ● |
| **Air quality** | | | | | |
| **Indoor units** | Horizontal swing | ● | | ●[2] | ● |
| | Vertical swing | ● | ● | ● | ● |
| | Wide & Long | | | | ● |
| | Automatic fan control | ● | ● | ● | ● |
| | Plasma Quad Connect filter | | ●[1] | ●[1] | ●[1] |
| | Plasma Quad Plus filter | ● | | | |
| | Silver ionized air purification filter | ●[1] | ● | ●[1, 2] | ● |
| | Air purification filter | ● | | | |
| | Air purification filter with silver ion coating | | ● | ● | ● |
| | Plasma odour filter | ● | | | |

1  Option.
2  Not available for sizes 15 and 20.
3  MAC-397IF-E

| Floor-standing units MFZ-KT | 1-way ceiling cassettes MLZ-KP | 4-way ceiling cassettes SLZ-M | Ceiling concealed units SEZ-M |
|---|---|---|---|
| • | • | • | • |
| • | • | • | • |
| • | • | • | • |
| | | | |
| • | • | • | • |
| • | • | • | • |
| • | • | • | • |
| • | • | • | • |
| | | • | • |
| • | | | |
| | • | • | |
| | | | |
| •[1] | •[1] | •[1] | •[1] |
| • | • | | |
| • | • | • | • |
| • | • | • | • |
| | | •[1] | |
| • | | | |
| • | | | |
| •[3] | •[3] | • | • |
| | | | |
| | • | | |
| • | • | • | |
| • | • | • | • |
| | | | •[1] |
| • | •[1] | | |
| | | • | • |
| • | • | | |

For a detailed description of the function symbols, see pages 06 – 09.

# Indoor units

| | Inverter cooling and heating |
|---|---|
| | Page reference |

| Performance code | 15 | 18 | 20 | 25 | 35 | 42 | 50 | 60 | 71 |
|---|---|---|---|---|---|---|---|---|---|
| Cooling capacity (kW) | 1,5 | 1,8 | 2,0 | 2,5 | 3,5 | 4,2 | 5,0 | 6,0 | 7,1 |
| Heating capacity (kW) | 1,7 | 2,2 | 2,5 | 3,2 | 4,0 | 5,4 | 5,8 | 7,0 | 8,1 |

Wall-mounted units MSZ-LN

24 – 27

Wall-mounted units MSZ-EF

28 – 29

reddot award 2018
winner

Wall-mounted units MSZ-AP

30 – 33

Floor-standing units MFZ-KT

34 – 35

reddot award 2018
winner

1-way ceiling cassettes MLZ-KP

36 – 37

4-way ceiling cassettes SLZ-M

38 – 39

Ceiling concealed units SEZ-M

40 – 41
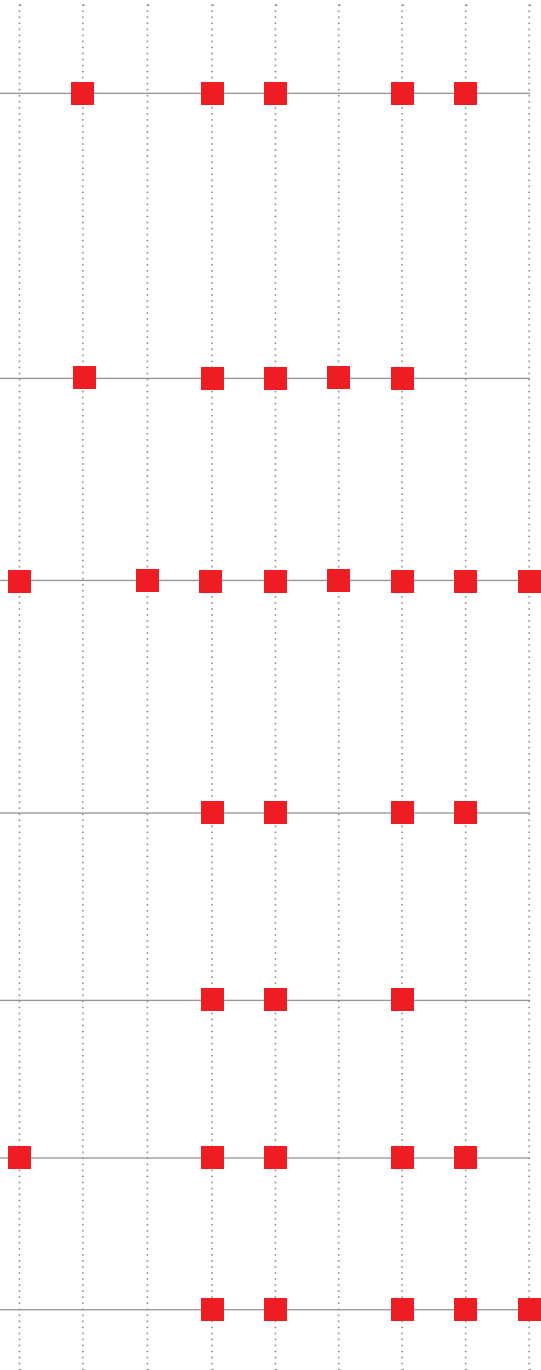
# Multi-split outdoor units

| Max. no. of indoor units | 2 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 5 | 6 | 8 | 8 | 8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cooling capacity (kW) | 3,3 | 4,2 | 5,3 | 5,4 | 6,8 | 7,2 | 8,0 | 8,3 | 10,2 | 12,2 | 12,5 | 14,0 | 15,5 |
| Heating capacity (kW) | 4,0 | 4,5 | 6,4 | 7,0 | 8,6 | 8,6 | 8,8 | 9,3 | 10,5 | 14,0 | 14,0 | 16,0 | 18,0 |

## R32 outdoor units

MXZ-2F33VF3, MXZ-2F42VF3, MXZ-2F53VF3
46

MXZ-3F54VF3, MXZ-3F68VF3
46

MXZ-4F72VF3, MXZ-4F80VF3
46

MXZ-4F83VF, MXZ-5F102VF
47

MXZ-6F122VF
47

## R410A outdoor units

PUMY-P112VKM/YKM
PUMY-P125VKM/YKM
PUMY-P140VKM/YKM
PUMY-SP112VKM/YKM
PUMY-SP125VKM/YKM
PUMY-SP140VKM/YKM
48 – 49
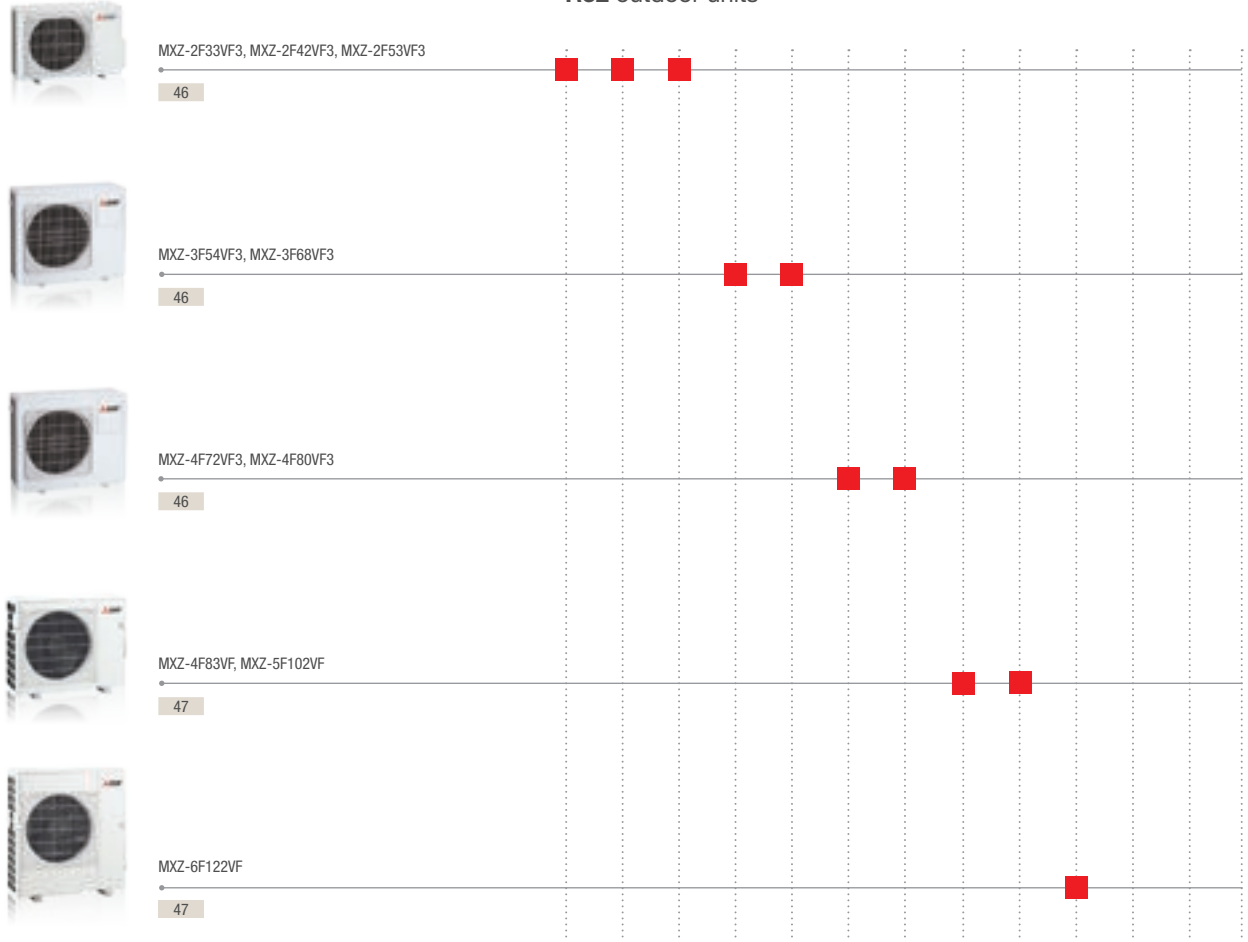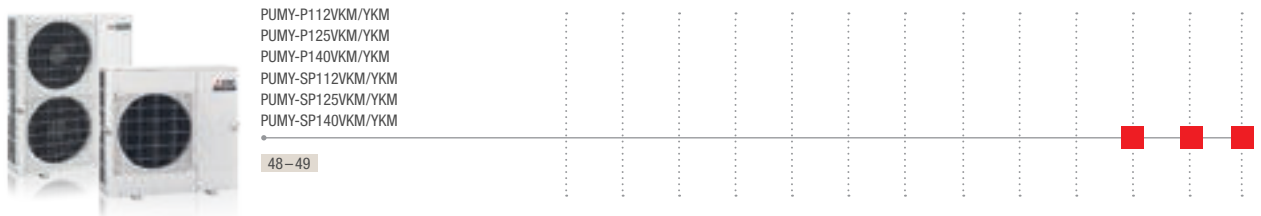
For dimension graphics
open PDF excerpt.
leslink.info/dimensions
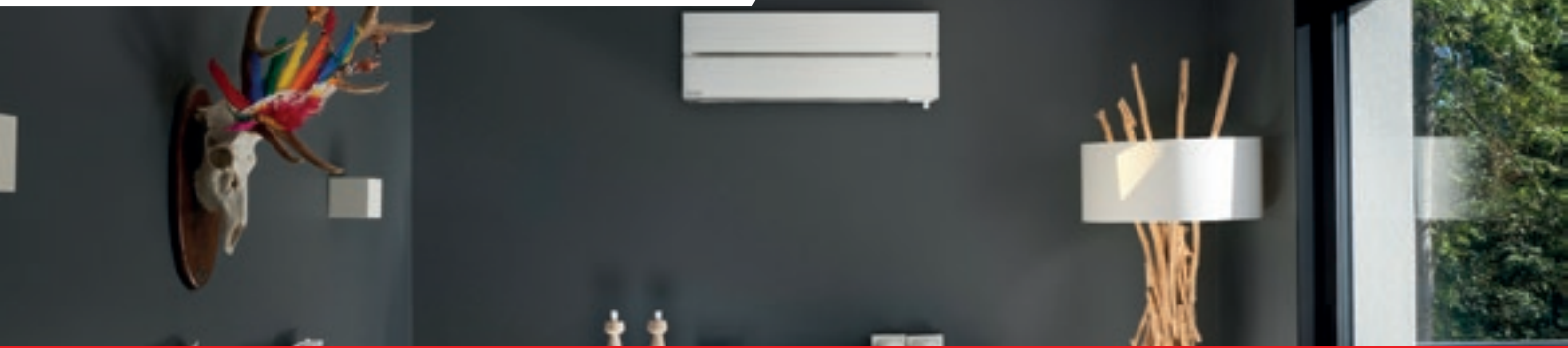
# Diamond wall-mounted units MSZ-LN

## Highlights

- SCOP up to 5.2 / SEER up to 10.5
- Energy efficiency class up to A+++ / A+++
- Sound pressure level from 19 dB(A)
- Low refrigerant charge quantity (standard single split) 0.80 kg up to max. 1.91 kg

**Plasma Quad Plus operating principle**

Dirty air

Dust, PM2.5
Viruses          Bacteria
Mould            Allergens

Wire             Wire

**Step 1**
- Generation of plasma.
- Mould and allergens are rendered harmless.
- Viruses are suppressed.
- Dust and PM2.5 are statically charged.

**Step 2**
- Generation of a powerful electric field.
- Absorption of dust and PM2.5 (+).

Clean air

The wall mounted MSZ-LN not only features an extraordinarily eye-catching design, it also combines a host of innovative functions.

**3D i-see sensor**
- Energy efficiency thanks to person recognition in the room
- Extremely comfortable air distribution as a result of automatic airflow adjustment

**Filter**
- Air filter
- Plasma Quad Plus
- Plasma odour filter

**Odour neutralisation via plasma odour filter**
Featuring a surface area of approx. 300 m², the filter is particularly effective at eliminating odours from the room air.

**Double vane function**
- Two independently operating air outlet vanes ensure particularly efficient air distribution in the room

**MELCloud WiFi adapter**
- With integrated WiFi adapter as standard

**Infrared remote controller with weekly timer function and backlit display included in scope of supply**

Natural White

### Accessories

| Type designation | Description | Quantity |
|---|---|---|
| MAC-2390FT-E | Silver-ionized air purification filter | 10 |
| MAC-3010FT-E | Deodorizing filter (replacement filter) | 10 |
| MAC-1300RC | Remote controller holder | 15 |

MUZ-LN25/35VG2    MUZ-LN50VG2    MUZ-LN60VG    MSZ-LN18–60VG2 W

**R32**

# Diamond wall-mounted units
## Split-inverter/Cooling and heating

| 3D i-see-Sensor | WiFi MELCloud | Wired Remote Control connectable (optional) | Econo Cool | Weekly | I SAVE | Silent | ON/OFF | Low-heating Set Point | Night | Horizontal Swing | Vertical Swing | Auto | Plasma-Quad-Plus | Odor Filter |

| Standard Filter | Silver Ion (optional) | Low-temperature Cooling | Low-temperature Heating | Auto Restart | Pre-charged | VRF LEV-Kit | Certified Quality | INVERTER | REUSE PIPING |

## MSZ-LN inverter wall-mounted units, cooling/heating

| Indoor units | | MSZ-LN18VG2 W | MSZ-LN25VG2 W | MSZ-LN35VG2 W | MSZ-LN50VG2 W | MSZ-LN60VG2 W |
|---|---|---|---|---|---|---|
| Outdoor units | | Multi Split MXZ | MUZ-LN25VG2 | MUZ-LN35VG2 | MUZ-LN50VG2 | MUZ-LN60VG |
| Cooling | Cooling capacity (kW) | 1.8 | 2.5 (1.0 – 3.5) | 3.5 (0.8 – 4.0) | 5.0 (1.0 – 6.0) | 6.1 (1.4 – 6.9) |
| | Power consumption (kW) | – | 0.485 | 0.82 | 1.38 | 1.79 |
| | SEER | – | 10.5 | 9.5 | 8.5 | 7.5 |
| | Energy efficiency class | – | A+++ | A+++ | A+++ | A++ |
| | Application range (°C) | – | –10~+46 | –10~+46 | –10~+46 | –10~+46 |
| Heating | Heating capacity (kW) | 3.3 | 3.2 (0.7 – 5.4) | 4.0 (0.9 – 6.3) | 6.0 (1.0 – 8.2) | 6.8 (1.8 – 9.3) |
| | Power consumption (kW) | – | 0.60 | 0.82 | 1.48 | 1.81 |
| | SCOP | – | 5.2 | 5.1 | 4.6 | 4.6 |
| | Energy efficiency class | – | A+++ | A+++ | A++ | A++ |
| | Application range (°C) | – | –15~+24 | –15~+24 | –15~+24 | –15~+24 |

| Indoor units | | MSZ-LN18VG2 W | MSZ-LN25VG2 W | MSZ-LN35VG2 W | MSZ-LN50VG2 W | MSZ-LN60VG2 W |
|---|---|---|---|---|---|---|
| Air volume (cooling mode) (m³/h) | L/H | 258/528 | 258/528 | 258/528 | 342/636 | 426/762 |
| Sound level (dB(A)) | L/H | 19/36 | 19/36 | 19/36 | 27/39 | 29/45 |
| Dimensions (mm)* | W/D/H | 890/233/307 | 890/233/307 | 890/233/307 | 890/233/307 | 890/233/307 |
| Weight (kg) | | 15.5 | 15.5 | 15.5 | 16.0 | 16.0 |
| Outdoor units | | Multi Split MXZ | MUZ-LN25VG2 | MUZ-LN35VG2 | MUZ-LN50VG2 | MUZ-LN60VG |
| Airflow (m³/h) | | – | 2058 | 2058 | 2400 | 3006 |
| Sound pressure level cooling/heating (dB(A)) | | – | 46/49 | 49/50 | 51/54 | 55/55 |
| Dimensions (mm) | W/D/H | – | 800/285/550 | 800/285/550 | 800/285/714 | 840/330/880 |
| Weight (kg) | | – | 33 | 34 | 40 | 55 |
| **Refrigeration data** | | | | | | |
| Total pipe length (m) | | – | 20 | 20 | 30 | 30 |
| Max. height difference (m) | | – | 12 | 12 | 15 | 15 |
| Refrigerant type/refrigerant quantity (kg)/max. quantity (kg) | | – | R32/0.80/1.00 | R32/0.85/1.05 | R32/1.25/1.55 | R32/1.45/1.91 |
| GWP/$CO_2$ equivalent (t)/$CO_2$ equivalent max. (t) | | | 675/0.54/0.68 | 675/0.54/0.68 | 675/0.84/1.04 | 675/0.98/1.3 |
| Refrigerant pre-filling for (m) | | – | 7 | 7 | 7 | 7 |
| Top-up quantity of refrigerant (g/m) | | – | 20 | 20 | 20 | 20 |
| Refrigerant pipe size Ø (mm) | fl. | – | 6 | 6 | 6 | 6 |
| | s. | – | 10 | 10 | 10 | 12 |
| **Electrical data** | | | | | | |
| Voltage supply (V, phase, Hz) | | – | 220 – 240, 1, 50 | 220 – 240, 1, 50 | 220 – 240.1, 50 | 220 – 240.1, 50 |
| Operating current (A) | Cooling | – | 2.5 | 3.9 | 6.3 | 7.9 |
| | Heating | – | 3.0 | 4.0 | 6.8 | 7.9 |
| Recommended cable cross-section - supply cable to outdoor unit (mm²) | | – | 3 x 1.5 | 3 x 1.5 | 3 x 2.5 | 3 x 2.5 |
| Recommended cable cross-section - indoor unit - outdoor unit (mm²) | | – | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 |
| Recommended breaker size (A) | | – | 10 | 10 | 16 | 16 |

\* An additional 100 mm of space below the unit must be included in planning to account for the blow-out plate fins and air flow.

Sound pressure level of the indoor unit measured 1 m in front of and 0.8 m below the unit in cooling mode
Energy efficiency class on a scale from A+++ to D

Our air conditioning equipment and heat pumps contain fluorinated greenhouse gases R410A, R134a, R32.
For further information please see the corresponding operation manual.

## Diamond wall-mounted units MSZ-LN

### Highlights

- SCOP up to 5.2 / SEER up to 10.5
- Energy efficiency class up to A+++/A+++
- Sound pressure level from 19 dB(A)
- Low refrigerant charge quantity (standard single split) 0.80 kg up to max. 1.91 kg

Ruby Red    Pearl White    Onyx Black

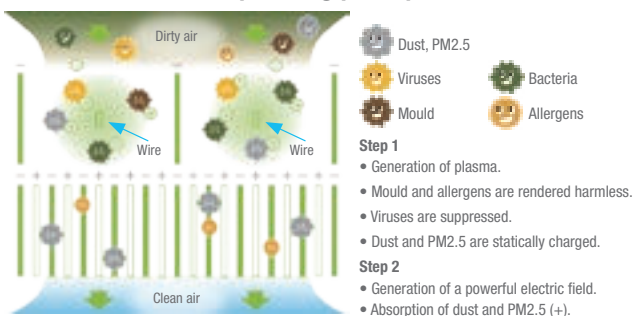The wall-mounted MSZ-LN with sophisticated hairline look not only features an extraordinarily eye-catching design, it also combines a host of innovative functions.

**3D i-see sensor**
- Energy efficiency thanks to person recognition in the room
- Extremely comfortable air distribution as a result of automatic airflow adjustment

**Filter**
- Air filter
- Plasma Quad Plus
- Plasma odour filter

**Odour neutralisation via plasma odour filter**
Featuring a surface area of approx. 300 m², the filter is particularly effective at eliminating odours from the room air.

**Double vane function**
- Two independently operating air outlet vanes ensure particularly efficient air distribution in the room

**MELCloud WiFi adapter**
- With integrated WiFi adapter as standard

**Range of colours with matching backlit remote controllers**

### Accessories

| Type designation | Description | Quantity |
|---|---|---|
| MAC-2390FT-E | Silver-ionized air purification filter | 10 |
| MAC-3010FT-E | Deodorizing filter (replacement filter) | 10 |
| MAC-286RH | Remote controller holder | 10 |

R32

| MUZ-LN25/35VG2 | MUZ-LN50VG2 | MUZ-LN60VG | MSZ-LN18−60VG2 V | MSZ-LN18−60VG2 B | MSZ-LN18−60VG2 R |

# Diamond wall-mounted units
## Split-inverter / Cooling and heating

| 3D i-see-Sensor | WiFi MELCloud | Wired Remote Control connectable (optional) | Econo Cool | Weekly | I SAVE | Silent | ON/OFF | Low-heating Set Point | Night | Horizontal Swing | Vertical Swing | Auto | Plasma-Quad-Plus | Odor Filter |

| Standard Filter | Silver Ion (optional) | Low-temperature Cooling | Low-temperature Heating | Auto Restart | Pre-charged | VRF LEV-Kit | Certified Quality | INVERTER | REUSE PIPING |

## MSZ-LN inverter wall-mounted units, cooling/heating

| Indoor units | | MSZ-LN18VG2 V/B/R | MSZ-LN25VG2 V/B/R | MSZ-LN35VG2 V/B/R | MSZ-LN50VG2 V/B/R | MSZ-LN60VG2 V/B/R |
|---|---|---|---|---|---|---|
| Outdoor units | | Multi Split MXZ | MUZ-LN25VG2 | MUZ-LN35VG2 | MUZ-LN50VG2 | MUZ-LN60VG |
| Cooling | Cooling capacity (kW) | 1.8 | 2.5 (1.0−3.5) | 3.5 (0.8−4.0) | 5.0 (1.0−6.0) | 6.1 (1.4−6.9) |
| | Power consumption (kW) | − | 0.485 | 0.82 | 1.38 | 1.79 |
| | SEER | − | 10.5 | 9.5 | 8.5 | 7.5 |
| | Energy efficiency class | − | A+++ | A+++ | A+++ | A++ |
| | Application range (°C) | − | −10~+46 | −10~+46 | −10~+46 | −10~+46 |
| Heating | Heating capacity (kW) | 3.3 | 3.2 (0.7−5.4) | 4.0 (0.9−6.3) | 6.0 (1.0−8.2) | 6.8 (1.8−9.3) |
| | Power consumption (kW) | − | 0.60 | 0.82 | 1.48 | 1.81 |
| | SCOP | − | 5.2 | 5.1 | 4.6 | 4.6 |
| | Energy efficiency class | − | A+++ | A+++ | A++ | A++ |
| | Application range (°C) | − | −15~+24 | −15~+24 | −15~+24 | −15~+24 |

| Indoor units | | MSZ-LN18VG2 V/B/R | MSZ-LN25VG2 V/B/R | MSZ-LN35VG2 V/B/R | MSZ-LN50VG2 V/B/R | MSZ-LN60VG2 V/B/R |
|---|---|---|---|---|---|---|
| Air volume (cooling mode) (m³/h) | L/H | 258/528 | 258/528 | 258/528 | 342/636 | 426/762 |
| Sound level (dB(A)) | L/H | 19/36 | 19/36 | 19/36 | 27/39 | 29/45 |
| Dimensions (mm)* | W/D/H | 890/233/307 | 890/233/307 | 890/233/307 | 890/233/307 | 890/233/307 |
| Weight (kg) | | 15.5 | 15.5 | 15.5 | 16.0 | 16.0 |
| Outdoor units | | Multi Split MXZ | MUZ-LN25VG2 | MUZ-LN35VG2 | MUZ-LN50VG2 | MUZ-LN60VG |
| Airflow (m³/h) | | − | 2058 | 2058 | 2400 | 3006 |
| Sound pressure level cooling/heating (dB(A)) | | − | 46/49 | 49/50 | 51/54 | 55/55 |
| Dimensions (mm) | W/D/H | − | 800/285/550 | 800/285/550 | 800/285/714 | 840/330/880 |
| Weight (kg) | | − | 33 | 34 | 40 | 55 |
| Refrigeration data | | | | | | |
| Total pipe length (m) | | − | 20 | 20 | 30 | 30 |
| Max. height difference (m) | | − | 12 | 12 | 15 | 15 |
| Refrigerant type / refrigerant quantity (kg) / max. quantity (kg) | | − | R32/0.80/1.00 | R32/0.85/1.05 | R32/1.25/1.55 | R32/1.45/1.91 |
| GWP/CO₂ equivalent (t)/CO₂ equivalent max. (t) | | | 675/0.54/0.68 | 675/0.54/0.68 | 675/0.84/1.04 | 675/0.98/1.3 |
| Refrigerant pre-filling for (m) | | − | 7 | 7 | 7 | 7 |
| Top-up quantity of refrigerant (g/m) | | − | 20 | 20 | 20 | 20 |
| Refrigerant pipe size Ø (mm) | fl. | − | 6 | 6 | 6 | 6 |
| | s. | − | 10 | 10 | 10 | 12 |
| Electrical data | | | | | | |
| Voltage supply (V, phase, Hz) | | 220−240, 1, 50 | 220−240, 1, 50 | 220−240, 1, 50 | 220−240.1, 50 | 220−240.1, 50 |
| Operating current (A) | Cooling | − | 2.5 | 3.9 | 6.3 | 7.9 |
| | Heating | − | 3.0 | 4.0 | 6.8 | 7.9 |
| Recommended cable cross-section - supply cable to outdoor unit (mm²) | | − | 3 x 1.5 | 3 x 1.5 | 3 x 2.5 | 3 x 2.5 |
| Recommended cable cross-section - indoor unit - outdoor unit (mm²) | | − | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 |
| Recommended breaker size (A) | | − | 10 | 10 | 16 | 16 |

\* An additional 100 mm of space below the unit must be included in planning to account for the blow-out plate fins and air flow.

Sound pressure level of the indoor unit measured 1 m in front of and 0.8 m below the unit in cooling mode
Energy efficiency class on a scale from A+++ to D

Our air conditioning equipment and heat pumps contain fluorinated greenhouse gases R410A, R134a, R32.
For further information please see the corresponding operation manual.

## Premium Design wall-mounted units MSZ-EF

### Highlights

- SCOP up to 4.7 / SEER up to 9.1
- Energy efficiency class up to A++/A+++
- Sound pressure level from 19 dB(A)
- Refrigerant filling quantity (standard single split) max. 1.51 kg

The MSZ-EF wall-mounted unit combines the ultimate in aesthetic standards with innovative air conditioning technology. It is suitable for almost any interior situation and is available in three colours (gloss white, gloss black and matt silver).

**Filter**
- Air filter with silver ion coating
- Silver ion air purification filter
- Plasma Quad Connect filter (optional)*

**i-save**
- Saves the preferred operating state

**MELCloud WiFi adapter**
- MELCloud WiFi adapter integrated as standard

**Infrared remote controller with weekly timer function and backlit display included in scope of supply**

\* With the Plasma Quad Connect filter, planning must include additional space above the wall-mounted unit (+ approx. 110 mm).

closed

open

### Accessories

| Type designation | Description | Quantity |
|---|---|---|
| MAC-2370FT | Silver-ionized air purification filter (replacement filter) | 10 |
| MAC-100FT-E | Plasma Quad Connect (available from May 2021) | 1 |
| MAC-1300RC | Remote controller holder | 15 |

| MUZ-EF25−42VG | MUZ-EF50VG | MSZ-EF18−50VGKW | MSZ-EF18−50VGKS | MSZ-EF18−50VGKB |
| --- | --- | --- | --- | --- |

**R32**

# Premium Design wall-mounted units
## Split-inverter / Cooling and heating



WiFi MELCloud · Wired Remote Control connectable (optional) · I SAVE · Silent · ON/OFF · Weekly · Econo Cool · Auto · Vertical Swing · Standard Filter Coated · Silver Ion · Plasma-Quad-Connect (optional)

VRF LEV-Kit · Low-temperature Cooling · Low-temperature Heating · Auto Restart · R 32 Pre-charged · Certified Quality · INVERTER · REUSE PIPING

## MSZ-EF inverter wall-mounted units, cooling / heating

| Indoor units | | MSZ-EF18VGK W / B / S | MSZ-EF25VGK W / B / S | MSZ-EF35VGK W / B / S | MSZ-EF42VGK W / B / S | MSZ-EF50VGK W / B / S |
| --- | --- | --- | --- | --- | --- | --- |
| Outdoor units | | Multi Split MXZ | MUZ-EF25VG | MUZ-EF35VG | MUZ-EF42VG | MUZ-EF50VG |
| Cooling | Cooling capacity (kW) | 1.8 | 2.5 (0.9−3.4) | 3.5 (1.1−4.0) | 4.2 (0.9−4.6) | 5.0 (1.4−5.4) |
| | Power consumption (kW) | – | 0.540 | 0.910 | 1.200 | 1.540 |
| | SEER | – | 9.1 | 8.8 | 7.9 | 7.5 |
| | Energy efficiency class | – | A+++ | A+++ | A++ | A++ |
| | Application range (°C) | – | −10~+46 | −10~+46 | −10~+46 | −10~+46 |
| Heating | Heating capacity (kW) | 3.3 | 3.2 (1.0−4.2) | 4.0 (1.3−5.1) | 5.4 (1.3−6.3) | 5.8 (1.4−7.5) |
| | Power consumption (kW) | – | 0.700 | 0.950 | 1.455 | 1.560 |
| | SCOP | – | 4.7 | 4.6 | 4.6 | 4.5 |
| | Energy efficiency class | – | A++ | A++ | A++ | A+ |
| | Application range (°C) | – | −15~+24 | −15~+24 | −15~+24 | −15~+24 |

| Indoor units | | MSZ-EF18VGK W / B / S | MSZ-EF25VGK W / B / S | MSZ-EF35VGK W / B / S | MSZ-EF42VGK W / B / S | MSZ-EF50VGK W / B / S |
| --- | --- | --- | --- | --- | --- | --- |
| Air volume (cooling mode) (m³/h) | L/H | 240 / 498 | 240 / 498 | 240 / 498 | 348 / 534 | 348 / 558 |
| Sound level (dB(A)) | L/H | 19 / 36 | 21 / 36 | 21 / 36 | 28 / 39 | 30 / 40 |
| Dimensions (mm) | W/D/H | 885 / 195 / 299 | 885 / 195 / 299 | 885 / 195 / 299 | 885 / 195 / 299 | 885 / 195 / 299 |
| Weight (kg) | | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 |
| Outdoor units | | Multi Split MXZ | MUZ-EF25VG | MUZ-EF35VG | MUZ-EF42VG | MUZ-EF50VG |
| Airflow (m³/h) | | – | 1668 | 2082 | 1920 | 2412 |
| Sound pressure level cooling / heating (dB(A)) | | – | 47 / 48 | 49 / 50 | 50 / 51 | 52 / 52 |
| Dimensions (mm)* | W/D/H | – | 800 / 285 / 550 | 800 / 285 / 550 | 800 / 285 / 550 | 800 / 285 / 714 |
| Weight (kg) | | – | 31 | 34 | 35 | 40 |
| **Refrigeration data** | | | | | | |
| Total pipe length (m) | | – | 20 | 20 | 20 | 30 |
| Max. height difference (m) | | – | 12 | 12 | 12 | 15 |
| Refrigerant type / refrigerant quantity (kg) / max. quantity (kg) | | – | R32 / 0.62 / 0.88 | R32 / 0.74 / 1.00 | R32 / 0.74 / 1.00 | R32 / 1.05 / 1.51 |
| GWP / $CO_2$ equivalent (t) / $CO_2$ equivalent max. (t) | | | 675 / 0.42 / 0.59 | 675 / 0.50 / 0.68 | 675 / 0.50 / 0.68 | 675 / 0.71 / 1.02 |
| Refrigerant pre-filling for (m) | | – | 7 | 7 | 7 | 7 |
| Top-up quantity of refrigerant (g/m) | | – | 20 | 20 | 20 | 30 |
| Refrigerant pipe size Ø (mm) | fl. | - | 6 | 6 | 6 | 6 |
| | s. | – | 10 | 10 | 10 | 10 |
| **Electrical data** | | | | | | |
| Voltage supply (V, phase, Hz) | | – | 220−240, 1, 50 | 220−240, 1, 50 | 220−240, 1, 50 | 220−240, 1, 50 |
| Operating current (A) | | – | 2.9 | 4.2 | 5.7 | 6.9 |
| Recommended cable cross-section - supply cable to outdoor unit (mm²) | | – | 3 x 1.5 | 3 x 1.5 | 3 x 1.5 | 3 x 2.5 |
| Recommended cable cross-section - indoor unit - outdoor unit (mm²) | | – | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 |
| Recommended breaker size (A) | | – | 10 | 10 | 12 | 16 |

\* An additional 14 mm of space below the unit must be included in planning to account for the blow-out plate fins and air flow.

Sound pressure level of the indoor unit measured 1 m in front of and 0.8 m below the unit in cooling mode
Energy efficiency class on a scale from A+++ to D

Our air conditioning equipment and heat pumps contain fluorinated greenhouse gases R410A, R134a, R32.
For further information please see the corresponding operation manual.

## Compact wall-mounted units MSZ-AP

This versatile allrounder is full of clever additional features and is effective over a wide performance range.
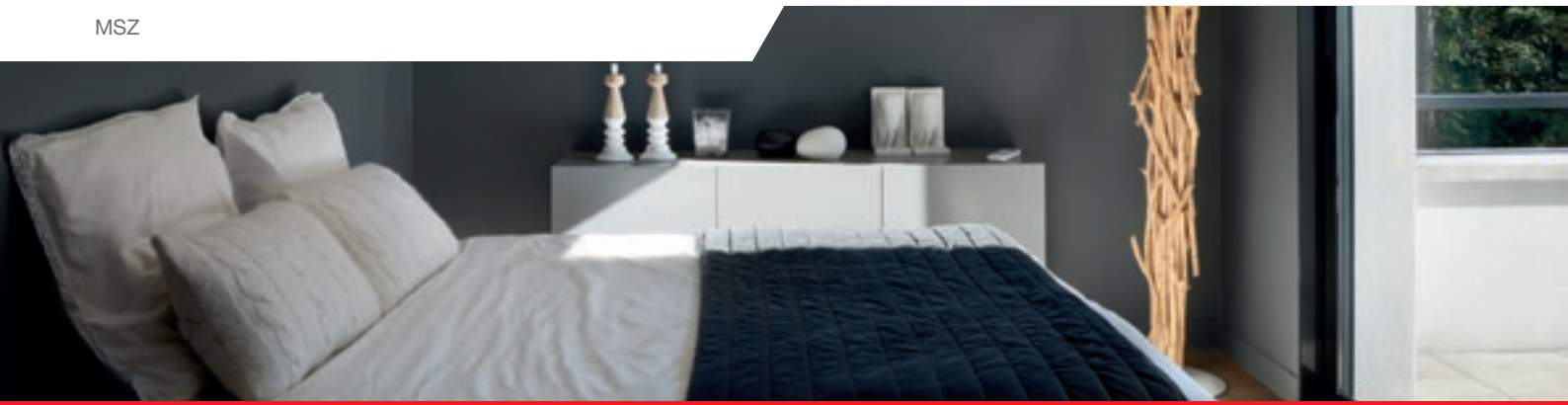
### Highlights

- SCOP up to 4.8 / SEER up to 8.6
- Energy efficiency class up to A+++ / A++
- Sound pressure level from 19 dB(A)
- Refrigerant filling quantity (standard single split) max. 1.26 kg
- Dimensions (W/D/H) 760 / 178 / 250 mm for MSZ-AP15 / 20VG

**Compact design**
- With the less powerful models AP15/20, the compact dimensions of the wall-mounted unit (just 760 mm x 250 mm x 178 mm) enable it to be installed inconspicuously and discreetly in even the smallest of rooms.

**Horizontal air discharge**
- Provides very comfortable air distribution, especially in cooling mode

**Night mode**
- The night mode comfort function automatically adjusts the sound pressure of the outdoor unit down -3dB (A). In addition, the LED on the indoor unit is dimmed and the remote controller mutes the beep tone during operation.

**Filter**
- Air purification filter with silver ion coating
- Silver ion air purification filter (optional)
- Plasma Quad Connect filter (optional)*

**i-save**
- Saves the preferred operating mode

**MELCloud WiFi adapter**
- Integrated as standard

**Infrared remote controller with weekly timer function included in scope of supply**

* With the Plasma Quad Connect filter, planning must include additional space above the wall-mounted unit (+ approx. 110 mm).

MSZ-AP15 / 20VG
178mm
250mm
760mm

MSZ-AP25 / 35 / 42 / 50VG
219mm
299mm
798mm

MSZ-AP60 / 71VG
257mm
325mm
1100mm

### Accessories

| Type designation | Description | Quantity |
|---|---|---|
| **MAC-2370FT** | Silver-ionized air purification filter* | 10 |
| **MAC-1300RC** | Remote controller holder | 15 |
| **MAC-100FT-E** | Plasma Quad Connect (available from May 2021) | 1 |

* Only available for MSZ-AP 25-50

| MUZ-AP20 – 42VG | MUZ-AP50VG | MSZ-AP15 / 20VGK | MSZ-AP25 – 50VGK |

R32

# Compact wall-mounted units
## Split-inverter / Cooling and heating
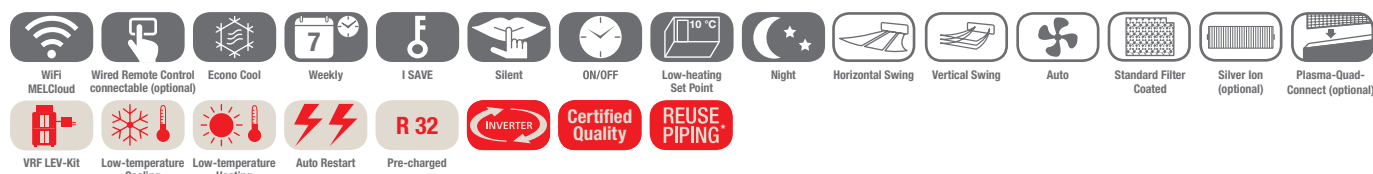
WiFi MELCloud | Wired Remote Control connectable (optional) | Econo Cool | Weekly | I SAVE | Silent | ON/OFF | Low-heating Set Point | Night | Horizontal Swing | Vertical Swing | Auto | Standard Filter Coated | Silver Ion (optional) | Plasma-Quad-Connect (optional)

VRF LEV-Kit | Low-temperature Cooling | Low-temperature Heating | Auto Restart | Pre-charged | R 32 | INVERTER | Certified Quality | REUSE PIPING*

## MSZ-AP inverter wall-mounted units, cooling / heating

| Indoor units | | MSZ-AP15VGK | MSZ-AP20VGK | MSZ-AP25VGK | MSZ-AP35VGK | MSZ-AP42VGK | MSZ-AP50VGK |
|---|---|---|---|---|---|---|---|
| Outdoor units | | Multi Split MXZ | MUZ-AP20VG | MUZ-AP25VG | MUZ-AP35VG | MUZ-AP42VG | MUZ-AP50VG |
| Cooling | Cooling capacity (kW) | 1.5 (0.8 – 2.1) | 2.0 (0.6 – 2.7) | 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 consumption (kW) | – | 0.46 | 0.60 | 0.99 | 1.30 | 1.55 |
| | SEER | – | 8.6 | 8.6 | 8.6 | 7.8 | 7.4 |
| | Energy efficiency class | – | A+++ | A+++ | A+++ | A++ | A++ |
| | Application range (°C) | – | −10~+46 | −10~+46 | −10~+46 | −10~+46 | −10~+46 |
| Heating | Heating capacity (kW) | 1.7 (0.9 – 2.4) | 2.5 (0.5 – 3.5) | 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 consumption (kW) | – | 0.60 | 0.78 | 1.03 | 1.49 | 1.60 |
| | SCOP | – | 4.2 | 4.8 | 4.7 | 4.7 | 4.7 |
| | Energy efficiency class | – | A+ | A++ | A++ | A++ | A++ |
| | Application range (°C) | – | −15~+24 | −15~+24 | −15~+24 | −15~+24 | −15~+24 |

| Indoor units | | MSZ-AP15VGK | MSZ-AP20VGK | MSZ-AP25VGK | MSZ-AP35VGK | MSZ-AP42VGK | MSZ-AP50VGK |
|---|---|---|---|---|---|---|---|
| Air volume (cooling mode) (m³/h) | L/H | 210 / 330 | 210 / 330 | 294 / 684 | 294 / 684 | 324 / 684 | 360 / 756 |
| Sound level (dB(A)) | L/H | 21 / 35 | 21 / 35 | 19 / 36 | 19 / 36 | 21 / 36 | 28 / 36 |
| Dimensions (mm) | W/D/H | 760 / 178 / 250 | 760 / 178 / 250 | 798 / 219 / 299 | 798 / 219 / 299 | 798 / 219 / 299 | 798 / 219 / 299 |
| Weight (kg) | | 8.2 | 8.2 | 10.5 | 10.5 | 10.5 | 10.5 |
| Outdoor units | | Multi Split MXZ | MUZ-AP20VG | MUZ-AP25VG | MUZ-AP35VG | MUZ-AP42VG | MUZ-AP50VG |
| Airflow (m³/h) | | – | 1932 | 1932 | 1932 | 1824 | 2430 |
| Sound pressure level cooling / heating (dB(A)) | | – | 47 / 48 | 47 / 48 | 49 / 50 | 50 / 51 | 52 / 52 |
| Dimensions (mm)* | W/D/H | – | 800 / 285 / 550 | 800 / 285 / 550 | 800 / 285 / 550 | 800 / 285 / 550 | 800 / 285 / 714 |
| Weight (kg) | | – | 31 | 31 | 31 | 35 | 40 |
| **Refrigeration data** | | | | | | | |
| Total pipe length (m) | | – | 20 | 20 | 20 | 20 | 20 |
| Max. height difference (m) | | – | 12 | 12 | 12 | 12 | 12 |
| Refrigerant type / refrigerant quantity (kg) / max. quantity (kg) | | – | R32 / 0.55 / 0.81 | R32 / 0.55 / 0.81 | R32 / 0.55 / 0.81 | R32 / 0.70 / 0.96 | R32 / 1.00 / 1.26 |
| GWP / $CO_2$ equivalent (t) / $CO_2$ equivalent max. (t) | | | 675 / 0.37 / 0.55 | 675 / 0.37 / 0.55 | 675 / 0.37 / 0.55 | 675 / 0.47 / 0.65 | 675 / 0.68 / 0.86 |
| Refrigerant pre-filling for (m) | | – | 7 | 7 | 7 | 7 | 7 |
| Top-up quantity of refrigerant (g / m) | | – | 20 | 20 | 20 | 20 | 20 |
| Refrigerant pipe size Ø (mm) | fl. | – | 6 | 6 | 6 | 6 | 6 |
| | s. | – | 10 | 10 | 10 | 10 | 10 |
| **Electrical data** | | | | | | | |
| Voltage supply (V, phase, Hz) | | – | 220 – 240, 1, 50 | 220 – 240, 1, 50 | 220 – 240, 1, 50 | 220 – 240, 1, 50 | 220 – 240, 1, 50 |
| Operating current cooling / heating (A) | | – | 2.6 / 3.2 | 3.2 / 3.9 | 4.9 / 4.7 | 6.0 / 7.0 | 7.4 / 7.6 |
| Recommended cable cross-section - supply cable to outdoor unit (mm²) | | – | 3 x 1.5 | 3 x 1.5 | 3 x 1.5 | 3 x 1.5 | 3 x 2.5 |
| Recommended cable cross-section - indoor unit - outdoor unit (mm²) | | – | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 |
| Recommended breaker size (A) | | – | 10 | 10 | 10 | 10 | 16 |

\* An additional 60 mm of space below the unit must be included in planning to account for the blow-out plate fins and air flow.

Sound pressure level measured 1 m in front of and 0.8 m below the unit in cooling mode
Energy efficiency class on a scale from A+++ to D

Our air conditioning equipment and heat pumps contain fluorinated greenhouse gases R410A, R134a, R32.
For further information please see the corresponding operation manual.
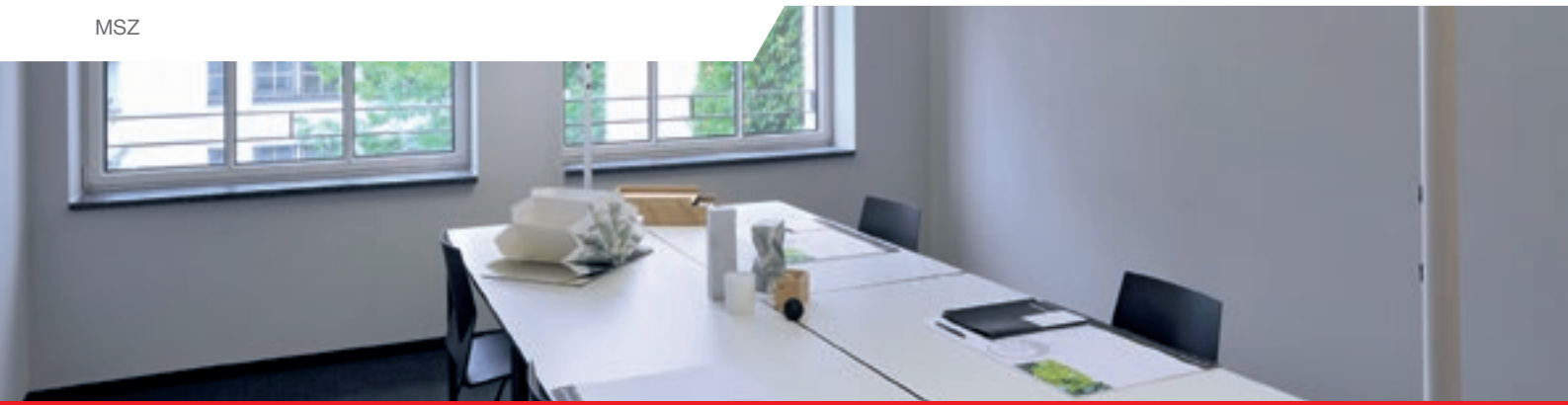
## Standard wall-mounted units MSZ-AP

### Highlights

- SCOP up to 4.4 / SEER up to 7.4
- Energy efficiency class up to A+ / A++
- Sound pressure level from 29 dB(A)
- Refrigerant filling quantity (standard single split) max. 1.71 kg

This versatile allrounder is full of clever additional features and is effective over a wide performance range.

**Ideal for large rooms**
- Particularly large range (up to 12 m)
- Adjustable vertical air discharge angle in 7 directions
- Maximum cooling capacity of 8.7 kW

**Filter**
- Air purification filter with silver ion coating
- Silver ion air purification filter (optional)
- Plasma Quad Connect filter (optional)*

**Horizontal air discharge**
- Provides very comfortable air distribution, especially in cooling mode

**i-save**
- Saves the preferred operating mode

**MELCloud WiFi adapter**
- MELCloud WiFi adapter integrated as standard

**Infrared remote controller with weekly timer function included in scope of supply**

\* With the Plasma Quad Connect filter, planning must include additional space above the wall-mounted unit (+ approx. 110 mm).

**Wide & Long Airflow**

12m
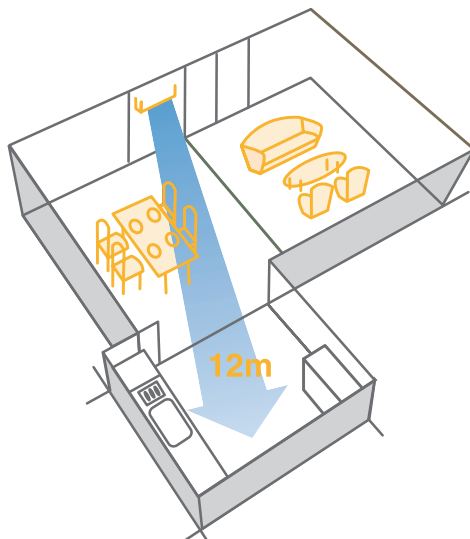
### Accessories

| Type designation | Description | Quantity |
|---|---|---|
| MAC-2360FT | Silver-ionized air purification filter | 10 |
| MAC-100FT-E | Plasma Quad Connect (available from May 2021) | 1 |
| MAC-1300RC | Remote controller holder | 15 |

MUZ-AP60 / 71VG

MSZ-AP60 / 71VGK

**R32**

## Standard wall-mounted units
### Split-inverter / Cooling and heating

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WiFi MELCloud | Wired Remote Control connectable (optional) | Econo Cool | Weekly | I SAVE | Silent | ON/OFF | Low-heating Set Point | Night | Horizontal Swing | Vertical Swing | Auto | Wide & Long | Standard Filter Coated | Silver Ion (optional) |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|
| Plasma-Quad-Connect (optional) | Low-temperature Cooling | Low-temperature Heating | Auto Restart | Pre-charged | Certified Quality | INVERTER | REUSE PIPING |
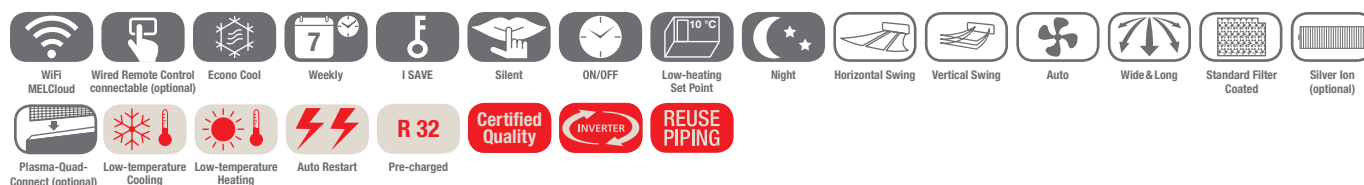
## MSZ-AP inverter wall-mounted units, cooling / heating

| Indoor units | | MSZ-AP60VGK | MSZ-AP71VGK |
|---|---|---|---|
| **Outdoor units** | | MUZ-AP60VG | MUZ-AP71VG |
| **Cooling** | Cooling capacity (kW) | 6.1 (1.4 − 7.3) | 7.1 (2.0 − 8.7) |
| | Power consumption (kW) | 1.59 | 2.01 |
| | SEER | 7.4 | 7.2 |
| | Energy efficiency class | A++ | A++ |
| | Application range (°C) | −10~+46 | −10~+46 |
| **Heating** | Heating capacity (kW) | 6.8 (2.0 − 8.6) | 8.1 (2.2 − 10.3) |
| | Power consumption (kW) | 1.67 | 2.12 |
| | SCOP | 4.6 | 4.4 |
| | Energy efficiency class | A++ | A+ |
| | Application range (°C) | −15~+24 | −15~+24 |

| Indoor units | | MSZ-AP60VGK | MSZ-AP71VGK |
|---|---|---|---|
| Air volume (cooling mode) (m³ / h) | L / H | 564 / 1134 | 576 / 1116 |
| Sound level (dB(A)) | L / H | 29 / 48 | 30 / 49 |
| Dimensions (mm) | W / D / H | 1.100 / 257 / 325 | 1.100 / 257 / 325 |
| Weight (kg) | | 16 | 17 |
| **Outdoor units** | | MUZ-AP60VG | MUZ-AP71VG |
| Airflow (m³ / h) | | 3126 | 3246 |
| Sound pressure level cooling / heating (dB(A)) | | 56 / 57 | 56 / 55 |
| Dimensions (mm)* | W / D / H | 800 / 285 / 714 | 840 / 330 / 880 |
| Weight (kg) | | 40 | 55 |
| **Refrigeration data** | | | |
| Total pipe length (m) | | 30 | 30 |
| Max. height difference (m) | | 15 | 15 |
| Refrigerant type / refrigerant quantity (kg) / max. quantity (kg) | | R32 / 1.05 / 1.35 | R32 / 1.5 / 1.71 |
| GWP / $CO_2$ equivalent (t) / $CO_2$ equivalent max. (t) | | 675 / 0.71 / 0.92 | 675 / 1.02 / 1.22 |
| Refrigerant pre-filling for (m) | | 15 | 15 |
| Top-up quantity of refrigerant (g / m) | | 20 | 20 |
| Refrigerant pipe size Ø (mm) | fl. | 6 | 6 |
| | s. | 12 | 12 |
| **Electrical data** | | | |
| Voltage supply (V, phase, Hz) | | 220 − 240, 1, 50 | 220 − 240, 1, 50 |
| Operating current (A) | | 7.1 | 8.8 |
| Recommended cable cross-section - supply cable to outdoor unit (mm²) | | 3 x 2.5 | 3 x 2.5 |
| Recommended cable cross-section - indoor unit - outdoor unit (mm²) | | 4 x 1.5 | 4 x 1.5 |
| Recommended breaker size (A) | | 16 | 20 |

\* An additional 12 mm of space below the unit must be included in planning to account for the blow-out plate fins and air flow.

Sound pressure level of the indoor unit measured 1 m in front of and 0.8 m below the unit in cooling mode
Energy efficiency class on a scale from A+++ to D

Our air conditioning equipment and heat pumps contain fluorinated greenhouse gases R410A, R134a, R32.
For further information please see the corresponding operation manual.

## Floor-standing unit MFZ-KT

- SCOP up to 4.4 / SEER up to 6.8
- Energy efficiency class up to A+ / A++
- Sound pressure level from 19 dB(A)
- Refrigerant filling quantity (standard single split) max. 1.71 kg

**Multiflow vane funktion**

With the multiflow vane function, the air flow through two newly designed blow-out plate fins can conveniently be adjusted in line with the needs of the individual user.

Heating mode            Cooling mode

The MFZ-KT floor-standing unit is particularly suitable for applications in which both cooling and heating modes are regularly used. Can be installed like a radiator near the floor.

**Multiflow vane function**
- Simultaneous distribution of the air upwards and downwards in heating mode to ensure ideal air circulation in the room and rapid heating of the room.
- In cooling mode, the air is discharged solely upwards in order to achieve the best possible efficiency.

**Air filter**
- Air purification filter with silver ion coating
- Silver ion air purification filter

**Flexible installation**
- Three possible installation types: standing, mounted, wall-hanging

**i-save**
- Saves the preferred operating state

**Refrigerant detector**
- integrated refrigerant detector to ensure early detection of possible leaksn

**Infrared remote controller with weekly timer function included in scope of supply**

**MELCloud Wi-Fi adapter (optional)**

Accessories

| Type designation | Description | Quantity |
|---|---|---|
| MAC-2370FT | Silver-ionized air purification filter (replacement filter) | 10 |
| MAC-567IF-E | MELCloud Wi-Fi adapter | 1 |

**R32**

| SUZ-M25 / 35VA | SUZ-M50VA | SUZ-M60VA | MFZ-KT25−60VG |

# Compact floor-standing units
## Split-inverter / Cooling and heating

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| WiFi MELCloud (optional) | Wired Remote Control connectable (optional) | Econo Cool | Weekly | I SAVE | Silent | ON/OFF | Vertical Swing | Auto | Standard Filter Coated | Silver Ion |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Low-temperature Cooling | Low-temperature Heating | VRF LEV-Kit | Auto Restart | R 32 Pre-charged | Certified Quality | INVERTER | REUSE PIPING |

## MFZ-KT inverter floor-standing units, cooling / heating

| Indoor units | | MFZ-KT25VG | MFZ-KT35VG | MFZ-KT50VG | MFZ-KT60VG |
|---|---|---|---|---|---|
| Outdoor units | | SUZ-M25VA* | SUZ-M35VA* | SUZ-M50VA* | SUZ-M60VA* |
| Cooling | Cooling capacity (kW) | 2.5 (1.6−3.2) | 3.5 (0.9−3.9) | 5.0 (1.2−5.6) | 6.1 (1.7−6.3) |
| | Power consumption (kW) | 0.62 | 1.06 | 1.55 | 1.84 |
| | SEER | 6.5 | 6.6 | 6.8 | 6.2 |
| | Energy efficiency class | A++ | A++ | A++ | A++ |
| | Application range (°C) | −10~+46 | −10~+46 | −15~+46 | −15~+46 |
| Heating | Heating capacity (kW) | 3.4 (1.3−4.2) | 4.3 (1.1−5.0) | 6.0 (1.5−7.2) | 7.0 (1.6−8.0) |
| | Power consumption (kW) | 0.91 | 1.26 | 1.86 | 2.18 |
| | SCOP | 4.2 | 4.4 | 4.2 | 4.1 |
| | Energy efficiency class | A+ | A+ | A+ | A+ |
| | Application range (°C) | −10~+24 | −10~+24 | −10~+24 | −10~+24 |

| Indoor units | | | MFZ-KT25VG | MFZ-KT35VG | MFZ-KT50VG | MFZ-KT60VG |
|---|---|---|---|---|---|---|
| Air volume (cooling mode) (m³/h) | L/H | | 234/468 | 234/468 | 336/624 | 336/738 |
| Sound pressure level cooling/heating (dB(A)) | low | | 19/19 | 19/19 | 28/29 | 28/29 |
| | high | | 37/37 | 37/37 | 42/44 | 46/47 |
| Dimensions (mm) | W/D/H | | 750/215/600 | 750/215/600 | 750/215/600 | 750/215/600 |
| Weight (kg) | | | 14.5 | 14.5 | 14.5 | 15 |
| Outdoor units | | | SUZ-M25VA | SUZ-M35VA | SUZ-M50VA | SUZ-M60VA |
| Airflow cooling/heating (m³/h) | | | 2178/2076 | 2058/1962 | 2748/2622 | 3006/3006 |
| Sound pressure level cooling/heating (dB(A)) | | | 45/46 | 48/48 | 48/49 | 49/51 |
| Dimensions (mm) | W/D/H | | 800/285/550 | 800/285/550 | 800/285/714 | 840/330/880 |
| Weight (kg) | | | 30 | 35 | 41 | 54 |
| Refrigeration data | | | | | | |
| Total pipe length (m) | | | 20 | 20 | 30 | 30 |
| Max. height difference (m) | | | 12 | 12 | 30 | 30 |
| Refrigerant type/refrigerant quantity (kg)/max. quantity (kg) | | | R32/0.65/0.91 | R32/0.90/1.16 | R32/1.20/1.66 | R32/1.25/1.71 |
| GWP/$CO_2$ equivalent (t)/$CO_2$ equivalent max. (t) | | | 675/0.44/0.61 | 675/0.61/0.78 | 675/0.81/1.12 | 675/0.84/1.15 |
| Refrigerant pre-filling for (m) | | | 7 | 7 | 7 | 7 |
| Top-up quantity of refrigerant (g/m) | | | 20 | 20 | 20 | 20 |
| Refrigerant pipe size Ø (mm) | fl. | | 6 | 6 | 6 | 6 |
| | s. | | 10 | 10 | 12 | 16 |
| Electrical data | | | | | | |
| Voltage supply (V, phase, Hz) | | | 220−240, 1, 50 | 220−240, 1, 50 | 220−240, 1, 50 | 220−240, 1, 50 |
| Operating current (A) | | | 3.5 | 4.9 | 5.58 | 9.0 |
| Recommended cable cross-section - supply cable to outdoor unit (mm²) | | | 3 x 1.5 | 3 x 1.5 | 3 x 2.5 | 3 x 2.5 |
| Recommended cable cross-section - indoor unit - outdoor unit (mm²) | | | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 |
| Recommended breaker size (A) | | | 10 | 10 | 16 | 16 |

\* Note: Only SUZ-M25/35/50/60VA-R1 outdoor units are compatible.

Sound pressure level of the indoor unit measured at a height of 1 m and 1 m in front of the unit

Energy efficiency class on a scale from A+++ to D

Our air conditioning equipment and heat pumps contain fluorinated greenhouse gases R410A, R134a, R32.
For further information please see the corresponding operation manual.

## 1-way ceiling cassettes MLZ-KP

### Highlights

- SCOP up to 4.6 / SEER up to 7.0
- Energy efficiency class up to A+ / A++
- Sound pressure level from 27 dB(A)
- Refrigerant filling quantity (standard single split) max. 1.66 kg
- Installation height 185 mm

**Compact design and low installation height**
Due to its compact design, the device fits perfectly into a recessed ceiling where space is limited.

185 mm

Even with extremely low recessed ceilings there is still enough space for the MLZ-KP one-way ceiling cassette.

**Integrated condensate pump**
- The unit is fitted as standard with a high-grade condensate pump with a head of 50 cm

**Rapid installation thanks to compact size and low weight**

**Air filter**
- Air purification filter
- Silver ion air purification filter (optional)

**Infrared remote controller with weekly timer function included in scope of supply**

**Optional connection to cable remote controller**

**MELCloud Wi-Fi adapter (optional)**

### Accessories

| Type designation | Description | Quantity |
|---|---|---|
| PAR-40MAA* | Wired remote control Deluxe | 1 |
| PAC-YT52CRA* | Wired remote control compact | 1 |
| MAC-2370FT | Silver-ionized air purification filter | 10 |
| MAC-567IF-E | MELCloud Wi-Fi adapter | 1 |

\*  MAC-397IF-E required (see accessory page at end of chapter)

R32

| SUZ-M25/35VA | SUZ-M50VA | | MLZ-KP25–50VF |

# 1-way ceiling cassettes
## Split-inverter / Cooling and heating

| WiFi MELCloud (optional) | Wired Remote Control connectable (optional) | Econo Cool | Weekly | On/Off | Low-heating Set Point | Horizontal Swing | Vertical Swing | Auto | Standard Filter Coated | Silver Ion (optional) |

| Low-temperature Cooling | Low-temperature Heating | Drain Lift Up | Auto Restart | R 32 Pre-charged | Certified Quality | INVERTER | REUSE PIPING |

## MLZ-KP ceiling cassettes, cooling / heating

| Indoor units | | MLZ-KP25VF | MLZ-KP35VF | MLZ-KP50VF |
|---|---|---|---|---|
| Grille | | MLP-444W | MLP-444W | MLP-444W |
| Outdoor units | | SUZ-M25VA | SUZ-M35VA | SUZ-M50VA |
| Cooling | Cooling capacity (kW) | 2.5 (1.4 – 3.2) | 3.5 (0.8 – 3.9) | 5.0 (1.7 – 5.6) |
| | Power consumption (kW) | 0.59 | 0.97 | 1.38 |
| | EER | 4.20 | 3.70 | 3.60 |
| | SEER | 6.2 | 7.0 | 6.7 |
| | Energy efficiency class | A++ | A++ | A++ |
| | Application range (°C) | −10~+46 | −10~+46 | −15~+46 |
| Heating | Heating capacity (kW) | 3.2 (1.4 – 4.2) | 4.1 (1.1 – 4.9) | 6.0 (1.7 – 7.2) |
| | Power consumption (kW) | 0.80 | 1.10 | 1.86 |
| | COP | 4.00 | 3.71 | 3.21 |
| | SCOP | 4.4 | 4.6 | 4.3 |
| | Energy efficiency class | A+ | A++ | A+ |
| | Application range (°C) | −10~+24 | −10~+24 | −10~+24 |

| Indoor units | | MLZ-KP25VF | MLZ-KP35VF | MLZ-KP50VF |
|---|---|---|---|---|
| Air volume (cooling mode) (m³/h) | L / H | 360 / 528 | 360 / 564 | 360 / 684 |
| Sound level (dB(A)) | L / H | 27 / 38 | 27 / 40 | 29 / 47 |
| Dimensions (mm)* | W / D / H | 1.102 / 360 / 185 | 1.102 / 360 / 185 | 1.102 / 360 / 185 |
| Dimensions (grille) (mm)** | W / D / H | 1.200 / 424 / 24 | 1.200 / 424 / 24 | 1.200 / 424 / 24 |
| Weight (incl. grille) (kg) | | 15.5 (19.0) | 15.5 (19.0) | 15.5 (19.0) |
| Outdoor units | | SUZ-M25VA | SUZ-M35VA | SUZ-M50VA |
| Airflow cooling / heating (m³/h) | | 2178 / 2076 | 2058 / 1962 | 2748 / 2622 |
| Sound pressure level cooling / heating (dB(A)) | | 45 / 46 | 48 / 48 | 48 / 49 |
| Dimensions (mm) | W / D / H | 800 / 285 / 550 | 800 / 285 / 550 | 800 / 285 / 714 |
| Weight (kg) | | 30 | 35 | 41 |
| Refrigeration data | | | | |
| Total pipe length (m) | | 20 | 20 | 30 |
| Max. height difference (m) | | 12 | 12 | 30 |
| Refrigerant type / refrigerant quantity (kg) / max. quantity (kg) | | R32 / 0.65 / 0.91 | R32 / 0.90 / 1.16 | R32 / 1.20 / 1.66 |
| GWP / $CO_2$ equivalent (t) / $CO_2$ equivalent max. (t) | | 675 / 0.44 / 0.61 | 675 / 0.61 / 0.78 | 675 / 0.81 / 1.12 |
| Refrigerant pre-filling for (m) | | 7 | 7 | 7 |
| Top-up quantity of refrigerant (g / m) | | 20 | 20 | 20 |
| Refrigerant pipe size Ø (mm) | fl. | 6 | 6 | 6 |
| | s. | 10 | 10 | 12 |
| Electrical data | | | | |
| Voltage supply (V, phase, Hz) | | 230, 1, 50 | 230, 1, 50 | 230, 1, 50 |
| Operating current (A) | | 3.5 | 4.9 | 5.58 |
| Recommended breaker size (A) | | 10 | 10 | 20 |

\* Required installation height  
\*\* Visible height of grille

Sound pressure level of the indoor unit measured centrically at a distance of 1.5 m below the unit in cooling mode

Our air conditioning equipment and heat pumps contain fluorinated greenhouse gases R410A, R134a, R32. For further information please see the corresponding operation manual.

## 4-way ceiling cassettes SLZ-M

### Highlights

- SCOP up to 4.3 / SEER up to 6.7
- Energy efficiency class up to A++/A+
- Sound pressure level from 24 dB(A)
- Refrigerant filling quantity (standard single split) max. 1.71 kg
- Installation height 245 mm

The SLZ-M series of ceiling cassettes offer smart air conditioning systems for suspended ceilings with European grid dimensions.
The intelligent SLZ-M 4-way ceiling cassettes achieve high standards of individual comfort and impressive energy saving targets.

**Horizontal airflow**
- Six different discharge angles

**3D i-see sensor (optional)**
- Automatic air discharge on person recognition
- Energy efficiency thanks to presence detection

**Easy installation**
- Thanks to a special mounting system, the installation of the panel can be carried out by a single person

**Air filter**
- Air purification filter

**Optionally available with wired or infrared remote controller**

**Fresh air connection possible**

**MELCloud Wi-Fi adapter (optional)**

**Integrated condensate pump**
- The unit is fitted as standard with a high-grade condensate pump featuring a delivery head of up to 85 cm

3D i-see sensor

Fully crowded room
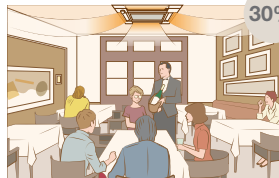
Partly crowded room

30%
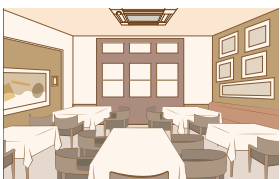
Empty room

### Accessories

| Type designation | Description | Quantity |
|---|---|---|
| PAC-YT-52CRA | Wired remote control compact | 1 |
| PAR-40MAA | Wired remote control Deluxe | 1 |
| PAC-SF1ME-E | 3D i-see sensor | 1 |
| SLP-2FA | Panel for wired remote controller | 1 |
| MAC-567IF-E | MELCloud Wi-Fi adapter | 1 |

| SUZ-M25 / 35VA | SUZ-M50VA | SUZ-M60VA | PAR-SL100A-E | SLZ-M15 – 60FA |

R32

# 4-way ceiling cassettes
## Split inverters / European ceiling grid dimensions / Cooling and heating

| 3D i-see-Sensor (optional) | WiFi MELCloud (optional) | Wired Remote Control connectable | On/Off | Weekly | Vertical Swing | AUTO | Standard Filter |

| Low-temperature Cooling | Low-temperature Heating | Fresh-air intake | Drain Lift Up | Auto Restart | R 32 Pre-charged | Certified Quality | INVERTER | REUSE PIPING |

## SLZ-M ceiling cassettes, cooling / heating

| Indoor units | | SLZ-M15FA | SLZ-M25FA | SLZ-M35FA | SLZ-M50FA | SLZ-M60FA |
|---|---|---|---|---|---|---|
| Panel including IR remote control | | SLP-2FALM | SLP-2FALM | SLP-2FALM | SLP-2FALM | SLP-2FALM |
| Outdoor units | | R32 MXZ | SUZ-M25VA | SUZ-M35VA | SUZ-M50VA | SUZ-M60VA |
| Cooling | Cooling capacity (kW) | 1.5 | 2.5 (1.4 – 3.2) | 3.5 (0.7 – 3.9) | 4.6 (1.0 – 5.2) | 5.7 (1.5 – 6.3) |
| | Power consumption (kW) | – | 0.65 | 1.09 | 1.35 | 1.67 |
| | SEER | – | 6.3 | 6.7 | 6.3 | 6.2 |
| | Energy efficiency class | – | A++ | A++ | A++ | A++ |
| | Application range (°C) | – | −10~+46 | −10~+46 | −15~+46 | −15~+46 |
| Heating | Heating capacity (kW) | 1.7 | 3.2 (1.3 – 4.2) | 4.0 (1.0 – 5.0) | 5.0 (1.3 – 5.5) | 6.4 (1.6 – 7.3) |
| | Power consumption (kW) | – | 0.88 | 1.07 | 1.56 | 2.13 |
| | SCOP | – | 4.3 | 4.3 | 4.2 | 4.1 |
| | Energy efficiency class | – | A+ | A+ | A+ | A+ |
| | Application range (°C) | – | −10~+24 | −10~+24 | −10~+24 | −10~+24 |

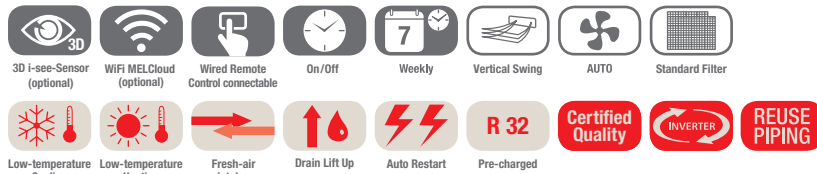| Indoor units | | SLZ-M15FA | SLZ-M25FA | SLZ-M35FA | SLZ-M50FA | SLZ-M60FA |
|---|---|---|---|---|---|---|
| Air volume (cooling mode) (m³/h) | L/H | 360 / 420 | 360 / 420 | 390 / 510 | 390 / 570 | 420 / 690 |
| Sound level (dB(A)) | L/H | 24 / 28 | 25 / 31 | 25 / 34 | 27 / 39 | 32 / 43 |
| Dimensions (mm)* | W/D/H | 570 / 570 / 245 | 570 / 570 / 245 | 570 / 570 / 245 | 570 / 570 / 245 | 570 / 570 / 245 |
| Dimensions (grille) (mm)** | W/D/H | 625 / 625 / 10 | 625 / 625 / 10 | 625 / 625 / 10 | 625 / 625 / 10 | 625 / 625 / 10 |
| Weight (incl. grille) (kg) | | 15.0 (18.0) | 15.0 (18.0) | 15.0 (18.0) | 15.0 (18.0) | 15.0 (18.0) |
| Outdoor units | | R32 MXZ | SUZ-M25VA | SUZ-M35VA | SUZ-M50VA | SUZ-M60VA |
| Airflow cooling / heating (m³/h) | | – | 2178 / 2076 | 2058 / 1962 | 2748 / 2622 | 3006 / 3006 |
| Sound pressure level cooling / heating (dB(A)) | | – | 45 / 46 | 48 / 48 | 48 / 49 | 49 / 51 |
| Dimensions (mm) | W/D/H | – | 800 / 285 / 550 | 800 / 285 / 550 | 800 / 285 / 714 | 840 / 330 / 880 |
| Weight (kg) | | – | 30 | 35 | 41 | 54 |
| Refrigeration data | | | | | | |
| Total pipe length (m) | | – | 20 | 20 | 30 | 30 |
| Max. height difference (m) | | – | 12 | 12 | 30 | 30 |
| Refrigerant type / refrigerant quantity (kg) / max. quantity (kg) | | – | R32 / 0.65 / 0.91 | R32 / 0.90 / 1.16 | R32 / 1.20 / 1.66 | R32 / 1.25 / 1.71 |
| GWP / CO$_2$ equivalent (t) / CO$_2$ equivalent max. (t) | | | 675 / 0.44 / 0.61 | 675 / 0.61 / 0.78 | 675 / 0.81 / 1.12 | 675 / 0.84 / 1.15 |
| Refrigerant pre-filling for (m) | | – | 7 | 7 | 7 | 7 |
| Top-up quantity of refrigerant (g/m) | | – | 20 | 20 | 20 | 20 |
| Refrigerant pipe size Ø (mm) | fl. | 6 | 6 | 6 | 6 | 6 |
| | s. | 10 | 10 | 10 | 12 | 16 |
| Electrical data | | | | | | |
| Voltage supply (V, phase, Hz) | | 220 – 240, 1, 50 | 220 – 240, 1, 50 | 220 – 240, 1, 50 | 220 – 240, 1, 50 | 220 – 240, 1, 50 |
| Operating current (A) | | – | 3.5 | 4.9 | 5.58 | 9.0 |
| Recommended cable cross-section - supply cable to outdoor unit (mm²) | | – | 3 x 1.5 | 3 x 1.5 | 3 x 2.5 | 3 x 2.5 |
| Recommended cable cross-section - indoor unit - outdoor unit (mm²) | | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 |
| Recommended breaker size (A) | | – | 10 | 10 | 20 | 20 |

\* Required installation height
\*\* Visible height of grille

Sound pressure level of the indoor unit measured centrically at a distance of 1.5 m below the unit in cooling mode
Energy efficiency class on a scale from A+++ to D

Our air conditioning equipment and heat pumps contain fluorinated greenhouse gases R410A, R134a, R32.
For further information please see the corresponding operation manual.

## Ceiling concealed ducted units SEZ-M

### Highlights

- SCOP up to 4.2 / SEER up to 6.0
- Energy efficiency class up to A+ / A+
- Sound pressure level from 22 dB(A)
- Refrigerant filling quantity (standard single split) max. 2.37 kg
- External static pressure 5–50 Pa
- Installation height 200 mm

**Low installation height**

200 mm

Where air conditioning units should neither be seen nor heard, SEZ-M duct mounted units do their job almost silently and invisibly. The units can be installed in the false ceiling and transport the conditioned air into the room via air apertures and ducts.

**External static pressure**
- Up to 50 Pa
- Choice of four external static pressures: 5–15–35–50 Pa

**Easy to integrate in low ceilings**
- Low installation height of just 200 mm

**Condensate pump (optional)**
- Delivery head up to 55 cm

**Three blowing speeds**
- Low / Medium / High

**Optionally available with wired or infrared remote controller**

**Air filter**
- Standard air filter included in scope of supply
- Plasma Quad Connect filter (optional)

**MELCloud Wi-Fi adapter (optional)**

Accessories

| Type designation | Description | Quantity |
|---|---|---|
| PAR-40MAA | Wired remote control Deluxe | 1 |
| PAC-YT52CRA | Wired remote control compact | 1 |
| PAR-SA9CA-E | Infrared remote control (receiver) | 1 |
| PAR-SL97A-E | Infrared remote control (transmitter) | 1 |
| PAC-KE07DM-E | Drain pump | 1 |
| MAC-567IF-E | MELCloud Wi-Fi adapter | 1 |
| MAC-100FT-E* | Plasma Quad Connect (available from May 2021) | 1 |

\*   Additional installation kit required. Please submit a request (available as of July 2021).
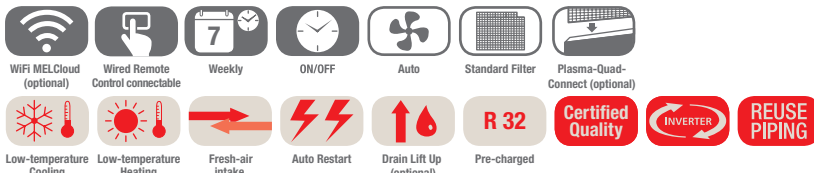
| SUZ-M25 / 35VA | SUZ-M50VA | SUZ-M60 / 71VA | SEZ-M25 – 71DA |

**R32**

# Ceiling concealed ducted units
## Split-inverter / Cooling and heating

WiFi MELCloud (optional) | Wired Remote Control connectable | 7 Weekly | ON/OFF | Auto | Standard Filter | Plasma-Quad-Connect (optional)

Low-temperature Cooling | Low-temperature Heating | Fresh-air intake | Auto Restart | Drain Lift Up (optional) | R 32 Pre-charged | Certified Quality | INVERTER | REUSE PIPING

## SEZ-M ducted units, cooling / heating, no remote control included

| Indoor units | | SEZ-M25DA | SEZ-M35DA | SEZ-M50DA | SEZ-M60DA | SEZ-M71DA |
|---|---|---|---|---|---|---|
| **Outdoor units** | | SUZ-M25VA | SUZ-M35VA | SUZ-M50VA | SUZ-M60VA | SUZ-M71VA |
| **Cooling** | Cooling capacity (kW) | 2.5 (1.4 – 3.2) | 3.5 (0.7 – 3.9) | 5.0 (1.1 – 5.6) | 6.1 (1.6 – 6.3) | 7.1 (2.2 – 8.1) |
| | Power consumption (kW) | 0.71 | 1.00 | 1.54 | 1.84 | 2.15 |
| | SEER | 5.3 | 5.9 | 6.0 | 5.5 | 5.5 |
| | Energy efficiency class | A | A+ | A+ | A | A |
| | Application range (°C) | −10~+46 | −10~+46 | −15~+46 | −15~+46 | −15~+46 |
| **Heating** | Heating capacity (kW) | 2.9 (1.3 – 4.2) | 4.2 (1.1 – 5.0) | 6.0 (1.5 – 7.2) | 7.4 (1.6 – 8.0) | 8.0 (2.0 – 10.2) |
| | Power consumption (kW) | 0.80 | 1.07 | 1.61 | 2.04 | 2.28 |
| | SCOP | 3.8 | 4.1 | 4.0 | 4.2 | 3.9 |
| | Energy efficiency class | A | A+ | A+ | A+ | A |
| | Application range (°C) | −10~+24 | −10~+24 | −10~+24 | −10~+24 | −10~+24 |

| Indoor units | | SEZ-M25DA | SEZ-M35DA | SEZ-M50DA | SEZ-M60DA | SEZ-M71DA |
|---|---|---|---|---|---|---|
| Air flow in cooling mode (m³ / h) | L / M / H | 360 / 420 / 540 | 420 / 540 / 660 | 600 / 780 / 900 | 720 / 900 / 1080 | 720 / 960 / 1200 |
| Static pressure (Pa) | | 5 - 50 | 5 - 50 | 5 - 50 | 5 - 50 | 5 - 50 |
| Sound level (dB(A)) | L / M / H | 22 / 25 / 29 | 23 / 28 / 33 | 29 / 33 / 36 | 29 / 33 / 37 | 29 / 34 / 39 |
| Dimensions (mm) | W / D / H | 790 / 700 / 200 | 990 / 700 / 200 | 990 / 700 / 200 | 1.190 / 700 / 200 | 1.190 / 700 / 200 |
| Weight (kg) | | 18.0 | 21.0 | 23.0 | 27.0 | 27.0 |
| **Outdoor units** | | SUZ-M25VA | SUZ-M35VA | SUZ-M50VA | SUZ-M60VA | SUZ-M71VA |
| Airflow cooling / heating (m³ / h) | | 2178 / 2076 | 2058 / 1962 | 2748 / 2622 | 3006 / 3006 | 3006 / 3006 |
| Sound pressure level cooling / heating (dB(A)) | | 45 / 46 | 48 / 48 | 48 / 49 | 49 / 51 | 49 / 51 |
| Dimensions (mm) | W / D / H | 800 / 285 / 550 | 800 / 285 / 550 | 800 / 285 / 714 | 840 / 330 / 880 | 840 / 330 / 880 |
| Weight (kg) | | 30 | 35 | 41 | 54 | 55 |
| **Refrigeration data** | | | | | | |
| Total pipe length (m) | | 20 | 20 | 30 | 30 | 30 |
| Max. height difference (m) | | 12 | 12 | 30 | 30 | 30 |
| Refrigerant type / refrigerant quantity (kg) / max. quantity (kg) | | R32 / 0.65 / 0.91 | R32 / 0.90 / 1.16 | R32 / 1.20 / 1.66 | R32 / 1.25 / 1.71 | R32 / 1.45 / 2.37 |
| GWP / CO₂ equivalent (t) / CO₂ equivalent max. (t) | | 675 / 0.44 / 0.61 | 675 / 0.61 / 0.78 | 675 / 0.81 / 1.12 | 675 / 0.84 / 1.15 | 675 / 0.98 / 1.60 |
| Refrigerant pre-filling for (m) | | 7 | 7 | 7 | 7 | 7 |
| Top-up quantity of refrigerant (g / m) | | 20 | 20 | 20 | 20 | 40 |
| Refrigerant pipe size Ø (mm) | fl. | 6 | 6 | 6 | 6 | 10 |
| | s. | 10 | 10 | 12 | 16 | 16 |
| **Electrical data** | | | | | | |
| Voltage supply (V, phase, Hz) | | 220 – 240, 1, 50 | 220 – 240, 1, 50 | 220 – 240, 1, 50 | 220 – 240, 1, 50 | 220 – 240, 1, 50 |
| Operating current (A) | | 3.5 | 4.9 | 5.58 | 9.0 | 10.0 |
| Recommended cable cross-section - supply cable to outdoor unit (mm²) | | 3 x 1.5 | 3 x 1.5 | 3 x 2.5 | 3 x 2.5 | 3 x 2.5 |
| Recommended cable cross-section - indoor unit - outdoor unit (mm²) | | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 |
| Recommended breaker size (A) | | 10 | 10 | 20 | 20 | 20 |

Sound pressure level of the indoor unit measured centrically at a distance of 1.5 m below the unit at static pressure of 15 Pa
Energy efficiency class on a scale from A+++ to D

Our air conditioning equipment and heat pumps contain fluorinated greenhouse gases R410A, R134a, R32.
For further information please see the corresponding operation manual.

# Overview of combination options

**Multi-split inverter with indoor units**
Selecting suitable indoor units involves observing the individual spatial conditions.

The number of indoor units and the required output are used to determine the right multi-split outdoor unit.

**Step 1:** selecting indoor unit models for each room.

Wall-mounted units    Truhengerät    Ceiling cassettes    Ceiling concealed unit    Ceiling suspended unit

**Step 2:** selecting the outdoor unit based on the number of indoor units and total output requirement.

Multi-split outdoor units R410A

**For 2 to 8 indoor units**

Distributor boxes

PUMY-P112VKM/YKM
PUMY-P125VKM/YKM
PUMY-P140VKM/YKM
PUMY-SP112VKM/YKM
PUMY-SP125VKM/YKM
PUMY-SP140VKM/YKM

PAC-MK33BC    PAC-MK53BC    PAC-LV11M-J

Multi-split outdoor units R32

| **For 2 indoor units** | **For 2 to 3 indoor units** | **For 2 to 4 indoor units** | **For 2 to 5 indoor units** | **For 2 to 6 indoor units** |
|---|---|---|---|---|
| MXZ-2F33VF3<br>MXZ-2F42VF3<br>MXZ-2F53VF3 | MXZ-3F54VF3<br>MXZ-3F68VF3 | MXZ-4F72VF3<br>MXZ-4F83VF | MXZ-5F102VF | MXZ-6F122VF |

Please see the 'MXZ combination tables' for the output tables.

# R32: connectable multi-split inverter output classes

| Indoor unit | Outdoor unit | 'Heat pump'-type inverter-controlled models | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MXZ-2F33VF3[3] | MXZ-2F42VF3[3] | MXZ-2F53VF3[3] | MXZ-3F54VF3[3] | MXZ-3F68VF3[3] | MXZ-4F72VF3[3] | MXZ-4F80VF3[3] | MXZ-4F83VF | MXZ-5F102VF | MXZ-6F122VF |
| Wall-mounted units | MSZ-LN18VG2(W)(V)(R)(B) | • | • | • | • | • | • | • | • | • | • |
| | MSZ-LN25VG2(W)(V)(R)(B) | • | • | • | • | • | • | • | • | • | • |
| | MSZ-LN35VG2(W)(V)(R)(B) | | • | • | • | • | • | • | • | • | • |
| | MSZ-LN50VG2(W)(V)(R)(B) | | | | • | • | • | • | • | • | • |
| | MSZ-LN60VG2(W)(V)(R)(B) | | | | | | | | | | |
| | MSZ-EF18VGK(W)(B)(S) | • | • | • | • | • | • | • | • | • | • |
| | MSZ-EF25VGK(W)(B)(S) | • | • | • | • | • | • | • | • | • | • |
| | MSZ-EF35VGK(W)(B)(S) | | • | • | • | • | • | • | • | • | • |
| | MSZ-EF42VGK(W)(B)(S) | | | • | • | • | • | • | • | • | • |
| | MSZ-EF50VGK(W)(B)(S) | | | • | • | • | • | • | • | • | • |
| | MSZ-AP15VGK | • | • | • | • | • | • | • | •[3] | •[3] | •[3] |
| | MSZ-AP20VGK | • | • | • | • | • | • | • | •[3] | •[3] | •[3] |
| | MSZ-AP25VGK | • | • | • | • | • | • | • | • | • | • |
| | MSZ-AP35VGK | | • | • | • | • | • | • | • | • | • |
| | MSZ-AP42VGK | | | • | • | • | • | • | • | • | • |
| | MSZ-AP50VGK | | | • | • | • | • | • | • | • | • |
| | MSZ-AP60VGK | | | | | • | • | • | • | • | • |
| | MSZ-AP71VGK | | | | | | | | • | • | • |
| Floor-standing unit | MFZ-KT50VG | | | | • | • | • | • | • | • | • |
| | MFZ-KT25VG | • | • | • | • | • | • | • | • | • | • |
| | MFZ-KT35VG | | • | • | • | • | • | • | • | • | • |
| | MFZ-KT60VG | | | | | | | | | | |
| 1-way ceiling cassette | MLZ-KP25VF | • | • | • | • | • | • | • | • | • | • |
| | MLZ-KP35VF | | • | • | • | • | • | • | • | • | • |
| | MLZ-KP50VF | | | | • | • | • | • | • | • | • |
| 4-way ceiling cassette | SLZ-M15FA | • | • | • | • | • | • | • | •[3] | •[3] | •[3] |
| | SLZ-M25FA | • | • | • | • | • | • | • | • | • | • |
| | SLZ-M35FA | | | • | • | • | • | • | • | • | • |
| | SLZ-M50FA | | | | • | • | • | • | • | • | • |
| Ceiling concealed unit | SEZ-M25DA[2] | • | • | • | • | • | • | • | • | • | • |
| | SEZ-M35DA | | • | • | • | • | • | • | • | • | • |
| | SEZ-M50DA | | | | • | • | • | • | • | • | • |
| | SEZ-M60DA | | | | | • | • | • | • | • | • |
| Ceiling suspended unit | PCA-M50KA | | | | • | • | • | • | | | |
| | PCA-M60KA | | | | | • | • | • | | | |
| Ceiling concealed unit | PEAD-M50JA | | | | •[1] | •[1] | •[1] | •[1] | | | |

1 Maximum total current of the indoor units: 3 A or less.

2 SEZ-M25 cannot be connected to MXZ-2F/3F/4F if the total output of the connected indoor units corresponds to the output of the outdoor units (output ratio of 1).

3 Not designed for operation with an individual indoor unit and 1-to-1 piping. Please install at least two indoor units.

**R32**

MXZ-2F33–53VF3    MXZ-3F54/68VF3 / MXZ-4F72/80VF3

# Multi-split inverters
## for 2 to 4 indoor units / Cooling and heating

| Low-temperature Cooling | Low-temperature Heating | Auto Restart | Pre-charged | Certified Quality | INVERTER | REUSE PIPING |

**R 32**

## MXZ multi-split inverter outdoor units, cooling / heating

| Outdoor units | | MXZ-2F33VF3 | MXZ-2F42VF3 | MXZ-2F53VF3 | MXZ-3F54VF3 | MXZ-3F68VF3 | MXZ-4F72VF3 | MXZ-4F80VF3 |
|---|---|---|---|---|---|---|---|---|
| Cooling | Cooling capacity (kW) | 3,3 (1,1–3,8) | 4,2 (1,1–4,4) | 5,3 (1,1–5,6) | 5,4 (2,9–6,8) | 6,8 (2,9–8,4) | 7,2 (3,7–8,8) | 8,0 (3,7–9,0) |
| | Power consumption (kW) | 0,8 | 0,98 | 1,4 | 1,32 | 1,84 | 1,85 | 2,25 |
| | SEER | 6,13 | 8,69 | 8,63 | 8,52 | 7,96 | 8,13 | 7,55 |
| | Energy efficiency class | A++ | A+++ | A+++ | A+++ | A++ | A++ | A++ |
| | Application range (°C) | −10~+46 | −10~+46 | −10~+46 | −10~+46 | −10~+46 | −10~+46 | −10~+46 |
| Heating | Heating capacity (kW) | 4,0 (1,0–4,1) | 4,5 (1,0–4,8) | 6,4 (1,0–7,0) | 7,0 (2,6–9,0) | 8,6 (2,6–10,6) | 8,6 (3,4–10,7) | 8,8 (3,4–11,0) |
| | Power consumption (kW) | 0,91 | 0,88 | 1,56 | 1,40 | 1,91 | 1,87 | 2,0 |
| | SCOP | 4,16 | 4,60 | 4,60 | 4,61 | 4,12 | 4,07 | 4,07 |
| | Energy efficiency class | A+ | A++ | A++ | A++ | A+ | A+ | A+ |
| | Application range (°C) | −15~+24 | −15~+24 | −15~+24 | −15~+24 | −15~+24 | −15~+24 | −15~+24 |

| Outdoor units | | MXZ-2F33VF3 | MXZ-2F42VF3 | MXZ-2F53VF3 | MXZ-3F54VF3 | MXZ-3F68VF3 | MXZ-4F72VF3 | MXZ-4F80VF3 |
|---|---|---|---|---|---|---|---|---|
| Airflow (m³/h) | | 1974 | 1662 | 1974 | 2526 | 2526 | 2526 | 2562 |
| Sound pressure level cooling / heating (dB(A)) | | 49/50 | 44/50 | 46/51 | 46/50 | 48/53 | 48/54 | 50/55 |
| Dimensions (mm) | W/D/H | 800/285/550 | 800/285/550 | 800/285/550 | 840/330/710 | 840/330/710 | 840/330/710 | 840/330/710 |
| Weight (kg) | | 33 | 37 | 37 | 58 | 58 | 59 | 59 |
| Connectable indoor units (number) | | 2 | 2 | 2 | 2–3 | 2–3 | 2–4 | 2–4 |
| **Refrigeration data** | | | | | | | | |
| Total pipe length (m)* | | 20/15** | 30/20** | 30/20** | 50/25** | 60/25** | 60/25** | 60/25** |
| Max. height difference (m) | | 10 | 15/10* | 15/10* | 15/10* | 15/10* | 15/10* | 15/10* |
| Refrigerant type / refrigerant quantity (kg) / max. quantity (kg) | | R32/0.80/0.80 | R32/1.0/1.0 | R32/1.0/1.0 | R32/2.4/2.4 | R32/2.4/2.4 | R32/2.4/2.4 | R32/2.4/2.4 |
| GWP / CO₂ equivalent (t) / CO₂ equivalent max. (t) | | 675/0.54/0.54 | 675/0.675/0.675 | 675/0.675/0.675 | 675/1.62/1.62 | 675/1.62/1.62 | 675/1.62/1.62 | 675/1.62/1.62 |
| Refrigerant pre-filling for (m) | | 20 | 30 | 30 | 50 | 60 | 60 | 60 |
| Top-up quantity of refrigerant (kg) | | − | − | − | − | − | − | − |
| Refrigerant pipe size Ø (mm) | fl. | 2 x 6 | 2 x 6 | 2 x 6 | 3 x 6 | 3 x 6 | 4 x 6 | 4 x 6 |
| | s. | 2 x 10 | 2 x 10 | 2 x 10 | 3 x 10 | 3 x 10 | 1 x 12/3 x 10 | 1 x 12/3 x 10 |
| **Electrical data** | | | | | | | | |
| Voltage supply (V, phase, Hz) | | 220–240, 1, 50 | 220–240, 1, 50 | 220–240, 1, 50 | 220–240, 1, 50 | 220–240, 1, 50 | 220–240, 1, 50 | 220–240, 1, 50 |
| Operating current cooling / heating (A) | | 4.3/4.6 | 4.9/4.4 | 6.5/7.5 | 6.0/6.4 | 8.4/8.8 | 8.5/8.6 | 10.3/9.2 |
| Recommended cable cross-section - supply cable to outdoor unit (mm²) | | 3 x 1.5 | 3 x 2.5 | 3 x 2.5 | 3 x 2.5 | 3 x 2.5 | 3 x 2.5 | 3 x 2.5 |
| Recommended cable cross-section - indoor unit - outdoor unit (mm²) | | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 |
| Max. operating current (A) | | 10.0 | 12.2 | 12.2 | 18.0 | 18.0 | 18.0 | 18.0 |
| Recommended breaker size (A) | | 16 | 16 | 16 | 25 | 25 | 25 | 25 |

\*    15 m if the outdoor unit is located below; 10 m if the outdoor unit is located above the indoor units

\*\*   per connected indoor unit

Energy efficiency class on a scale from A+++ to D

▶ **The multi-split systems of the MXZ series operate in either cooling or heating mode.**

Our air conditioning equipment and heat pumps contain fluorinated greenhouse gases R410A, R134a, R32.
For further information please see the corresponding operation manual.

MXZ-4F83VF | MXZ-5F102VF | MXZ-6F122VF

**R32**

# Multi-split inverters
## for 2 to 6 indoor units / Cooling and heating

| Low-temperature Cooling | Low-temperature Heating | Auto Restart | Pre-charged | Certified Quality | INVERTER | REUSE PIPING |
|---|---|---|---|---|---|---|

**R 32**

## MXZ multi-split inverter outdoor units, cooling / heating

| Outdoor units | | MXZ-4F83VF | MXZ-5F102VF | MXZ-6F122VF |
|---|---|---|---|---|
| Cooling | Cooling capacity (kW) | 8.3 (3.7 – 9.2) | 10.2 (3.9 – 11.0) | 12.2 (3.5 – 13.5) |
| | Power consumption (kW) | 1.97 | 2.8 | 3.66 |
| | SEER | 8.51 | 8.21 | 7.65 |
| | Energy efficiency class | A+++ | A++ | – |
| | Application range (°C) | −10~+46 | −10~+46 | −10~+46 |
| Heating | Heating capacity (kW) | 9.0 (3.4 – 11.6) | 10.5 (4.1 – 14.0) | 14.0 (3.5 – 16.5) |
| | Power consumption (kW) | 2.00 | 2.28 | 3.31 |
| | SCOP | 4.72 | 4.56 | 4.65 |
| | Energy efficiency class | A++ | A++ | – |
| | Application range (°C) | −15~+24 | −15~+24 | −15~+24 |

| Outdoor units | | MXZ-4F83VF | MXZ-5F102VF | MXZ-6F122VF |
|---|---|---|---|---|
| Airflow (m³ / h) | | 2526 | 3396 | 4194 |
| Sound pressure level cooling / heating (dB(A)) | | 49 / 50 | 53 / 55 | 55 / 57 |
| Dimensions (mm) | W / D / H | 950 / 330 / 796 | 950 / 330 / 796 | 950 / 330 / 1.048 |
| Weight (kg) | | 62 | 62 | 87 |
| Connectable indoor units (number) | | 1 – 4** | 1 – 5** | 1 – 6** |
| **Refrigeration data** | | | | |
| Total pipe length (m) | | 70 / 25* | 80 / 25* | 80 / 25* |
| Max. height difference (m) | | 15 | 15 | 15 |
| Refrigerant type / refrigerant quantity (kg) / max. quantity (kg) | | R32 / 2.4 / 2.4 | R32 / 2.4 / 2.4 | R32 / 2.4 / 2.4 |
| GWP / CO$_2$ equivalent (t) / CO$_2$ equivalent max. (t) | | 675 / 1.62 / 1.62 | 675 / 1.62 / 1.62 | 675 / 1.62 / 1.62 |
| Refrigerant pre-filling for (m) | | 70 | 80 | 80 |
| Top-up quantity of refrigerant (g / m) | | – | – | – |
| Refrigerant pipe size Ø (mm) | fl. | 4 x 6 | 5 x 6 | 6 x 6 |
| | s. | 1 x 12 / 3 x 10 | 1 x 12 / 4 x 10 | 1 x 12 / 5 x 10 |
| **Electrical data** | | | | |
| Voltage supply (V, phase, Hz) | | 220 – 240, 1, 50 | 220 – 240, 1, 50 | 220 – 240, 1, 50 |
| Operating current cooling / heating (A) | | 8.7 / 8.8 | 12.3 / 10 | 16.1 / 14.5 |
| Recommended cable cross-section - supply cable to outdoor unit (mm²) | | 3 x 2.5 | 3 x 2.5 | 3 x 4 |
| Recommended cable cross-section - indoor unit - outdoor unit (mm²) | | 4 x 1.5 | 4 x 1.5 | 4 x 1.5 |
| Max. operating current (A) | | 21.4 | 21.4 | 29.8 |
| Recommended breaker size (A) | | 25 | 25 | 32 |

\*   per connected indoor unit
\*\*   1-port connection only possible with sizes >25

Energy efficiency class on a scale from A+++ to D
Supply of MXZ-4F83VF subject to limited stock availability

▶ The multi-split systems of the MXZ series operate in either cooling or heating mode.

Our air conditioning equipment and heat pumps contain fluorinated greenhouse gases R410A, R134a, R32.
For further information please see the corresponding operation manual.

**PUMY-P112–140VKM/YKM**

# Multi-split inverters
## for 2 to 8 indoor units/Cooling and heating

Low-temperature Cooling · Low-temperature Heating · Auto Restart · Pre-charged · R 410 A · Certified Quality · INVERTER

## PUMY multi-split inverter outdoor units, cooling/heating

| Outdoor units | | PUMY-P112VKM | PUMY-P112YKM | PUMY-P125VKM | PUMY-P125YKM | PUMY-P140VKM | PUMY-P140YKM |
|---|---|---|---|---|---|---|---|
| **Cooling** | Cooling capacity (kW) | 12.5 | 12.5 | 14.0 | 14.0 | 15.5 | 15.5 |
| | Power consumption (kW) | 2.79 | 2.79 | 3.46 | 3.46 | 4.52 | 4.52 |
| | EER/SEER | 4.48/6.55 | 4.48/6.55 | 4.05/6.6 | 4.05/6.6 | 3.43/6.25 | 3.43/6.25 |
| **Heating** | Heating capacity (kW) | 14.0 | 14.0 | 16.0 | 16.0 | 18.0 | 18.0 |
| | Power consumption (kW) | 3.04 | 3.04 | 3.74 | 3.74 | 4.47 | 4.47 |
| | COP/SCOP | 4.61/4.64 | 4.61/4.64 | 4.28/4.63 | 4.28/4.63 | 4.03/4.42 | 4.03/4.42 |

| Outdoor units | | PUMY-P112VKM | PUMY-P112YKM | PUMY-P125VKM | PUMY-P125YKM | PUMY-P140VKM | PUMY-P140YKM |
|---|---|---|---|---|---|---|---|
| Airflow (m³/h) | | 6600 | 6600 | 6600 | 6600 | 6600 | 6600 |
| Sound pressure level cooling/heating (dB(A)) | | 49/51 | 49/51 | 50/52 | 50/52 | 51/53 | 51/53 |
| Dimensions (mm) | W/D/H | 1.050/330+30/1.338 | 1.050/330+30/1.338 | 1.050/330+30/1.338 | 1.050/330+30/1.338 | 1.050/330+30/1.338 | 1.050/330+30/1.338 |
| Weight (kg) | | 123 | 125 | 123 | 125 | 123 | 125 |
| **Refrigeration data** | | | | | | | |
| Maximum cable length with junction box (m) | | 150 | 150 | 150 | 150 | 150 | 150 |
| Max. pipe length distributor/indoor units (m) | | 95 | 95 | 95 | 95 | 95 | 95 |
| Max. height difference indoor units/distributor (m) | | 15/12 | 15/12 | 15/12 | 15/12 | 15/12 | 15/12 |
| Refrigerant type/refrigerant quantity (kg)/max. quantity (kg) GWP/CO$_2$ equivalent (t)/CO$_2$ equivalent max. (t) | | R410A/4.80/18.60 2088/10.02/38.83 | R410A/4.80/18.60 2088/10.02/38.83 | R410A/4.80/18.60 2088/10.02/38.83 | R410A/4.80/18.60 2088/10.02/38.83 | R410A/4.80/18.60 2088/10.02/38.83 | R410A/4.80/18.60 2088/10.02/38.83 |
| Refrigerant pipe size Ø (mm) | fl. | 10 | 10 | 10 | 10 | 10 | 10 |
| | s. | 16 | 16 | 16 | 16 | 16 | 16 |
| Refrigeration connections to indoor units with junction box Ø (mm) | fl. | 3 x 6–5 x 6 | 3 x 6–5 x 6 | 3 x 6–5 x 6 | 3 x 6–5 x 6 | 3 x 6–5 x 6 | 3 x 6–5 x 6 |
| | s. | 3 x 10–4 x 10 + 1 x 12 | 3 x 10–4 x 10 + 1 x 12 | 3 x 10–4 x 10 + 1 x 12 | 3 x 10–4 x 10 + 1 x 12 | 3 x 10–4 x 10 + 1 x 12 | 3 x 10–4 x 10 + 1 x 12 |
| **Electrical data** | | | | | | | |
| Voltage supply (V, phase, Hz) | | 220–240, 1, 50 | 380–415, 3+N, 50 | 220–240, 1, 50 | 380–415, 3+N, 50 | 220–240, 1, 50 | 380–415, 3+N, 50 |
| Operating current cooling/heating (A) | | 12.87/14.03 | 4.46/4.86 | 15.97/17.26 | 5.53/5.98 | 20.86/20.63 | 7.23/7.15 |
| Recommended breaker size (A) | | 32 | 16 | 32 | 16 | 32 | 16 |
| Connectable indoor units (number/type) | | 2–8/15–100 | 2–8/15–100 | 2–8/15–100 | 2–8/15–100 | 2–8/15–100 | 2–8/15–100 |

▶ The multi-split systems of the PUMY series operate in either cooling or heating mode. At least 2 indoor units need to be connected.

▶ Required branch boxes PAC-MK34/54, see page 50

Our air conditioning equipment and heat pumps contain fluorinated greenhouse gases R410A, R134a, R32.
For further information please see the corresponding operation manual.

**PUMY-SP112−140VKM / YKM**

# Multi-split inverters
## for 2 to 8 indoor units / Cooling and heating

| | | | | | |
|---|---|---|---|---|---|
| Low-temperature Cooling | Low-temperature Heating | Auto Restart | R 410 A Pre-charged | Certified Quality | INVERTER |

## PUMY multi-split inverter outdoor units, cooling / heating

| Outdoor units | | PUMY-SP112VKM | PUMY-SP112YKM | PUMY-SP125VKM | PUMY-SP125YKM | PUMY-SP140VKM | PUMY-SP140YKM |
|---|---|---|---|---|---|---|---|
| Cooling | Cooling capacity (kW) | 12.5 | 12.5 | 14.0 | 14.0 | 15.5 | 15.5 |
| | Power consumption (kW) | 3.10 | 3.10 | 3.84 | 3.84 | 4.70 | 4.70 |
| | EER / SEER | 4.03 / 6.61 | 4.03 / 6.61 | 3.65 / 6.6 | 3.65 / 6.6 | 3.30 / 6.38 | 3.30 / 6.38 |
| Heating | Heating capacity (kW) | 14.0 | 14.0 | 16.0 | 16.0 | 16.5 | 16.5 |
| | Power consumption (kW) | 3.17 | 3.17 | 3.90 | 3.90 | 4.02 | 4.02 |
| | COP / SCOP | 4.42 / 3.98 | 4.42 / 3.98 | 4.10 / 3.93 | 4.10 / 3.93 | 4.10 / 3.90 | 4.10 / 3.90 |

| Outdoor units | | PUMY-SP112VKM | PUMY-SP112YKM | PUMY-SP125VKM | PUMY-SP125YKM | PUMY-SP140VKM | PUMY-SP140YKM |
|---|---|---|---|---|---|---|---|
| Airflow (m³ / h) | | 4620 | 4620 | 4860 | 4820 | 4860 | 4820 |
| Sound pressure level cooling / heating (dB(A)) | | 52 / 54 | 52 / 54 | 53 / 56 | 53 / 56 | 54 / 56 | 54 / 56 |
| Dimensions (mm) | W / D / H | 1.050 / 330+40 / 981 | 1.050 / 330+40 / 981 | 1.050 / 330+40 / 981 | 1.050 / 330+40 / 981 | 1.050 / 330+40 / 981 | 1.050 / 330+40 / 981 |
| Weight (kg) | | 93 | 94 | 93 | 94 | 93 | 94 |
| **Refrigeration data** | | | | | | | |
| Maximum cable length with junction box (m) | | 120 | 120 | 120 | 120 | 120 | 120 |
| Max. pipe length distributor / indoor units (m) | | 95 | 95 | 95 | 95 | 95 | 95 |
| Max. height difference indoor units / distributor (m) | | 15 / 12 | 15 / 12 | 15 / 12 | 15 / 12 | 15 / 12 | 15 / 12 |
| Refrigerant type / refrigerant quantity (kg) / max. quantity (kg) GWP / CO$_2$ equivalent (t) / CO$_2$ equivalent max. (t) | | R410A / 3.5 / 12.5 2088 / 7.31 / 26.1 | R410A / 3.5 / 12.5 2088 / 7.31 / 26.1 | R410A / 3.5 / 12.5 2088 / 7.31 / 26.1 | R410A / 3.5 / 12.5 2088 / 7.31 / 26.1 | R410A / 3.5 / 12.5 2088 / 7.31 / 26.1 | R410A / 3.5 / 12.5 2088 / 7.31 / 26.1 |
| Refrigerant pipe size Ø (mm) | fl. | 10 | 10 | 10 | 10 | 10 | 10 |
| | s. | 16 | 16 | 16 | 16 | 16 | 16 |
| Refrigeration connections to indoor units with junction box Ø (mm) | fl. | 3 x 6−5 x 6 | 3 x 6−5 x 6 | 3 x 6−5 x 6 | 3 x 6−5 x 6 | 3 x 6−5 x 6 | 3 x 6−5 x 6 |
| | s. | 3 x 10−4 x 10 + 1 x 12 | 3 x 10−4 x 10 + 1 x 12 | 3 x 10−4 x 10 + 1 x 12 | 3 x 10−4 x 10 + 1 x 12 | 3 x 10−4 x 10 + 1 x 12 | 3 x 10−4 x 10 + 1 x 12 |
| **Electrical data** | | | | | | | |
| Voltage supply (V, phase, Hz) | | 220 − 240, 1, 50 | 380 − 415, 3+N, 50 | 220 − 240, 1, 50 | 380 − 415, 3+N, 50 | 220 − 240, 1, 50 | 380 − 415, 3+N, 50 |
| Operating current cooling / heating (A) | | 12.87 / 14.03 | 4.46 / 4.86 | 15.97 / 17.26 | 5.53 / 5.98 | 20.86 / 20.63 | 7.23 / 7.15 |
| Recommended breaker size (A) | | 32 | 16 | 32 | 16 | 32 | 16 |
| Connectable indoor units (number / type) | | 2 − 8 / 15 − 100 | 2 − 8 / 15 − 100 | 2 − 8 / 15 − 100 | 2 − 8 / 15 − 100 | 2 − 8 / 15 − 100 | 2 − 8 / 15 − 100 |

▶ The multi-split systems of the PUMY series operate in either cooling or heating mode. At least 2 indoor units need to be connected.

▶ Required branch boxes PAC-MK34 / 54, see page 50

| PAC-LV11M-J | PAC-MK54BC | PAC-MK34BC |

## Multi-split branch boxes
**For City Multi outdoor units**

### Advantages
• A customary tee can be used to connect the two branch boxes.

### LEV-Kit PAC-LV11M-J / PAC-MK34BC / PAC-MK54BC
The connection kits make it possible to connect indoor units from the M series and Mr. Slim series to City Multi VRF units. The advantage for users lies in the significantly larger choice of possible indoor units. In addition to the electronic expansion valve, the LEV kit contains a control board and an address board for the precise addressing of each indoor unit used.

### Branch boxes for PUMY outdoor units

| Designation of branch boxes | | PAC-MK34BC | PAC-MK54BC | PAC-LV11M-J |
|---|---|---|---|---|
| Dimensions (mm) | W | 450 | 450 | 180 |
| | D | 280 | 280 | 210 |
| | H | 170 | 170 | 140 |
| Weight (kg) | | 6.7 | 7.4 | 1.3 |
| Voltage supply (V, phase, Hz) | | 220−240, 1, 50 | 220−240, 1, 50 | 220−240, 1, 50 |
| Connectable indoor units (number) | | 1−3 | 1−5 | 1 |
| Connectable indoor units (power) | | 15−100* | 15−100* | 15−50 |

\* per indoor unit

The LEV kit can be mounted on the indoor unit itself or up to 15 m away, e.g. in a false ceiling outside the room that is to be air conditioned. The connection kits require a voltage supply (230 V, 50 Hz, 1 phase) and also supply voltage to the connected indoor unit. The insulated housing is impervious to vapour diffusion and does not require a condensate drain.

### Compatibility tables

#### Via PAC-LV11M-J to PUMY-P

| Unit | Type | Indoor unit performance index | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 15 | 18 | 20 | 25 | 35 | 42 | 50 | 60 | 71 |
| Wall-mounted units | MSZ-LN-VG2 | | | | • | • | | • | | |
| Wall-mounted units | MSZ-AP-VGK | • | | • | • | • | • | • | | |
| Wall-mounted units | MSZ-EF-VGK | | • | | • | • | • | • | | |
| Floor-standing units | MFZ-KT-VG | | | | • | • | | • | | |

#### Via PAC-LV11M-J to PUMY-SP

| Unit | Type | Indoor unit performance index | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 15 | 18 | 20 | 25 | 35 | 42 | 50 | 60 | 71 |
| Wall-mounted units | MSZ-LN-VG2 | | | | • | • | | • | | |
| Wall-mounted units | MSZ-AP-VGK | • | | • | • | • | • | • | | |
| Wall-mounted units | MSZ-EF-VGK | | • | | • | • | • | • | | |
| Floor-standing units | MFZ-KT-VG | | | | • | • | | • | | |

#### Via PAC-LV11M-J to PUHY-P/-EP**YNW, PURY-P/PURY-EP**YNW, PQHY-P**YLMA, PQRY-P**YLMA

| Unit | Type | Indoor unit performance index | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 15 | 18 | 20 | 25 | 35 | 42 | 50 | 60 | 71 |
| Wall-mounted units | MSZ-LN-VG2 | | | | • | • | | • | | |
| Wall-mounted units | MSZ-AP-VGK | • | | • | | | | | | |

#### Via PAC-MK33/53BC an PUMY-P

| Unit | Type | Indoor unit performance index | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 15 | 18 | 20 | 25 | 35 | 42 | 50 | 60 | 71 |
| Wall-mounted units | MSZ-LN-VG2 | | | | • | • | | • | | |
| Wall-mounted units | MSZ-AP-VGK | • | | • | • | • | • | • | | |
| Wall-mounted units | MSZ-EF-VGK | | • | | • | • | • | • | | |
| Floor-standing units | MFZ-KT-VG | | | | • | • | | • | | |
| 1-way ceiling cassettes | MLZ-KP-VF | | | | • | • | | • | | |
| Concealed ducted units | SEZ-M-DA | | | | • | • | | • | • | • |
| 4-way ceiling cassettes | SLZ-M-FA | • | | | • | • | | • | | |

#### Via PAC-MK33/53BC to PUMY-SP

| Unit | Type | Indoor unit performance index | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 15 | 18 | 20 | 25 | 35 | 42 | 50 | 60 | 71 |
| Wall-mounted units | MSZ-LN-VG2 | | | | • | • | | • | | |
| Wall-mounted units | MSZ-AP-VGK | • | | • | • | • | • | • | | |
| Wall-mounted units | MSZ-EF-VGK | | • | | • | • | • | • | | |
| Floor-standing units | MFZ-KT-VG | | | | • | • | | • | | |
| 1-way ceiling cassettes | MLZ-KP-VF | | | | • | • | | • | | |
| Concealed ducted units | SEZ-M-DA | | | | • | • | | • | • | • |
| 4-way ceiling cassettes | SLZ-M-FA | • | | | • | • | | • | | |

# Refrigerant top-up charge quantities
**Outdoor units**

### Refrigerant charge quantities with R32
• The single-split outdoor units are precharged for a pipe length of 7-15 m (single path length).
• The multi-split outdoor units have a refrigerant precharge for up to 20 m or 60 m.
• For greater pipe lengths, refrigerant quantities are required according to the table below.

Singlesplit R32

| Outdoor units | Refrigerant charge quantity (one way) in kg | | | | | |
|---|---|---|---|---|---|---|
| | 7 m | 10 m | 15 m | 20 m | 25 m | 30 m |
| MUZ-LN25VG2 | – | 0,80* | 0,90 | 1,00 | – | – |
| MUZ-LN35VG2 | – | 0,85* | 0,95 | 1,05 | – | – |
| MUZ-LN50VG2 | – | – | 1,25* | 1,35 | – | – |
| MUZ-LN60VG | 1,45* | 1,51 | 1,61 | 1,71 | 1,81 | 1,91 |
| MUZ-AP20VG | 0,55* | 0,61 | 0,71 | 0,81 | – | – |
| MUZ-AP25/35VG | 0,55* | 0,61 | 0,71 | 0,81 | – | – |
| MUZ-AP42VG | 0,70* | 0,76 | 0,86 | 0,96 | – | – |
| MUZ-AP50VG | 1,00* | 1,06 | 1,16 | 1,26 | – | – |
| MUZ-AP60VG | – | – | 1,05* | 1,15 | 1,25 | 1,35 |
| MUZ-AP71VG | – | – | 1,50* | 1,60 | 1,70 | 1,80 |
| MUZ-EF25VG | 0,80* | 0,89 | 1,04 | 1,19 | – | – |
| MUZ-EF35VG | 1,15* | 1,24 | 1,39 | 1,54 | – | – |
| MUZ-EF42VG | 1,15* | 1,24 | 1,39 | 1,54 | – | – |
| MUZ-EF50VG | 1,45* | 1,51 | 1,61 | 1,71 | 1,81 | 1,91 |
| SUZ-M25VA | 0,65* | 0,71 | 0,81 | 0,91 | – | – |
| SUZ-M35VA | 0,90* | 0,96 | 1,16 | 1,16 | 1,16 | – |
| SUZ-M50VA | 1,20* | 1,26 | 1,36 | 1,46 | 1,56 | 1,66 |
| SUZ-M60VA | 1,25* | 1,31 | 1,41 | 1,61 | 1,71 | 1,71 |
| SUZ-M71VA | 1,45* | 1,57 | 1,77 | 1,97 | 2,17 | 2,37 |

* Refrigerant precharge

### PUMY-P112/125/140VKM/YKM / PUMY-SP112/125/140VKM/YKM

**Precharge of outdoor units**
The outdoor units are factory precharged with the refrigerant quantities listed in the table below. Since the pipe lengths and the number of indoor units are not taken into account in these quantities, refrigerant must be added accordingly when the system is configured.

| Outdoor units | Factory charge quantity |
|---|---|
| PUMY-P112 | 4,8 kg |
| PUMY-P125 | 4,8 kg |
| PUMY-P140 | 4,8 kg |
| PUMY-SP112 | 3,5 kg |
| PUMY-SP125 | 3,5 kg |
| PUMY-SP140 | 3,5 kg |

| Additional charge quantity F | = | Sum of all pipes Dia. 6.0 mm (in m) x 19 g/m | + | Sum of all pipes Dia. 10.0 mm (in m) x 50g/m | + | Total cooling capacity of connected indoor units | Additional quantity for indoor units |
|---|---|---|---|---|---|---|---|
| | | | | | | bis 8,0 kW | 1,5 kg |
| | | | | | | 8,1 bis 16,0 kW | 2,5 kg |
| | | | | | | ab 16,1 kW | 3,0 kg |

| PAR-CT01MAA | PAR-40MAA | ME-AC/KNX1 / ME-AC/MBS1 | MAC-334IF-E | MAC-397IF-E |

# Optional interfaces

The new generation of M-series inverters is supplied with the new A-Control. The A-Control offers the benefit of expanded communication between the indoor and outdoor unit. This means that fault notifications from the indoor unit can be displayed on the outdoor unit and vice versa. In addition, the indoor units can be equipped with optional interfaces. Three interfaces are available:

**1. MAC-334IF-E interface for integrating M-series inverter indoor units into a City Multi bus system (M-Net)**
Thanks to this optional interface, the operation and monitoring of the M-series units can also be handled by the City Multi M-Net data bus and its system controllers. This makes it possible for the M-series units to be operated via a City Multi controller without being incorporated into a City Multi bus system. However, an additional power supply (PAC-SC-51KUA) is required to provide the necessary voltage in this context.
The following external actuation options are available:
• Connecting a wired remote controller

**2. MAC-397IF-E interface for connecting the M-series inverter indoor units**
The following external actuation options are available:
• Remote on/off control
• Output of operation notification or fault notification
 (only one output is possible)
• Locking of the on/off function on the local remote
 controller
• Operating mode change, cooling/heating
• Target temperature change

**3. ME-AC/KNX1, ME-AC/MBS1 or ME-AC-BAC-1 interface for integrating the M-series inverter indoor units into a building management system based on KNX (TP), Modbus or BACnet**
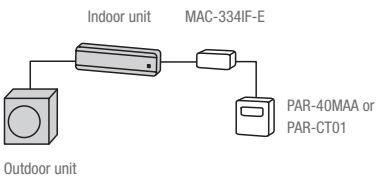This optional interface also makes it possible to control the M-series inverter directly via KNX (TP), Modbus or BACnet. As the interface voltage supply is handled via the M-series indoor unit, an external voltage source is not required.
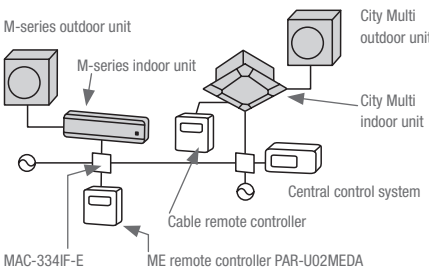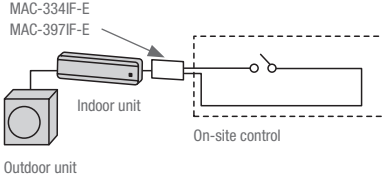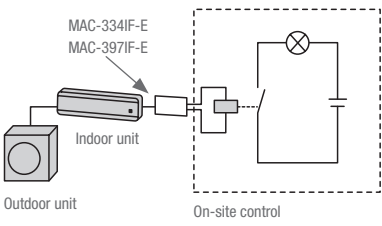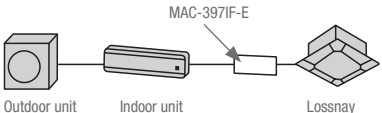
The interfaces support the following functions:

• Remote on/off function
• Mode pre-selection, heating/cooling/ventilation
• Setting the target temperature
• Fan stage pre-selection

Depending on the type of KNX (TP), Modbus or BACnet system present on site, it is possible that certain functions may be limited or unavailable..

# Overview of control systems
**Inverter**

| System | Example system | Connection | Functions | Accessories required |
|---|---|---|---|---|
| **Cable remote controller** Air conditioning unit operated via cable remote controller with integrated weekly timer. | Indoor unit  MAC-334IF-E  PAR-40MAA or PAR-CT01  Outdoor unit | An interface can be used to connect a cable remote controller. | • Mode change<br>• Target temperature setting<br>• Fan stage setting<br>• Blow-out direction<br>• Weekly timer operation | **MAC-334IF-E** Interface<br><br>**PAR-40MAA or PAR-CT01** Deluxe cable remote controller |
| **M-Net centralised remote controller** The air conditioning unit can be integrated into M-Net and operated with City Multi control units. | M-series outdoor unit  M-series indoor unit  City Multi outdoor unit  City Multi indoor unit  Central control system  Cable remote controller  MAC-334IF-E  ME remote controller PAR-U02MEDA | M-Net integration via interface | • Individual switch-on/switch-off and centralised switch-off possible.<br>• Mode, fan stage, temperature, air direction and timer can be controlled individually. | **MAC-334IF-E** M-NET interface<br><br>**Central control system City Multi** |
| **Remote on/off control** via external on-site contact (can be combined with operation notification). | MAC-334IF-E MAC-397IF-E  Indoor unit  On-site control  Outdoor unit | The interface is connected to the air conditioning unit and the external contact is hooked up to the interface. | • Remote on/off switching operation | **MAC-397IF-E or MAC-334IF-E** Interface<br><br>**Potential-free contact** (implemented on site) |
| **Operation/fault notification** The status of the air conditioning unit can be displayed (and combined with remote on/off control). | MAC-334IF-E MAC-397IF-E  Indoor unit  Outdoor unit  On-site control | The interface is connected to the indoor unit and issues a 12 V signal that can be processed externally. | • MAC-397IF-E for external display of operation (on/off) or air conditioning unit fault (only one of the two functions can be selected).<br>• MAC-334IF-E for external display of operation (on/off) and air conditioning unit fault (both functions can be selected). | **MAC-397IF-E** Interface<br><br>**Component for operating status display** (implemented on site, e.g. 12 V DC relay, signal lamp) |
| **Activation of Lossnay ventilation unit** | MAC-334IF-E MAC-397IF-E  Outdoor unit  Indoor unit  Lossnay | A Lossnay unit can be connected to the indoor unit via the interface. | • Lossnay is started when the air conditioning unit is switched on. | **MAC-397IF-E or MAC-334IF-E** Interface<br>**Cable connection to Lossnay** (implemented on site) |

Further information is provided in the Mitsubishi Electric manuals.

# Overview of accessories

| Indoor units | Plasma odour filter (10x) MAC-3010FT-E | Silver-ionized air purification filter (10x) MAC-** | Plasma-Quad-Connect MAC-100FT-E | 3D i-see sensor PAC-SF1ME-E | Condensate pump PAC-KE07DM-E | M-Net interface with MXZ/SUZ MAC-334IF-E | Interface for forming groups with SUZ/MXZ MAC-397IF-E | MELCloud Wi-Fi adapter MAC-567IF-E | External temperature sensor PAC-SE41TS-E | Remote on/off adapter PAC-SE55RA-E | Remote monitoring adapter PAC-SF40RM-E | Adapter for remote monitoring (12 V signal output) PAC-SA88HA-E | Deluxe PAR-40MAA | Compact PAC-YT-52CRA | Touch PAR-CT01 | Set (transmitter + receiver) PAR-SL94B-E | Standard transmitter PAR-SL97A-E | Deluxe transmitter PAR-SL100A-E | Receiver PAR-** | Remote controller holder[4] MAC-** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Wall-mounted units** | | | | | | | | | | | | | | | | | | | | |
| MSZ-LN18VG2(W)(V)(B)(R) | • | 2390FT-E | • | | | • | • | integrated | | | | | •[1] | •[1] | •[1] | | | | | 1300RC[5]/286RH |
| MSZ-LN25VG2(W)(V)(B)(R) | • | 2390FT-E | • | | | • | • | integrated | | | | | •[1] | •[1] | •[1] | | | | | 1300RC[5]/286RH |
| MSZ-LN35VG2(W)(V)(B)(R) | • | 2390FT-E | • | | | • | • | integrated | | | | | •[1] | •[1] | •[1] | | | | | 1300RC[5]/286RH |
| MSZ-LN50VG2(W)(V)(B)(R) | • | 2390FT-E | • | | | • | • | integrated | | | | | •[1] | •[1] | •[1] | | | | | 1300RC[5]/286RH |
| MSZ-LN60VG2(W)(V)(B)(R) | • | 2390FT-E | • | | | • | • | integrated | | | | | •[1] | •[1] | •[1] | | | | | 1300RC[5]/286RH |
| MSZ-AP15VGK | | | • | | | • | • | integrated | | | | | •[1] | •[1] | •[1] | | | | | 1300RC |
| MSZ-AP20VGK | | | • | | | • | • | integrated | | | | | •[1] | •[1] | •[1] | | | | | 1300RC |
| MSZ-AP25VGK | | 2370-FT-E | • | | | • | • | integrated | | | | | •[1] | •[1] | •[1] | | | | | 1300RC |
| MSZ-AP35VGK | | 2370-FT-E | • | | | • | • | integrated | | | | | •[1] | •[1] | •[1] | | | | | 1300RC |
| MSZ-AP42VGK | | 2370-FT-E | • | | | • | • | integrated | | | | | •[1] | •[1] | •[1] | | | | | 1300RC |
| MSZ-AP50VGK | | 2370-FT-E | • | | | • | • | integrated | | | | | •[1] | •[1] | •[1] | | | | | 1300RC |
| MSZ-AP60VGK | | 2360FT-E | • | | | • | • | integrated | | | | | •[1] | •[1] | •[1] | | | | | 1300RC |
| MSZ-AP71VGK | | 2360FT-E | • | | | • | • | integrated | | | | | •[1] | •[1] | •[1] | | | | | 1300RC |
| MSZ-EF18VGK (W)(B)(S) | | 2370FT-E | • | | | • | • | integrated | | | | | •[1] | •[1] | •[1] | | | | | 1300RC |
| MSZ-EF25VGK (W)(B)(S) | | 2370FT-E | • | | | • | • | integrated | | | | | •[1] | •[1] | •[1] | | | | | 1300RC |
| MSZ-EF35VGK (W)(B)(S) | | 2370FT-E | • | | | • | • | integrated | | | | | •[1] | •[1] | •[1] | | | | | 1300RC |
| MSZ-EF42VGK (W)(B)(S) | | 2370FT-E | • | | | • | • | integrated | | | | | •[1] | •[1] | •[1] | | | | | 1300RC |
| MSZ-EF50VGK (W)(B)(S) | | 2370FT-E | • | | | • | • | integrated | | | | | •[1] | •[1] | •[1] | | | | | 1300RC |
| **Floor-standing units** | | | | | | | | | | | | | | | | | | | | |
| MFZ-KT25VG | | 2370-FT-E | | | | • | • | • | | | | | •[1] | •[1] | •[1] | | | | | |
| MFZ-KT35VG | | 2370-FT-E | | | | • | • | • | | | | | •[1] | •[1] | •[1] | | | | | |
| MFZ-KT50VG | | 2370-FT-E | | | | • | • | • | | | | | •[1] | •[1] | •[1] | | | | | |
| MFZ-KT60VG | | 2370-FT-E | | | | • | • | • | | | | | •[1] | •[1] | •[1] | | | | | |
| **1-way ceiling cassette** | | | | | | | | | | | | | | | | | | | | |
| MLZ-KP25VF | | 2370-FT-E | | | | • | • | • | | | | | •[1] | •[1] | •[1] | | | | | |
| MLZ-KP35VF | | 2370-FT-E | | | | • | • | • | | | | | •[1] | •[1] | •[1] | | | | | |
| MLZ-KP50VF | | 2370-FT-E | | | | • | • | • | | | | | •[1] | •[1] | •[1] | | | | | |
| **4-way ceiling cassette** | | | | | | | | | | | | | | | | | | | | |
| SLZ-M15FA | | | | • | | • | • | • | • | • | •[2] | • | • | • | • | • | • | •[3] | SF9FA | |
| SLZ-M25FA | | | | • | | • | • | • | • | • | •[2] | • | • | • | • | • | • | •[3] | SF9FA | |
| SLZ-M35FA | | | | • | | • | • | • | • | • | •[2] | • | • | • | • | • | • | •[3] | SF9FA | |
| SLZ-M50FA | | | | • | | • | • | • | • | • | •[2] | • | • | • | • | • | • | •[3] | SF9FA | |
| SLZ-M60FA | | | | • | | • | • | • | • | • | •[2] | • | • | • | • | • | • | •[3] | SF9FA | |
| **Ceiling concealed units** | | | | | | | | | | | | | | | | | | | | |
| SEZ-M25DA | | | •[6] | | | • | • | • | • | • | •[2] | • | • | • | • | | • | | | SA9CA-E |
| SEZ-M35DA | | | •[6] | | • | • | • | • | • | • | •[2] | • | • | • | • | | • | | | SA9CA-E |
| SEZ-M50DA | | | •[6] | | • | • | • | • | • | • | •[2] | • | • | • | • | | • | | | SA9CA-E |
| SEZ-M60DA | | | •[6] | | • | • | • | • | • | • | •[2] | • | • | • | • | | • | | | SA9CA-E |
| SEZ-M71DA | | | •[6] | | • | • | • | • | • | • | •[2] | • | • | • | • | | • | | | SA9CA-E |

[1] MAC-397IF-E required

[2] Cannot be used with infrared remote controller

[3] Group control cannot be used

[4] MAC1300RC in a pack of 15; MAC-286RH in a pack of 10

[5] 1300RCis only required for MSZ-LN**(W)

[6] Additional installation kit required. Please submit a request

| Outdoor units | Options — Air panels MAC-889SG / MAC-886SG-E | Wind protection panels PAC-SH95AG-E | Condensate drain set PAC-SG61DS-E | Condensate tray PAC-SH-97DP-E |
|---|---|---|---|---|
| **Multi Split Inverter** | | | | |
| PUMY-P112 | | 2x per outdoor unit | • | • |
| PUMY-P125 | | 2x per outdoor unit | • | • |
| PUMY-P140 | | 2x per outdoor unit | • | • |

## Framework conditions
**M-series**

**Measurement conditions for Mitsubishi Electric air conditioning units**

| **Cooling** | Indoors: | 27 °C | (dry) |
| | | 19 °C | (damp) |
| | Outdoors: | 35 °C | (dry) |
| | | 24 °C | (damp) |

| **Heating** | Indoors: | 20 °C | (dry) |
| | Outdoors: | 7 °C | (dry) |
| | | 6 °C | (damp) |

Refrigerant pipe length (one way) 5 m, ΔH = 0 m. Sound pressure level measured in free field, outdoor unit measuring point 1 m away from and 1 m above the unit. Indoor unit conditions depend on the unit type; see technical data.

**Type key**

**Split indoor unit**

| **M** | Series |
| | M = M-series, S = S-series |
| **S** | Model |
| | S = wall-mounted unit, F = floor-standing unit |
| | E = ceiling concealed unit, L = ceiling cassette |
| **Z** | Inverter heat pump |
| **S** | Design |
| | G = Standard, F = Deluxe, S = Compact, E = Premium |
| | L = Diamond |
| **F** | Generation |
| | A = basic model, B, C, D, … = successor models |
| **25** | Cooling output = 2.5 kW |
| **V** | 230 V, 50 Hz |
| **E/A** | R410A and new A-CONTROL |
| **G** | R32 and new A-CONTROL |

**Split outdoor unit**

| **M** | Series |
| | M = M-series, S = S-series |
| **X** | X = multi-split, U = single-split |
| **Z** | Inverter heat pump |
| **3** | Max. no. of connectable indoor units |
| **D** | Generation |
| | A = basic model, B, C, D, … = successor models |
| **54** | Cooling output = 5.4 kW |
| **V** | 230 V, 50 Hz |
| **E/A** | R410A and new A-CONTROL |
| **F** | R32 and new A-CONTROL |

# Contents

## Benefits and properties

### The series for commercial applications

The air conditioning units in the Mr. Slim series are ideal for medium-sized rooms and can be installed as a single-split or multi-split parallel combination. The Mr. Slim series is synonymous with ultra energy-efficient and high-performance air conditioning units for easy integration into difficult environments. Mr. Slim air conditioning systems are used in a variety of settings, including doctors' practices, server rooms, offices, shops and restaurants, where whisper-quiet operation, high reliability and low energy consumption are extremely important.

### System variants

- Performance range from 3.5 kW to 28.0 kW for cooling and heating.
- Single-split or multi-split parallel arrangement of two, three and four indoor units.
- Easy-to-install indoor units available as ceiling cassettes, ceiling suspended units, ceiling concealed units, wall-mounted units and standard units.
- Energy-efficient outdoor units with heat pump function are available in your choice of typical Standard Inverter, high-performance Power Inverter or heating-optimised Zubadan Inverter format.
- Voltage supply 230 V, 1 phase, 50 Hz or 400 V, 3 phases, 50 Hz.
- The Mr. Slim air conditioning units can be combined with the Lossnay heat recovery ventilation units to generate an ideal system that combines air conditioning and ventilation.
- Can be connected to third-party ventilation systems via the PAC-IF extension kit.

### The benefits at a glance

#### Included as standard

- Durable high-performance filter.
- Condensate pump fitted as standard in all ceiling cassettes.
- R410A/R32 precharged in outdoor units.

#### Heating function

High COPs ensure low energy consumption even at low outside temperatures. In many cases, conventional heating units can be completely replaced with heat pump systems. Outdoor units with patented Zubadan technology feature an optimised function for quick defrosting, therefore ensuring particularly stable temperature comfort.

#### Quality seal for room air conditioning units

The German Building Air Conditioning Association (FGK) has bestowed its quality seal for room air conditioning units on all split units with heat pump function. The key criteria for receipt of this award include:

- Maximum energy efficiency – only inverter units can carry the quality label.
- Guaranteed availability of spare parts within two working days, with availability for a minimum of ten years.
- Comprehensive training programmes, design support and full documentation.
- Guaranteed compliance of the technical data in catalogues with the performance data required by EN 14511 or EN 14825.

**Single-split**
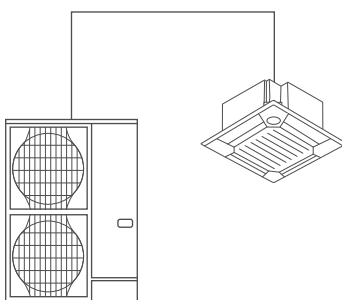
**Parallel multi-split**
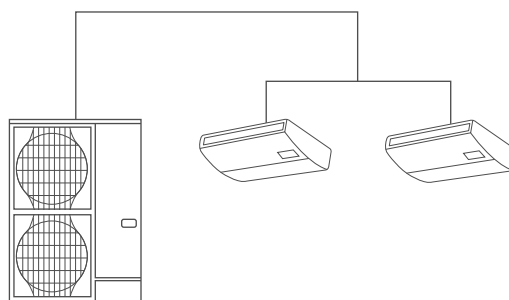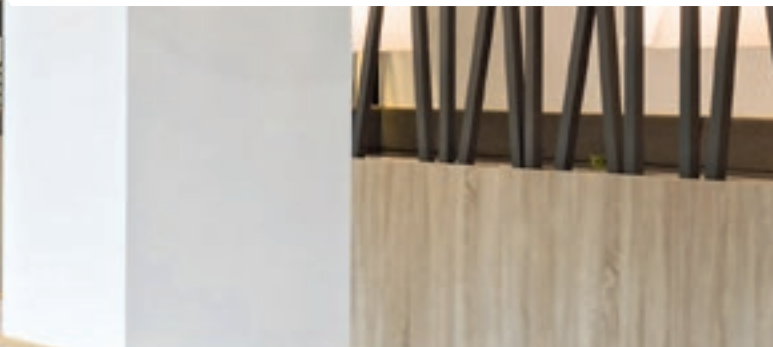
## Whisper-quiet operation
• Noise-optimised indoor units starting at 26 dB(A)
• Quiet-running outdoor units save on additional noise insulation measures, not least with regard to densely built residential and commercial areas. The low-noise function reduces the sound pressure level by 3 dB(A), which corresponds to a halving of the perceived noise level.

## High sensitive cooling capacity for technology and server room applications
• Special unit combinations are available for use in technology and server rooms. Thanks to a heat exchanger featuring generous dimensions, a high sensitive output can be achieved even during continuous operation. This also helps ensure reliable air conditioning in the context of low room humidity.

Turn to the IT/technology room solutions chapter to view additional professional systems for use in special applications requiring a high sensitive output.

## Special functions
• Automatic switchover between cooling and heating mode.
• The winter regulation ensures cooling even at an outside temperature of –15 °C (in the case of wind-protected installations), which is important for facilities such as IT/technology rooms in which heat must be discharged year round.

## Installation and maintenance made easy
• Up to size P140, there is no need for a separate supply line to the indoor unit. The voltage supply and data communication are handled by a 4-wire cable from the outdoor unit to the indoor unit.
• The PUZ-ZM200/250YKA outdoor units enable a pipe length of up to 100 m.

## A-CONTROL system
The A-CONTROL system enables direct communication between the indoor and outdoor unit. Up to 180 service parameters and fault notifications can conveniently be read on the indoor unit using the remote controller (optional easy-maintenance function).
Supports optional centralised link-up (via LonWorks® or centralised remote controller) to the building management system.

## Connection to door air curtain
Power Inverters can also be used to operate door air curtain systems. In this context, the external door air curtain system communicates with the inverter outdoor units via a new interface from Mitsubishi Electric.

**Noise-optimised outdoor units**

1/2 Noise level

Night 47 dB
(in cooling mode)

Day 50 dB
(in cooling mode)

**Low-noise function**

**Door air curtain system**

Door air curtain

Remote controller
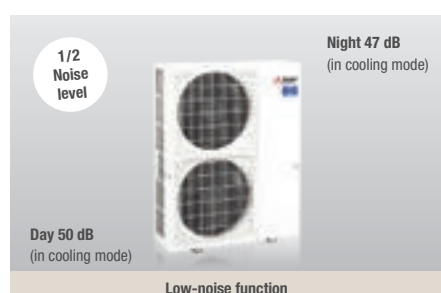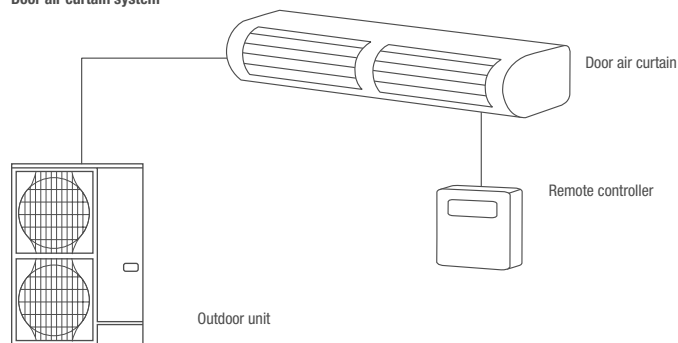
Outdoor unit

## What's new

**New ceiling concealed unit with high static pressure**
Users can now enjoy all the benefits of a Mr. Slim R32 out-door unit even in settings requiring the transportation of air over long distances.

The new ceiling concealed unit enables static pressure of up to 200 Pa and an air volume flow of up to 4,320 m³/h, making it particularly suitable for large spaces such as halls and foyers.

This unit can be installed when fully assembled and features an outside air connection.

**New wall-mounted unit PKA-M LAL**
Featuring a newly reworked design and available in output levels 35 and 50, the wall-mounted unit PKA-M is every bit as reliable and powerful as its predecessor.

This wall-mounted unit is easy to install and achieves a high air quality thanks to the long-life filter integrated as standard. Users can configure air flow monitoring via automatic fan-stage control and up to 4 selectable blower speeds. Additional functions such as the weekly timer, automatic restart after power failure and standard redundancy enable a high level of comfort.

**Plasma Quad Connect: optional filter kit[1]**
The benefits of Plasma Quad Plus technology are now option-ally available for Mr. Slim units (compatible with PLAM/ZM, PKA-M and PEAD-M).

Plasma Quad Plus filter technology ensures highly effec-tive air purification. Plasma ionisation and the electrostat-ically charged filter ensure that even the smallest particles (PM2.5; <2.5 µm) such as pollen, viruses, mould, bacteria and allergens are separated and rendered harmless.
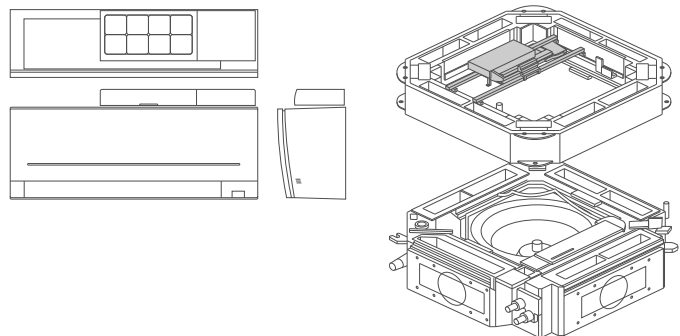
1  available as of May 2021
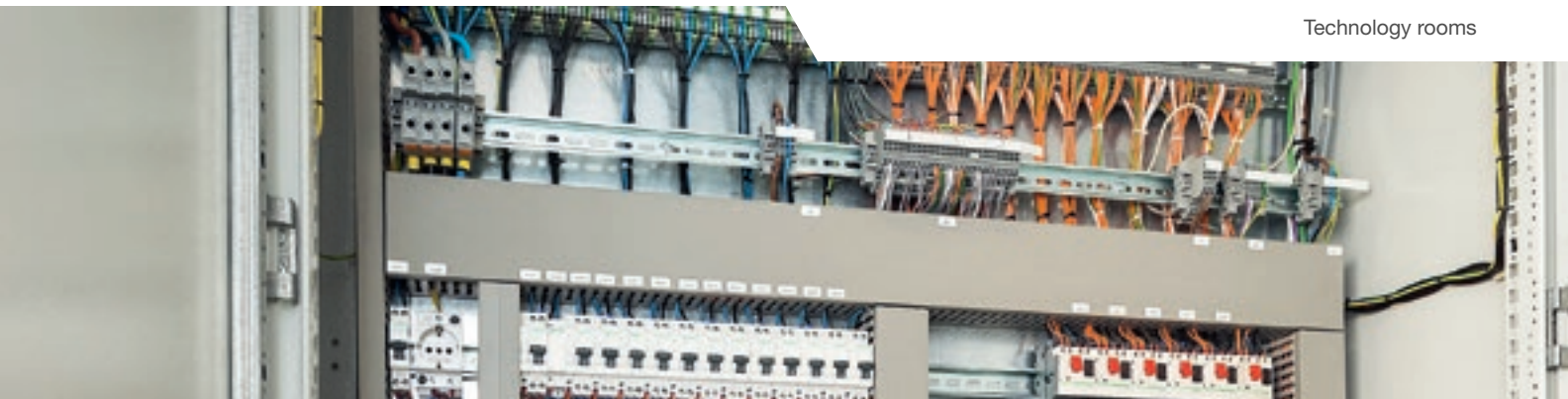
## Use in technology rooms

The units in the Mr. Slim series are ideal for air conditioning in technology rooms.

**High sensitive cooling capacity**
Large heat exchangers and high air volumes enable the units to achieve excellent sensitive cooling capacities. This also helps ensure reliable air conditioning in the context of low room humidity.

In order to achieve particularly high sensitive cooling capacities, the following combinations of Power Inverter outdoor units and wall-mounted/ceiling suspended units are available:

**Rotation back-up function**
The rotation bach-up function guarantees reliable air conditioning even if one system fails.

**Activation and monitoring**
External inputs and outputs can be used to monitor the operating status of the systems at all times. For details on the control options, see **page 92.**

More in-depth information on IT/technology room solutions is available starting on **page 198.**

### Ceiling suspended unit combinations

| Rated cooling capacity | 6.0 kW | 7.1 kW | 10.0 kW |
|---|---|---|---|
| Indoor unit | PCA-M71KA | PCA-M100KA | PCA-M125KA |
| Outdoor unit | PUHZ-ZRP60VKA | PUHZ-ZRP71VHA | PUHZ-ZRP100YKA |
| Sensitive output | 98 % | 100 % | 100 % |
| Effective sensitive cooling capacity | 5.7 kW | 6.7 kW | 8.6 kW |

Measurement conditions: outside temperature 35 °C, room temperature 24 °C, relative humidity 40 %.

### Wall-mounted unit combinations

| Rated cooling capacity | 3.5 kW | 5.0 kW | 6.0 kW |
|---|---|---|---|
| Indoor unit | PKA-M50LAL | PKA-M60KAL | PKA-M71KAL |
| Outdoor unit | PUHZ-ZRP35VKA | PUHZ-ZRP50VKA | PUHZ-ZRP60VHA |
| Sensitive output | 98 % | 100 % | 100 % |
| Effective sensitive cooling capacity | 3.5 kW | 5.4 kW | 5.6 kW |

Measurement conditions: outside temperature 35 °C, room temperature 24 °C, relative humidity 40 %.

**Redundancy function**



| System 1 | PAR-40MAA | System 2 |
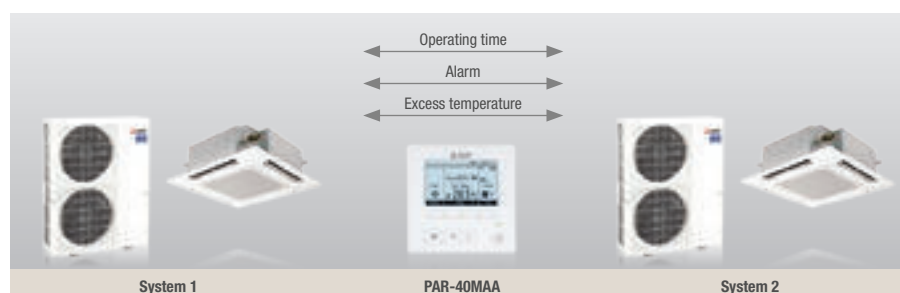
## Overview of functions



| Technology | | 4-way ceiling cassett PLA-ZM/PLA-M | | | Ceiling suspended unit PCA-M | | Stainless steel ceiling suspended unit PCA-M HA |
|---|---|---|---|---|---|---|---|
| | | Power Inverter | Zubadan Inverter | Standard Inverter | Power Inverter | Standard Inverter | Power Inverter |
| Standard Inverter | | | | ● | | ● | |
| Power Inverter | | ● | | | ● | | ● |
| Zubadan Inverter | | | ● | | | | |
| Replace technology | | ● | ● | ● | ● | ● | |
| Quality seal for split units | | ● | ● | ● | ● | ● | ● |
| Heat pump operation | | ● | ● | ● | ● | ● | ● |
| Winter regulation | | ● | ● | ● | ● | ● | ● |
| Multi-split | | ● | ● | ●[1] | ● | ●[1] | ● |
| Switching back on after voltage failure | | ● | ● | ● | ● | ● | ● |
| Precharged with R32 | | ● | | ● | ● | ● | ● |
| Precharged with R410A | | | ● | | ●[2] | | |
| Refrigerant charge level check | | ● | ● | | ● | | ● |
| Redundancy function | | ● | ● | ● | ● | ● | ● |
| Fresh-air connection | | ● | ● | ● | ● | ● | ● |
| Condensate pump (optional) | | Integrated | Integrated | Integrated | ● | ● | |
| MELCloud (optional) | | ● | ● | ● | ● | ● | ● |
| On/off timer | | ● | ● | ● | ● | ● | |
| Weekly timer | | ● | ● | ● | ● | ● | ● |
| Can be connected to cable remote controller | | ● | ● | ● | ● | ● | ● |
| 3D i-see sensor (optional) | | ● | ● | ● | | | |
| Vertical swing | | ● | ● | ● | ● | ● | |
| Automatic fan control | | ● | ● | ● | ● | ● | |
| Air purification filter | | ● | ● | ● | ● | ● | |
| Plasma Quad Connect filter | | ●[3] | ●[3] | ●[3] | | | |
| High-performance oil mist filter | | | | | | | ● |

1 Only for PUZ.
2 Only for use in technology rooms.
3 Optional.

| | Wall-mounted unit PKA-M LAL | Wall-mounted unit PKA-M KAL | | | Floor-mounted unit PSA-RP KA | Ceiling concealed unit PEAD-M JA | | | Ceiling concealed unit, high pressure, PEA-M LA | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Power Inverter | Power Inverter | Zubadan Inverter | Standard Inverter | Power Inverter | Power Inverter | Zubadan Inverter | Standard Inverter | Power Inverter | Standard Inverter |
| | | | | ● | | | | ● | | ● |
| | ● | ● | | | ● | ● | | | ● | |
| | | | ● | | | | ● | | | |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | ● | ● | ● | ●[1] | ● | ● | ● | ●[1] | | |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | ● | ● | | ● | ● | ● | | ● | ● | ● |
| | ●[2] | ●[2] | ● | | ● | | ● | | | |
| | ● | ● | ● | | ● | ● | ● | | ● | |
| | ● | ● | | ● | ● | ● | ● | ● | | |
| | | | | | | ● | ● | ● | ● | ● |
| | ● | ● | ● | ● | | Integrated | Integrated | Integrated | ● | ● |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | ● | ● | ● | ● | Integrated | ● | ● | ● | ● | ● |
| | | | | | | | | | | |
| | ● | ● | ● | ● | | | | | | |
| | ● | ● | ● | ● | | ● | ● | ● | | |
| | ● | ● | ● | ● | ● | ● | ● | ● | ●[3] | ●[3] |
| | ●[3] | ●[3] | ●[3] | ●[3] | | ●[3] | ●[3] | ●[3] | | |
| | | | | | | | | | | |

For a detailed description of the function symbols, see pages 06–09.

# Indoor units

| | Performance code | 35 | 50 | 60 | 71 | 100 | 125 | 140 | 200 | 250 |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Inverter cooling and heating | Cooling capacity (kW) | 3,5 | 5,0 | 6,0 | 7,1 | 10,0 | 12,5 | 14,0 | 19,0 | 22,0 |
| ■ Page reference | Heating capacity (kW) | 4,0 | 4,5 | 7,0 | 8,0 | 11,0 | 14,0 | 16,0 | 22,4 | 27,0 |

| Unit | 35 | 50 | 60 | 71 | 100 | 125 | 140 | 200 | 250 |
|---|---|---|---|---|---|---|---|---|---|
| 4-way ceiling cassette PLA-ZM/PLA-M — 66–69 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | |
| Ceiling suspended unit PCA-M KA — 70–72 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | |
| Stainless steel ceiling suspended unit PCA-M HA — 70+73 | | | | ■ | | | | | |
| NEW Wall-mounted unit PKA-M LAL — 74–75 | ■ | ■ | | | | | | | |
| Wall-mounted unit PKA-M KAL — 74–77 | | | ■ | ■ | ■ | | | | |
| Floor-mounted unit PSA-RP KA — 78–79 | | | | ■ | ■ | ■ | ■ | | |
| Ceiling concealed unit PEAD-M JA — 80–83 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | |
| NEW R32 Ceiling concealed unit, high pressure, PEA-M LA — 80–85 | | | | | | | | ■ | ■ |

## Outdoor units

| Performance code | 35 | 50 | 60 | 71 | 100 | 125 | 140 | 200 | 250 |
|---|---|---|---|---|---|---|---|---|---|
| Cooling capacity (kW) | 3,5 | 5,0 | 6,0 | 7,1 | 10,0 | 12,5 | 14,0 | 19,0 | 22,0 |
| Heating capacity (kW) | 4,0 | 4,5 | 7,0 | 8,0 | 11,0 | 14,0 | 16,0 | 22,4 | 27,0 |

### Standard Inverter R32 SUZ-M, PUZ-M

SUZ-M35VA

SUZ-M50VA

SUZ-M60/71VA

PUZ-M-100VKA/YKA
PUZ-M-125VKA/YKA
PUZ-M-140VKA/YKA

PUZ-M200/250YKA

### Power Inverter R32 PUZ-ZM

PUZ-ZM35/50VKA

PUZ-ZM60/71VHA

PUZ-ZM100/125/140/200/250V(Y)KA

### Power Inverter R410A PUHZ-ZRP

PUHZ-ZRP35–71VHA

PUHZ-ZRP100/125/140YKA
PUHZ-ZRP200/250YKA

### Zubadan Inverter PUHZ-SHW

PUHZ-SHW112VHA-A
PUHZ-SHW112/140YHA-A

VHA: 230 V, 1 phase, 50 Hz/YHA: 400 V, 3 phases, 50 Hz

Only for combinations with PSA-RP and ventilation connections (PAC-IF combination)

## 4-way ceiling cassette PLA-ZM / PLA-M

### Highlights

- SCOP up to 4.9 / SEER up to 7.6
- Energy efficiency class up to A++/A++
- Sound pressure level from 26 dB(A)
- Installation height 258 mm / 298 mm

**Optional 3D i-see sensor**



**Filter lift panel**

1,2 m
1,6 m
2,0 m
2,4 m
2,8 m
3,2 m
3,6 m
4,0 m

This large square ceiling cassette has four air outlets that enable draught-free air distribution even where there are low ceilings.

**Optional 3D i-see sensor**
- Automatic air blow-out when the presence of people is detected
- Energy efficiency thanks to presence detection

**Coanda effect**
- Draught-free air conditioning thanks to air flow directed along the ceiling

**Individually adjustable blow-out plate fins**

**Fresh air connection is possible**

**Optional automatic filter lift**
- Can be lowered by 4 metres via the remote controller enabling easy and time-saving maintenance

**Optional high-performance filter**
- Additional filtering of fine dust particles from the room air

**Filter**
- Air purification filter
- High-performance filter for additional filtering of fine dust particles (optional)
- Plasma Quad Connect filter (optional)

**Choice of wired or infrared remote controller**

**MELCloud Wi-Fi adapter (optional)**

**Condensate pump integrated as standard**

### Accessories

| Type designation | Description | Quantity |
|---|---|---|
| PAC-YT52CRA | Wired remote control compact | 1 |
| PAR-40MAA | Wired remote control Deluxe | 1 |
| PAR-CT01MAA* | Wired remote controller with touchscreen | 1 |
| PAC-SE1ME-E | 3D i-see sensor | 1 |
| PLP-6EAJ | Filter lift panel | 1 |
| PAC-SH59KF-E | High-performance filter (requires PAC-SJ41TM-E) | 1 |
| MAC-567IF-E | MELCloud Wi-Fi adapter | 1 |
| PAC-SJ41TM-E | Outdoor air casement including filter housing | 1 |
| PAC-SK51FT-E | Plasma Quad Connect (available from June 2021) | 1 |

\*    Available in several versions Further information available in chapter controls
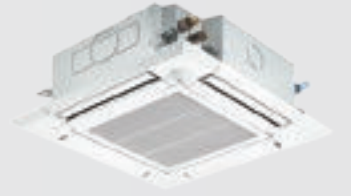
| PUZ-ZM35 / 50VKA | PUZ-ZM60 / 71VHA | PUZ-ZM100 – 140VKA / YKA | PLA-ZM |

**R32**

# 4-way ceiling cassette
## Single-split / power inverter / Cooling and heating

| | | | wireless | wired | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3D i-see-Sensor (optional) | WiFi MELCloud (optional) | Wired Remote Control connectable | On/Off | Weekly | Vertical Swing | Auto | Standard Filter | Plasma-Quad-Connect (optional) | Low-temperature Cooling | Low-temperature Heating | Fresh-air intake | Rotation Back-up | Drain Lift Up | Multi-Split |

| Auto Restart | Refrigerant Status Check | Pre-charged | Certified Quality | POWER INVERTER | REUSE PIPING |

## PLA-ZM ceiling cassette, cooling / heating, no remote control included

| Indoor units | | PLA-ZM35EA | PLA-ZM50EA | PLA-ZM60EA | PLA-ZM71EA | PLA-ZM100EA | PLA-ZM125EA | PLA-ZM140EA |
|---|---|---|---|---|---|---|---|---|
| Grille for cable remote control | | PLP-6EA | PLP-6EA | PLP-6EA | PLP-6EA | PLP-6EA | PLP-6EA | PLP-6EA |
| Grille for infrared remote control | | PLP-6EALM | PLP-6EALM | PLP-6EALM | PLP-6EALM | PLP-6EALM | PLP-6EALM | PLP-6EALM |
| Outdoor units | | PUZ-ZM35VKA | PUZ-ZM50VKA | PUZ-ZM60VHA | PUZ-ZM71VHA | PUZ-ZM100YKA | PUZ-ZM125YKA | PUZ-ZM140YKA |
| Cooling | Cooling capacity (kW) | 3.6 (1.6 – 4.5) | 5.0 (2.3 – 5.6) | 6.1 (2.7 – 6.5) | 7.1 (3.3 – 8.1) | 9.5 (4.9 – 11.4) | 12.5 (5.5 – 14.0) | 13.4 (6.2 – 15.0) |
| | Power consumption (kW) | 0.71 | 1.11 | 1.45 | 1.65 | 2.07 | 3.38 | 3.72 |
| | SEER | 7.5 | 7.6 | 7.2 | 7.6 | 7.5 | 7.2 | 6.9 |
| | Energy efficiency class | A++ | A++ | A++ | A++ | A++ | – | – |
| | Application range (°C) | −15~+46 | −15~+46 | −15~+46 | −15~+46 | −15~+46 | −15~+46 | −15~+46 |
| Heating | Heating capacity (kW) | 4.1 (1.6 – 5.2) | 6.0 (2.5 – 7.3) | 7.0 (2.8 – 8.2) | 8.0 (3.5 – 10.2) | 11.2 (4.5 – 14.0) | 14.0 (5.0 – 16.0) | 16.0 (5.7 – 18.0) |
| | Power consumption (kW) | 0.82 | 1.36 | 1.71 | 1.82 | 2.60 | 3.67 | 4.31 |
| | SCOP | 4.7 | 4.9 | 4.6 | 4.8 | 4.8 | 4.7 | 4.6 |
| | Energy efficiency class | A++ | A++ | A++ | A++ | A++ | – | – |
| | Application range (°C) | −11~+21 | −11~+21 | −20~+21 | −20~+21 | −20~+21 | −20~+21 | −20~+21 |

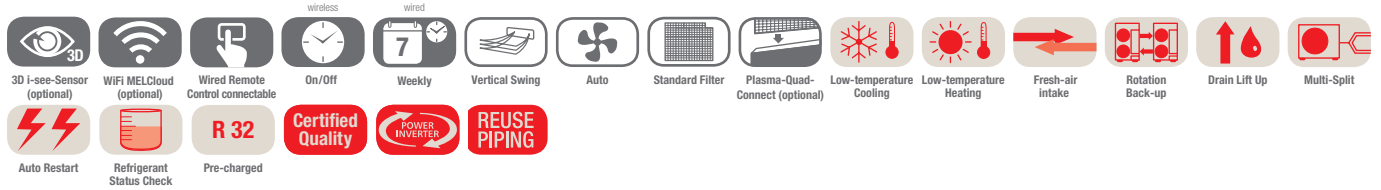| Indoor units | | PLA-ZM35EA | PLA-ZM50EA | PLA-ZM60EA | PLA-ZM71EA | PLA-ZM100EA | PLA-ZM125EA | PLA-ZM140EA |
|---|---|---|---|---|---|---|---|---|
| Air volume (m³ / h) | L / M1 / M2 / H | 660/780/900/960 | 720/840/960/1080 | 720/840/960/1080 | 1020/1140/1260/1380 | 1140/1320/1500/1680 | 1260/1440/1560/1740 | 1440/1560/1740/1920 |
| Sound level (dB(A)) | L / H | 26/31 | 27/32 | 27/32 | 28/36 | 31/40 | 33/41 | 36/44 |
| Dimensions (grille) (mm)** | W / D / H | 840 (950)/840 (950)/258 (40) | 840 (950)/840 (950)/258 (40) | 840 (950)/840 (950)/258 (40) | 840 (950)/840 (950)/258 (40) | 840 (950)/840 (950)/298 (40) | 840 (950)/840 (950)/298 (40) | 840 (950)/840 (950)/298 (40) |
| Weight (incl. grille) (kg) | | 21 (26) | 21 (26) | 21 (26) | 24 (29) | 26 (31) | 26 (31) | 26 (31) |
| Outdoor units | | PUZ-ZM35VKA | PUZ-ZM50VKA | PUZ-ZM60VHA | PUZ-ZM71VHA | PUZ-ZM100YKA | PUZ-ZM125YKA | PUZ-ZM140YKA |
| Airflow (m³ / h) | | 2700 | 2700 | 3300 | 3300 | 6600 | 7200 | 7200 |
| Sound pressure level cooling / heating (dB(A)) | | 44/46 | 44/46 | 47/49 | 47/49 | 49/51 | 50/52 | 50/52 |
| Dimensions (mm) | W / D / H | 809/300/630 | 809/300/630 | 950/355/943 | 950/355/943 | 1.050/370/1.338 | 1.050/370/1.338 | 1.050/370/1.338 |
| Weight (kg) | | 46 | 46 | 70 | 70 | 123 | 125 | 131 |
| **Refrigeration data** | | | | | | | | |
| Total pipe length (m) | | 50 | 50 | 55 | 55 | 100 | 100 | 100 |
| Max. height difference (m) | | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Refrigerant type / refrigerant quantity (kg) / max. quantity (kg) | | R32/2.0/2.3 | R32/2.0/2.3 | R32/2.8/3.6 | R32/2.8/3.6 | R32/4.0/6.8 | R32/4.0/6.8 | R32/4.0/6.8 |
| GWP / CO₂ equivalent (t) / CO₂ equivalent max. (t) | | 675/1.35/1.55 | 675/1.35/1.55 | 675/1.89/2.43 | 675/1.89/2.43 | 675/2.70/4.59 | 675/2.70/4.59 | 675/2.70/4.59 |
| Refrigerant pre-filling for (m) | | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Refrigerant pipe size Ø (mm) | fl. | 6 | 6 | 10 | 10 | 10 | 10 | 10 |
| | s. | 12 | 12 | 16 | 16 | 16 | 16 | 16 |
| **Electrical data** | | | | | | | | |
| Voltage supply (V, phase, Hz) | | 220 – 240, 1, 50 | 220 – 240, 1, 50 | 220 – 240, 1, 50 | 220 – 240, 1, 50 | 380 – 415, 3+N, 50 | 380 – 415, 3+N, 50 | 380 – 415, 3+N, 50 |
| Operating current cooling / heating (A) | | 3.17/3.53 | 4.8/5.85 | 5.66/6.77 | 6.7/7.46 | 3.08/3.74 | 4.91/5.36 | 5.34/6.27 |
| Recommended breaker size (A) | | 16 | 16 | 25 | 25 | 16 | 16 | 16 |

\* Grille PLP-6EA, remote control not included in scope of delivery
\*\* Visible height of grille

Sound pressure level of the indoor unit measured centrically at a distance of 1.5 m below the unit in cooling mode
Outdoor units 100 / 125 / 140 are also available in 230V / 1Ph versions on request.
Energy efficiency class on a scale from A+++ to D

Our air conditioning equipment and heat pumps contain fluorinated greenhouse gases R410A, R134a, R32.
For further information please see the corresponding operation manual.

| PLA-ZM | PUHZ-SHW112–140VHA-A / YHA-A |
|---|---|

# 4-way ceiling cassette
## Single-split / Zubadan inverter / Cooling and heating

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3D i-see-Sensor (optional) | WiFi MELCloud (optional) | Wired Remote Control connectable | On/Off | Weekly | Vertical Swing | Auto | Plasma-Quad-Connect (optional) | Standard Filter | Low-temperature Cooling | Low-temperature Heating | Fresh-air intake | Rotation Back-up | Drain Lift Up | Multi-Split |

| Auto Restart | Refrigerant Status Check | Pre-charged | Certified Quality | ZUBADAN | REUSE PIPING |
|---|---|---|---|---|---|
| | | R 410 A | | | |

### PLA-ZM ceiling cassette, cooling/heating, no remote control included

| Indoor units | | PLA-ZM100EA | PLA-ZM100EA | PLA-ZM125EA |
|---|---|---|---|---|
| Grille for cable remote control | | PLP-6EA | PLP-6EA | PLP-6EA |
| Grille for infrared remote control | | PLP-6EALM | PLP-6EALM | PLP-6EALM |
| Outdoor units | | PUHZ-SHW112VHA-A | PUHZ-SHW112YHA-A | PUHZ-SHW140YHA-A |
| Cooling | Cooling capacity (kW) | 10.0 (4.9–11.4) | 10.0 (4.9–11.4) | 12.5 (5.5–14.0) |
| | Power consumption (kW) | 2.786 | 2.786 | 4.449 |
| | SEER | 5.5 | 5.5 | 5.1 |
| | Energy efficiency class | A | A | – |
| | Application range (°C) | −15~+46 | −15~+46 | −15~+46 |
| Heating | Heating capacity (kW) | 11.2 (4.5–14.0) | 11.2 (4.5–14.0) | 14.0 (5.0–16.0) |
| | Heating capacity to -15 °C (kW) | 11.2 | 11.2 | 14.0 |
| | Power consumption (kW) | 2.667 | 2.667 | 3.879 |
| | SCOP | 4.0 | 4.0 | 3.5 |
| | Energy efficiency class | A+ | A+ | – |
| | Application range (°C) | −25~+21 | −25~+21 | −25~+21 |

| Indoor units | | PLA-ZM100EA | PLA-ZM100EA | PLA-ZM125EA |
|---|---|---|---|---|
| Air volume (m³/h) | L / M1 / M2 / H | 1140 / 1320 / 1500 / 1680 | 1140 / 1320 / 1500 / 1680 | 1260 / 1380 / 1500 / 1680 |
| Sound level (dB(A)) | L / H | 31 / 40 | 31 / 40 | 33 / 41 |
| Dimensions (grille) (mm)* | W / D / H | 840 (950) / 840 (950) / 298 (40) | 840 (950) / 840 (950) / 298 (40) | 840 (950) / 840 (950) / 298 (40) |
| Weight (incl. grille) (kg) | | 26 (31) | 26 (31) | 26 (31) |
| Outdoor units | | PUHZ-SHW112VHA-A | PUHZ-SHW112YHA-A | PUHZ-SHW140YHA-A |
| Airflow (m³/h) | | 6000 | 6000 | 6000 |
| Sound pressure level cooling / heating (dB(A)) | | 51 / 52 | 51 / 52 | 51 / 52 |
| Dimensions (mm) | W / D / H | 950 / 330 / 1.350 | 950 / 330 / 1.350 | 950 / 330 / 1.350 |
| Weight (kg) | | 120 | 134 | 134 |
| Refrigeration data | | | | |
| Total pipe length (m) | | 75 | 75 | 75 |
| Max. height difference (m) | | 30 | 30 | 30 |
| Refrigerant type / refrigerant quantity (kg) / max. quantity (kg) GWP / CO$_2$ equivalent (t) / CO$_2$ equivalent max. (t) | | R410A / 5.5 / 7.9 2088 / 11.49 / 16.51 | R410A / 5.5 / 7.9 2088 / 11.49 / 16.51 | R410A / 5.5 / 7.9 2088 / 11.49 / 16.51 |
| Refrigerant pre-filling for (m) | | 30 | 30 | 30 |
| Refrigerant pipe size Ø (mm) | fl. | 10 | 10 | 10 |
| | s. | 16 | 16 | 16 |
| Electrical data | | | | |
| Voltage supply (V, phase, Hz) | | 230, 1, 50 | 380–415, 3+N, 50 | 380–415, 3+N, 50 |
| Operating current cooling / heating (A) | | 11.1 / 11.28 | 3.69 / 3.74 | 4.92 / 4.91 |
| Recommended breaker size (A) | | 40 | 16 | 16 |

\* Visible height of grille

\*\* Grille PLP-6EA, remote control not included in scope of delivery

Sound pressure level of the indoor unit measured at a distance of 1.5 m below the unit
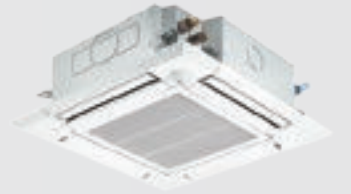
Energy efficiency class on a scale from A+++ to D

Our air conditioning equipment and heat pumps contain fluorinated greenhouse gases R410A, R134a, R32.

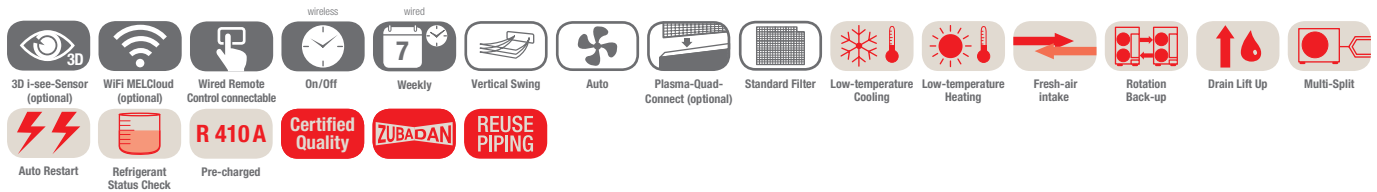For further information please see the corresponding operation manual.

| SUZ-M35VA | SUZ-M50VA | SUZ-M60 / 71VA | PUZ-M100 – 140VKA / YKA | PLA-M |
|---|---|---|---|---|

R32

# 4-way ceiling cassette
## Single-split / standard inverter / Cooling and heating

| 3D i-see-Sensor (optional) | WiFi MELCloud (optional) | Wired Remote Control connectable | On/Off | Weekly | Vertical Swing | Auto | Standard Filter | Plasma-Quad-Connect (optional) | Low-temperature Cooling | Low-temperature Heating | Fresh-air intake | Rotation Back-up | Drain Lift Up | Multi-Split |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Auto Restart | Pre-charged | Certified Quality | STANDARD INVERTER | REUSE PIPING |
|---|---|---|---|---|

R 32

## PLA-M ceiling cassette, cooling / heating, no remote control included

| Indoor units | | PLA-M35EA | PLA-M50EA | PLA-M60EA | PLA-M71EA | PLA-M100EA | PLA-M125EA | PLA-M140EA |
|---|---|---|---|---|---|---|---|---|
| Grille for cable remote control | | PLP-6EA | PLP-6EA | PLP-6EA | PLP-6EA | PLP-6EA | PLP-6EA | PLP-6EA |
| Grille for infrared remote control | | PLP-6EALM | PLP-6EALM | PLP-6EALM | PLP-6EALM | PLP-6EALM | PLP-6EALM | PLP-6EALM |
| Designation of outdoor units 230 V | | SUZ-M35VA | SUZ-M50VA | SUZ-M60VA | SUZ-M71VA | PUZ-M100VKA | PUZ-M125VKA | PUZ-M140VKA |
| Designation of outdoor units 400 V | | – | – | – | – | PUZ-M100YKA | PUZ-M125YKA | PUZ-M140YKA |
| Cooling | Cooling capacity (kW) | 3.6 (0.8 – 3.9) | 5.5 (1.2 – 5.6) | 6.1 (1.6 – 6.3) | 7.1 (2.2 – 8.1) | 9.5 (4.0 – 10.6) | 12.1 (5.8 – 13.0) | 13.4 (5.8 – 14.1) |
| | Power consumption (kW) | 0.90 | 1.61 | 1.840 | 1.91 | 2.71 | 4.01 | 4.96 |
| | SEER | 7.4 | 6.7 | 6.6 | 7.5 | 7.0 | – | – |
| | Energy efficiency class | A++ | A++ | A++ | A++ | A++ | – | – |
| | Application range (°C) | −10 ~ +46 | −15 ~ +46 | −15 ~ +46 | −15 ~ +46 | −15 ~ +46 | −15 ~ +46 | −15 ~ +46 |
| Heating | Heating capacity (kW) | 4.1 (1.0 – 5.0) | 6.0 (1.5 – 7.2) | 7.0 (1.6 – 8.0) | 8.0 (2.0 – 10.2) | 11.2 (2.8 – 12.5) | 13.5 (4.1 – 15.0) | 15 (4.2 – 15.8) |
| | Power consumption (kW) | 0.97 | 1.73 | 1.84 | 2.21 | 3.01 | 3.63 | 4.39 |
| | SCOP | 4.7 | 4.1 | 4.4 | 4.5 | 4.6 | – | – |
| | Energy efficiency class | A+ | A+ | A+ | A++ | A++ | – | – |
| | Application range (°C) | −10 ~ +24 | −10 ~ +24 | −10 ~ +24 | −10 ~ +24 | −15 ~ +21 | −15 ~ +21 | −15 ~ +21 |

| Indoor units | | PLA-M35EA | PLA-M50EA | PLA-M60EA | PLA-M71EA | PLA-M100EA | PLA-M125EA | PLA-M140EA |
|---|---|---|---|---|---|---|---|---|
| Air volume (m³/h) | L / M1 / M2 / H | 660 / 780 / 900 / 960 | 720 / 840 / 960 / 1080 | 720 / 840 / 960 / 1080 | 840 / 1020 / 1140 / 1260 | 1140 / 1380 / 1560 / 1740 | 1260 / 1500 / 1680 / 1860 | 1440 / 1560 / 1740 / 1920 |
| Sound level (dB(A)) | N / M1 / M2 / H | 26 / 28 / 29 / 31 | 27 / 29 / 31 / 32 | 27 / 29 / 31 / 32 | 28 / 30 / 32 / 34 | 31 / 34 / 37 / 40 | 33 / 37 / 41 / 44 | 36 / 39 / 42 / 44 |
| Dimensions (grille) (mm)* | W / D / H | 840 (950) / 840 (950) / 258 (40) | 840 (950) / 840 (950) / 258 (40) | 840 (950) / 840 (950) / 258 (40) | 840 (950) / 840 (950) / 258 (40) | 840 (950) / 840 (950) / 298 (40) | 840 (950) / 840 (950) / 298 (40) | 840 (950) / 840 (950) / 298 (40) |
| Weight (incl. grille) (kg) | | 19 (24) | 19 (24) | 21 (26) | 21 (26) | 24 (29) | 26 (31) | 26 (31) |
| Outdoor units | | SUZ-M35VA | SUZ-M50VA | SUZ-M60VA | SUZ-M71VA | PUZ-M100V-KA / YKA | PUZ-M125 VKA / YKA | PUZ-M140 VKA / YKA |
| Airflow cooling / heating (m³/h) | | 2058 / 1962 | 2748 / 2622 | 3006 / 3006 | 3006 / 3006 | 4740 / 4740 | 5160 / 5520 | 5160 / 5520 |
| Sound pressure level cooling / heating (dB(A)) | | 48 / 48 | 48 / 49 | 49 / 51 | 49 / 51 | 51 / 54 | 54 / 56 | 55 / 57 |
| Dimensions (mm) | W / D / H | 800 / 285 / 550 | 800 / 285 / 714 | 840 / 330 / 880 | 840 / 330 / 880 | 1.050 / 330 / 981 | 1.050 / 330 / 981 | 1.050 / 330 / 981 |
| Weight 230 V / 400 V (kg) | | 35 / – | 41 / – | 54 / – | 55 / – | 76 / 78 | 84 / 85 | 84 / 85 |
| **Refrigeration data** | | | | | | | | |
| Total pipe length (m) | | 20 | 30 | 30 | 30 | 55 | 65 | 65 |
| Max. height difference (m) | | 12 | 30 | 30 | 30 | 30 | 30 | 30 |
| Refrigerant type / refrigerant quantity (kg) / max. quantity (kg) | | R32 / 0.90 / 1.16 | R32 / 1.20 / 1.66 | R32 / 1.25 / 1.71 | R32 / 1.45 / 2.37 | R32 / 3.10 / 4.10 | R32 / 3.60 / 5.00 | R32 / 3.60 / 5.00 |
| GWP / $CO_2$ equivalent (t) / $CO_2$ equivalent max. (t) | | 675 / 0.61 / 0.78 | 675 / 0.81 / 1.12 | 675 / 0.84 / 1.15 | 675 / 0.98 / 1.60 | 675 / 2.09 / 2.77 | 675 / 2.43 / 3.38 | 675 / 2.43 / 3.38 |
| Refrigerant pre-filling for (m) | | 7 | 7 | 7 | 7 | 30 | 30 | 30 |
| Refrigerant pipe size Ø (mm) | fl. | 6 | 6 | 6 | 10 | 10 | 10 | 10 |
| | s. | 10 | 12 | 16 | 16 | 16 | 16 | 16 |
| **Electrical data** | | | | | | | | |
| Voltage supply 230 V (V, phase, Hz) | | 220 – 240, 1, 50 | 220 – 240, 1, 50 | 220 – 240, 1, 50 | 220 – 240, 1, 50 | 220 – 240, 1, 50 | 220 – 240, 1, 50 | 220 – 240, 1, 50 |
| Voltage supply 400 V (V, phase, Hz) | | – | – | – | – | 380 – 415, 3+N, 50 | 380 – 415, 3+N, 50 | 380 – 415, 3+N, 50 |
| Operating current 230 V cooling / heating (A) | | 4.77 / 4.97 | 7.0 / 6.6 | 8.71 / 10.11 | 10.81 / 10.41 | 12.26 / 12.62 | 17.37 / 16.74 | 22.48 / 21.31 |
| Operating current 400 V cooling / heating (A) | | – | – | – | – | 4.78 / 5.05 | 6.18 / 6.09 | 7.92 / 7.58 |
| Recommended fuse size 230 V (A) | | 10 | 20 | 20 | 20 | 32 | 32 | 40 |
| Recommended fuse size 400 V (A) | | – | – | – | – | 16 | 16 | 16 |

\* Visible height of grille

\*\* Grille PLP-6EA, remote control not included in scope of delivery

Sound pressure level of the indoor unit measured centrically at a distance of 1.5 m below the unit
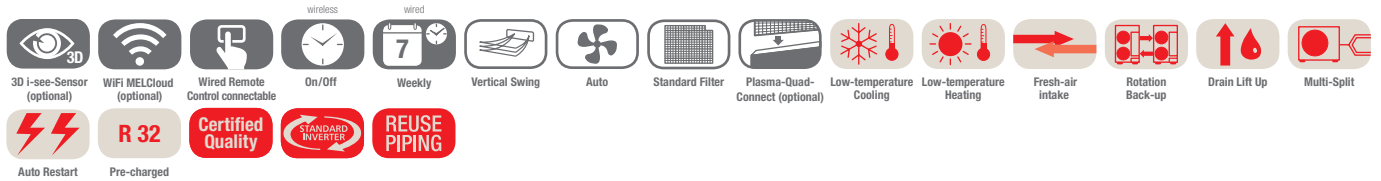Energy efficiency class on a scale from A+++ to D

Our air conditioning equipment and heat pumps contain fluorinated greenhouse gases R410A, R134a, R32.
For further information please see the corresponding operation manual.

## PCA-M suspended ceiling unit

### Highlights

- SCOP up to 4,4 / SEER up to 6,7
- Energy efficiency class up to A+ / A++
- Sound pressure level from 31 dB(A)

The versatile ceiling suspended unit is ideal for technical rooms with its excellent air distribution and extremely sensitive capacity. Special combinations with up to 100 % sensitive capacity are available.

**You will find more detailed information on the subject of technical room applications in the chapter IT / technical room solutions.**

### Design
- Modern housing in pure white
- Just 23 cm high

### Air quality
- Long-life filter
- High-efficiency filter
- Outside air connection



| | |
|---|---|
| Powerful | Gentle |
| Start of cooling/heating mode | Once room temperature is stabilised ... |
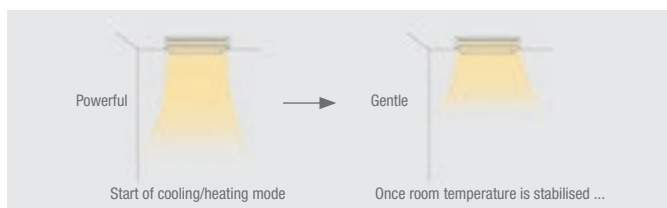
### Airflow control
- Automatic fan stage control
- 4 fan speeds
- Mode for high / low ceilings for the ideal upward airflow (up to 4.2 m) or in low rooms

### Comfort and control
- Automatic restart after power outage
- Rotation back-up function

### Installation and maintenance
- Easy installation
- Optional installation of condensate pump

### PCA-M71HA stainless steel suspended ceiling unit
- Size: 71
- Robust stainless steel unit
- High-performance oil mist filter (12 pcs. in scope of supply)
- Easy to clean
- Stainless steel housing and fins

### PCA-M suspended ceiling unit
- Rotation back-up function (with PUHZ & PUZ)
- High air throw
- High energy efficiency up to A++
- Highly sensitive cooling performance

### Optional high-efficiency filter
- Additional filtration of fine dust particles from the room air for PCA-M**KA units

### Choice of wired or infrared remote controller

### MELCloud Wi-Fi adapter (optional)

Accessories

| Type designation | Description | Quantity |
|---|---|---|
| PAC-YT52CRA | Wired remote control compact | 1 |
| PAR-40MAA | Wired remote control Deluxe | 1 |
| PAR-CT01MAA** | Wired remote controller with touchscreen | 1 |
| PAR-SL94B-E | Infrared remote control | 1 |
| PAC-SJ_DM-E* | Condensate pump | 1 |
| PAC-SH_KF-E* | High-Efficiency Filter | 1 |
| PAC-SG38KF-E | High-performance oil mist filter (replacement filter) | 12 |
| MAC-567IF-E | MELCloud Wi-Fi adapter | 1 |

\*  Varies according to the size of the unit. More detailed information can be found at the end of this section on the accessories pages.

\*\* Available in several versions Further information available in chapter controls

| PUZ-ZM35 / 50VKA | PUZ-ZM60 / 71VHA | PUZ-ZM100–140VKA / YKA | PCA-M35–140KA |

**R32**

# Ceiling suspended unit
## Single-split / power inverter / Cooling and heating

| WiFi MELCloud (optional) | Wired Remote Control connectable | On/Off | Weekly | Vertical Swing | Auto | Standard Filter | Low-temperature Cooling | Low-temperature Heating | Fresh-air intake | Rotation Back-up | Drain Lift Up (optional) | Multi-Split | Auto Restart | Refrigerant Status Check |

| R 32 Pre-charged | Certified Quality | POWER INVERTER | REUSE PIPING |

## PCA-M ceiling suspended units, cooling/heating, remote control not included in scope of delivery

| Indoor units | | PCA-M35KA | PCA-M50KA | PCA-M60KA | PCA-M71KA | PCA-M100KA | PCA-M125KA | PCA-M140KA |
|---|---|---|---|---|---|---|---|---|
| Outdoor units | | PUZ-ZM35VKA | PUZ-ZM50VKA | PUZ-ZM60VHA | PUZ-ZM71VHA | PUZ-ZM100YKA | PUZ-ZM125YKA | PUZ-ZM140YKA |
| Cooling | Cooling capacity (kW) | 3.6 (1.6–4.5) | 5.0 (2.3–5.6) | 6.1 (2.7–6.7) | 7.1 (3.3–8.1) | 9.5 (4.9–11.4) | 12.5 (5.5–14.0) | 13.4 (6.2–15.0) |
| | Power consumption (kW) | 0.83 | 1.25 | 1.52 | 1.83 | 2.32 | 3.85 | 3.94 |
| | SEER | 6.4 | 6.7 | 6.5 | 6.7 | 6.3 | 6.1 | 6.1 |
| | Energy efficiency class | A++ | A++ | A++ | A++ | A++ | – | – |
| | Application range (°C) | −15~+46 | −15~+46 | −15~+46 | −15~+46 | −15~+46 | −15~+46 | −15~+46 |
| Heating | Heating capacity (kW) | 4.1 (1.6–5.2) | 5.5 (2.5–6.6) | 7.0 (2.8–8.2) | 8.0 (3.5–10.2) | 11.2 (4.5–14.0) | 14.0 (5.0–16.0) | 16.0 (5.7–18.0) |
| | Power consumption (kW) | 1.02 | 1.36 | 1.75 | 2.16 | 3.02 | 3.95 | 4.43 |
| | SCOP | 4.0 | 4.2 | 4.1 | 4.2 | 4.3 | 4.3 | 4.4 |
| | Energy efficiency class | A+ | A+ | A+ | A+ | A+ | – | – |
| | Application range (°C) | −11~+21 | −11~+21 | −20~+21 | −20~+21 | −20~+21 | −20~+21 | −20~+21 |

| Indoor units | | PCA-M35KA | PCA-M50KA | PCA-M60KA | PCA-M71KA | PCA-M100KA | PCA-M125KA | PCA-M140KA |
|---|---|---|---|---|---|---|---|---|
| Air volume (m³/h) | L / M1 / M2 / H | 600/660/720/840 | 600/660/780/900 | 900/960/1020/1140 | 960/1020/1080/1200 | 1320/1440/1560/1680 | 1380/1500/1620/1740 | 1440/1560/1750/1920 |
| Sound level (dB(A)) | L / H | 31/39 | 32/40 | 33/40 | 35/41 | 37/43 | 39/45 | 41/48 |
| Dimensions (mm) | W/D/H | 960/680/230 | 960/680/230 | 1.280/680/230 | 1.280/680/230 | 1.600/680/230 | 1.600/680/230 | 1.600/680/230 |
| Weight (kg) | | 25 | 26 | 32 | 32 | 37 | 38 | 40 |
| Outdoor units | | PUZ-ZM35VKA | PUZ-ZM50VKA | PUZ-ZM60VHA | PUZ-ZM71VHA | PUZ-ZM100YKA | PUZ-ZM125YKA | PUZ-ZM140YKA |
| Airflow (m³/h) | | 2700 | 2700 | 3300 | 3300 | 6600 | 7200 | 7200 |
| Sound pressure level cooling/heating (dB(A)) | | 44/46 | 44/46 | 47/49 | 47/49 | 49/51 | 50/52 | 50/52 |
| Dimensions (mm) | W/D/H | 809/300/630 | 809/300/630 | 950/355/943 | 950/355/943 | 1.050/370/1.338 | 1.050/370/1.338 | 1.050/370/1.338 |
| Weight (kg) | | 46 | 46 | 70 | 70 | 123 | 125 | 131 |
| **Refrigeration data** | | | | | | | | |
| Total pipe length (m) | | 50 | 50 | 55 | 55 | 100 | 100 | 100 |
| Max. height difference (m) | | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Refrigerant type/refrigerant quantity (kg)/max. quantity (kg) | | R32/2.0/2.3 | R32/2.0/2.3 | R32/2.8/3.6 | R32/2.8/3.6 | R32/4.0/6.8 | R32/4.0/6.8 | R32/4.0/6.8 |
| GWP/CO₂ equivalent (t)/CO₂ equivalent max. (t) | | 675/1.35/1.55 | 675/1.35/1.55 | 675/1.89/2.43 | 675/1.89/2.43 | 675/2.70/4.59 | 675/2.70/4.59 | 675/2.70/4.59 |
| Refrigerant pre-filling for (m) | | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Refrigerant pipe size Ø (mm) | fl. | 6 | 6 | 10 | 10 | 10 | 10 | 10 |
| | s. | 12 | 12 | 16 | 16 | 16 | 16 | 16 |
| **Electrical data** | | | | | | | | |
| Voltage supply (V, phase, Hz) | | 220–240, 1, 50 | 220–240, 1, 50 | 220–240, 1, 50 | 220–240, 1, 50 | 380–415, 3+N, 50 | 380–415, 3+N, 50 | 380–415, 3+N, 50 |
| Operating current cooling/heating (A) | | 3.17/3.53 | 4.8/5.85 | 5.66/6.77 | 6.7/7.46 | 3.08/3.74 | 4.91/5.36 | 5.34/6.27 |
| Recommended breaker size (A) | | 16 | 16 | 25 | 25 | 16 | 16 | 16 |

Sound pressure level of the indoor unit measured 1 m in front of and 1 m below the unit
Outdoor units 100 / 125 / 140 are also available in 230V / 1Ph versions on request.
Energy efficiency class on a scale from A+++ to D

Our air conditioning equipment and heat pumps contain fluorinated greenhouse gases R410A, R134a, R32.
For further information please see the corresponding operation manual.

| PCA-M | SUZ-M35VA | SUZ-M50VA | SUZ-M60 / 71VA | PUZ-M100 – 140VKA / YKA |

**R32**

# Ceiling suspended unit
## Single-split / standard inverter / Cooling and heating

WiFi MELCloud (optional) | Wired Remote Control connectable | On/Off | Weekly | Vertical Swing | Auto | Standard Filter | Low-temperature Cooling | Low-temperature Heating | Fresh-air intake | Rotation Back-up | Drain Lift Up (optional) | Multi-Split | Auto Restart | Pre-charged

Certified Quality | STANDARD INVERTER | REUSE PIPING

## PCA-M ceiling suspended units, cooling / heating, remote control not included in scope of delivery

| Indoor units | | PCA-M35KA | PCA-M50KA | PCA-M60KA | PCA-M71KA | PCA-M100KA | PCA-M125KA | PCA-M140KA |
|---|---|---|---|---|---|---|---|---|
| Designation of outdoor units 230 V | | SUZ-M35VA | SUZ-M50VA | SUZ-M60VA | SUZ-M71VA | PUZ-M100VKA | PUZ-M125VKA | PUZ-M140VKA |
| Designation of outdoor units 400 V | | – | – | – | – | PUZ-M100YKA | PUZ-M125YKA | PUZ-M140YKA |
| Cooling | Cooling capacity (kW) | 3.6 (0.8 – 3.9) | 5.0 (1.5 – 5.6) | 6.1 (1.6 – 6.3) | 7.1 (2.2 – 8.1) | 9.5 (4.0 – 10.6) | 12.1 (5.7 – 13.0) | 13.4 (5.7 – 14.1) |
| | Power consumption (kW) | 0.90 | 1.51 | 1.64 | 1.97 | 2.94 | 4.01 | 5.36 |
| | SEER | 6.3 | 6.0 | 6.4 | 6.5 | 6.0 | – | – |
| | Energy efficiency class | A++ | A+ | A++ | A++ | A+ | – | – |
| | Application range (°C) | −10~+46 | −15~+46 | −15~+46 | −15~+46 | −15~+46 | −15~+46 | −15~+46 |
| Heating | Heating capacity (kW) | 4.1 (1.0 – 5.0) | 6.0 (1.5 – 7.2) | 7.0 (1.6 – 8.0) | 8.0 (2.0 – 10.2) | 11.2 (2.8 – 12.5) | 13.5 (4.1 – 15.0) | 15.0 (4.2 – 15.8) |
| | Power consumption (kW) | 1.02 | 1.61 | 1.75 | 2.21 | 3.28 | 3.95 | 4.28 |
| | SCOP | 4.0 | 4.1 | 4.1 | 4.1 | 4.1 | – | – |
| | Energy efficiency class | A+ | A+ | A+ | A+ | A+ | – | – |
| | Application range (°C) | −10~+24 | −10~+24 | −10~+24 | −10~+24 | −15~+21 | −15~+21 | −15~+21 |

| Indoor units | | PCA-M35KA | PCA-M50KA | PCA-M60KA | PCA-M71KA | PCA-M100KA | PCA-M125KA | PCA-M140KA |
|---|---|---|---|---|---|---|---|---|
| Air volume (m³/h) | L / M1 / M2 / H | 600/660/720/840 | 600/660/780/900 | 900/960/1020/1140 | 960/1020/1080/1200 | 1320/1440/1560/1680 | 1380/1500/1620/1740 | 1440/1560/1740/1920 |
| Sound level (dB(A)) | N / M1 / M2 / H | 31/33/36/39 | 32/34/37/40 | 33/35/37/40 | 35/37/39/41 | 37/39/41/43 | 39/41/43/45 | 41/43/45/48 |
| Dimensions (mm) | W / D / H | 960/680/230 | 960/680/230 | 1.280/680/230 | 1.280/680/230 | 1.600/680/230 | 1.600/680/230 | 1.600/680/230 |
| Weight (kg) | | 25 | 26 | 32 | 32 | 37 | 38 | 40 |
| Outdoor units | | SUZ-M35VA | SUZ-M50VA | SUZ-M60VA | SUZ-M71VA | PUZ-M100VKA / YKA | PUZ-M125VKA / YKA | PUZ-M140VKA / YKA |
| Airflow cooling / heating (m³/h) | | 2058/1962 | 2748/2622 | 3006/3006 | 3006/3006 | 4740/4740 | 5160/5520 | 5160/5520 |
| Sound pressure level cooling / heating (dB(A)) | | 48/48 | 48/49 | 49/51 | 49/51 | 51/54 | 54/56 | 55/57 |
| Dimensions (mm) | W / D / H | 800/285/550 | 800/285/714 | 840/330/880 | 840/330/880 | 1.050/330/981 | 1.050/330/981 | 1.050/330/981 |
| Weight 230 V / 400 V (kg) | | 35/− | 41/− | 54/− | 55/− | 76/78 | 84/85 | 84/85 |
| Refrigeration data | | | | | | | | |
| Total pipe length (m) | | 20 | 30 | 30 | 30 | 55 | 65 | 65 |
| Max. height difference (m) | | 12 | 30 | 30 | 30 | 30 | 30 | 30 |
| Refrigerant type / refrigerant quantity (kg) / max. quantity (kg) | | R32/0.90/1.16 | R32/1.20/1.66 | R32/1.25/1.71 | R32/1.45/2.37 | R32/3.10/4.10 | R32/3.60/5.00 | R32/3.60/5.00 |
| GWP / $CO_2$ equivalent (t) / $CO_2$ equivalent max. (t) | | 675/0.61/0.78 | 675/0.81/1.12 | 675/0.84/1.15 | 675/0.98/1.60 | 675/2.09/2.77 | 675/2.43/3.38 | 675/2.43/3.38 |
| Refrigerant pre-filling for (m) | | 7 | 7 | 7 | 7 | 30 | 30 | 30 |
| Refrigerant pipe size Ø (mm) | fl. | 6 | 6 | 6 | 10 | 10 | 10 | 10 |
| | s. | 10 | 12 | 16 | 16 | 16 | 16 | 16 |
| Electrical data | | | | | | | | |
| Voltage supply 230 V (V, phase, Hz) | | 220–240, 1, 50 | 220–240, 1, 50 | 220–240, 1, 50 | 220–240, 1, 50 | 220–240, 1, 50 | 220–240, 1, 50 | 220–240, 1, 50 |
| Voltage supply 400 V (V, phase, Hz) | | – | – | – | – | 380–415, 3+N, 50 | 380–415, 3+N, 50 | 380–415, 3+N, 50 |
| Operating current 230 V cooling / heating (A) | | 4.77/4.97 | 7.0/6.6 | 8.71/10.11 | 10.81/10.41 | 12.26/12.62 | 17.37/16.74 | 22.48/21.31 |
| Operating current 400 V cooling / heating (A) | | – | – | – | – | 4.78/5.05 | 6.18/6.09 | 7.92/7.58 |
| Recommended fuse size 230 V (A) | | 10 | 20 | 20 | 20 | 32 | 32 | 40 |
| Recommended fuse size 400 V (A) | | – | – | – | – | 16 | 16 | 16 |

Sound pressure level of the indoor unit measured 1 m in front of and 1 m below the unit
Energy efficiency class on a scale from A+++ to D

Our air conditioning equipment and heat pumps contain fluorinated greenhouse gases R410A, R134a, R32.
For further information please see the corresponding operation manual.

| PUZ-ZM71VHA | PCA-M71HA |

**R32**

# Stainless steel ceiling suspended unit
## Single-split / power inverter / Cooling and heating

| WiFi MELCloud (optional) | Wired Remote Control connectable | Weekly | Oil-Mist Filter | Low-temperature Cooling | Low-temperature Heating | Fresh-air intake | Rotation Back-up | Multi-Split | Auto Restart | Refrigerant Status Check | R 32 | Certified Quality | POWER INVERTER |

## PCA-M stainless steel ceiling suspended units, cooling/heating, no remote control included

| Indoor units | | PCA-M71HA |
|---|---|---|
| **Outdoor units** | | **PUZ-ZM71VHA** |
| Cooling | Cooling capacity (kW) | 7.1 (3.3 – 8.1) |
| | Power consumption (kW) | 2.02 |
| | SEER | 5.6 |
| | Energy efficiency class | A+ |
| | Application range (°C) | −15~+46 |
| Heating | Heating capacity (kW) | 7.6 (3.5 – 10.2) |
| | Power consumption (kW) | 2.17 |
| | SCOP | 3.9 |
| | Energy efficiency class | A |
| | Application range (°C) | −20~+21 |

| Indoor units | | PCA-M71HA |
|---|---|---|
| Air volume (m³/h) | L / M1 / M2 / H | 900 – 1080 |
| Sound level (dB(A)) | L / H | 37 / 39 |
| Dimensions (mm) | W / D / H | 1.136 / 650 / 280 |
| Weight (kg) | | 42 |
| **Outdoor units** | | **PUZ-ZM71VHA** |
| Airflow (m³/h) | | 3300 |
| Sound pressure level cooling / heating (dB(A)) | | 47 / 49 |
| Dimensions (mm) | W / D / H | 950 / 330 (+25) / 943 |
| Weight (kg) | | 70 |
| **Refrigeration data** | | |
| Total pipe length (m) | | 55 |
| Max. height difference (m) | | 30 |
| Refrigerant type / refrigerant quantity (kg) / max. quantity (kg) | | R32 / 2.8 / 3.6 |
| GWP / $CO_2$ equivalent (t) / $CO_2$ equivalent max. (t) | | 675 / 1.89 / 2.43 |
| Refrigerant pre-filling for (m) | | 30 |
| Refrigerant pipe size Ø (mm) | fl. | 10 |
| | s. | 16 |
| **Electrical data** | | |
| Voltage supply (V, phase, Hz) | | 220 – 240, 1, 50 |
| Operating current cooling / heating (A) | | 7.63 / 8.65 |
| Recommended breaker size (A) | | 25 |

Sound pressure level of the indoor unit measured 1 m in front of and 1 m below the unit
Energy efficiency class on a scale from A+++ to D

Our air conditioning equipment and heat pumps contain fluorinated greenhouse gases R410A, R134a, R32.
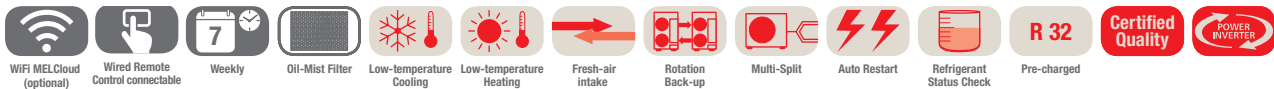For further information please see the corresponding operation manual.

## Wall mounted unit PKA-M

### Highlights

- SCOP up to 4,3 / SEER up to 6,5
- Energy efficiency class up to A+ / A++
- Sound pressure level from 36 dB(A)



800 mm

Lifting pump

Indoor unit
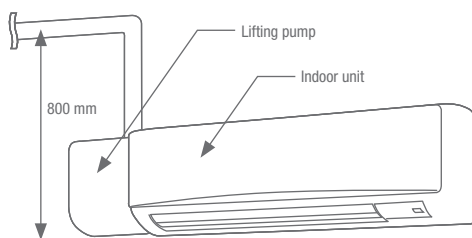
The powerful and reliable wall-mounted unit is easy to install and service.

**Airflow control**
- Automatic fan stage control
- 2, 3 or 4 fan speeds
- Quiet operation

**Filter**
- Air purification filter
- Plasma Quad Connect filter (optional)*

**Comfort and control**
- Optional: Wired remote control with weekly timer
- Automatic restart after power outage
- Rotation back-up function as standard

**Installation and maintenance**
- Installation up on the wall
- Optional: condensate pump with head of up to 80 cm

**Infrared remote controller included in scope of supply**

**Wired remote controller optional**

**MELCloud Wi-Fi adapter (optional)**

\* With the Plasma Quad Connect filter, planning must include additional space above the wall-mounted unit (+ approx. 110 mm).

### Accessories

| Type designation | Description | Quantity |
|---|---|---|
| PAC-SH29TC-E | Connecting plug for cable remote control | 1 |
| PAC-YT52CRA | Wired remote control compact | 1 |
| PAR-40MAA | Wired remote control Deluxe | 1 |
| PAR-CT01MAA* | Wired remote controller with touchscreen | 1 |
| MAC-567IF-E | MELCloud Wi-Fi adapter | 1 |
| MAC-100FT-E | Plasma Quad Connect (available from May 2021) | 1 |

\* Available in several versions. Further information available in chapter controls

PUZ-ZM35/50VKA | PUZ-ZM60/71VHA | PUZ-ZM100VKA/YKA | PAR-SL97A-E | PKA-M35/50LAL | PKA-M60−100KAL

# Wall mounted units
## Single-split/power inverter/Cooling and heating

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WiFi MELCloud (optional) | Wired Remote Control connectable (optional) | On/Off | Weekly | Vertical Swing | Auto | Standard Filter | Plasma-Quad-Connect (optional) | Low-temperature Cooling | Low-temperature Heating | Rotation Back-up | Multi-Split | Auto Restart | Refrigerant Status Check | Pre-charged |

Drain Lift Up (optional) | Certified Quality | POWER INVERTER | REUSE PIPING

## PKA-M wall mounted units, cooling/heating, infrared remote control included in scope of delivery

| Indoor units | | PKA-M35LAL | PKA-M50LAL | PKA-M60KAL | PKA-M71KAL | PKA-M100KAL |
|---|---|---|---|---|---|---|
| Outdoor units | | PUZ-ZM35VKA | PUZ-ZM50VKA | PUZ-ZM60VHA | PUZ-ZM71VHA | PUZ-ZM100YKA |
| Cooling | Cooling capacity (kW) | 3.6 (1.6−4.5) | 4.6 (2.3−5.6) | 6.1 (2.7−6.7) | 7.1 (3.3−8.1) | 9.5 (4.9−11.4) |
| | Power consumption (kW) | 0.87 | 1.24 | 1.56 | 1.86 | 2.41 |
| | SEER | 6.3 | 6.4 | 6.8 | 6.8 | 6.4 |
| | Energy efficiency class | A++ | A++ | A++ | A++ | A++ |
| | Application range (°C) | −15~+46 | −15~+46 | −15~+46 | −15~+46 | −15~+46 |
| Heating | Heating capacity (kW) | 4.1 (1.6−5.2) | 5.0 (2.5−7.3) | 7.0 (2.8−8.2) | 8.0 (3.5−10.2) | 11.2 (4.5−14.0) |
| | Power consumption (kW) | 1.04 | 1.35 | 1.73 | 2.12 | 3.10 |
| | SCOP | 4.0 | 4.1 | 4.2 | 4.3 | 4.4 |
| | Energy efficiency class | A+ | A+ | A+ | A+ | A+ |
| | Application range (°C) | −11~+21 | −11~+21 | −20~+21 | −20~+21 | −20~+21 |

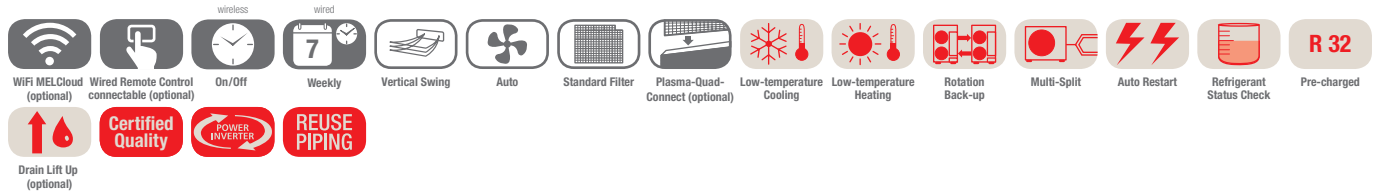| Indoor units | | PKA-M35LAL | PKA-M50LAL | PKA-M60KAL | PKA-M71KAL | PKA-M100KAL |
|---|---|---|---|---|---|---|
| Air volume (m³/h) | L/M1/M2/H | 540/630/720 | 540/630/720 | 1080/1200/1320 | 1080/1200/1320 | 1200/1380/1560 |
| Sound level (dB(A)) | L/H | 36/43 | 36/43 | 39/45 | 39/45 | 41/49 |
| Dimensions (mm) | W/D/H | 898/249/295 | 898/249/295 | 1.170/295/365 | 1.170/295/365 | 1.170/295/365 |
| Weight (kg) | | 13 | 13 | 21 | 21 | 21 |
| Outdoor units | | PUZ-ZM35VKA | PUZ-ZM50VKA | PUZ-ZM60VHA | PUZ-ZM71VHA | PUZ-ZM100YKA |
| Airflow (m³/h) | | 2700 | 2700 | 3300 | 3300 | 6600 |
| Sound pressure level cooling/heating (dB(A)) | | 44/46 | 44/46 | 47/49 | 47/49 | 49/51 |
| Dimensions (mm) | W/D/H | 809/300/630 | 809/300/630 | 950/355/943 | 950/355/943 | 1.050/370/1.338 |
| Weight (kg) | | 46 | 46 | 70 | 70 | 123 |
| Refrigeration data | | | | | | |
| Total pipe length (m) | | 50 | 50 | 55 | 55 | 100 |
| Max. height difference (m) | | 30 | 30 | 30 | 30 | 30 |
| Refrigerant type/refrigerant quantity (kg)/max. quantity (kg) | | R32/2.0/2.3 | R32/2.0/2.3 | R32/2.8/3.6 | R32/2.8/3.6 | R32/4.0/6.8 |
| GWP/CO$_2$ equivalent (t)/CO$_2$ equivalent max. (t) | | 675/1.35/1.55 | 675/1.35/1.55 | 675/1.89/2.43 | 675/1.89/2.43 | 675/2.70/4.59 |
| Refrigerant pre-filling for (m) | | 30 | 30 | 30 | 30 | 30 |
| Refrigerant pipe size Ø (mm) | fl. | 6 | 6 | 10 | 10 | 10 |
| | s. | 12 | 12 | 16 | 16 | 16 |
| Electrical data | | | | | | |
| Voltage supply (V, phase, Hz) | | 220−240, 1, 50 | 220−240, 1, 50 | 220−240, 1, 50 | 220−240, 1, 50 | 380−415, 3+N, 50 |
| Operating current cooling/heating (A) | | 3.17/3.53 | 4.8/5.85 | 5.66/6.77 | 6.7/7.46 | 3.08/3.74 |
| Recommended breaker size (A) | | 16 | 16 | 25 | 25 | 16 |

Sound pressure level of the indoor unit measured 1 m in front of and 1 m below the unit
Outdoor units 100 / 125 / 140 are also available in 230V / 1Ph versions on request.
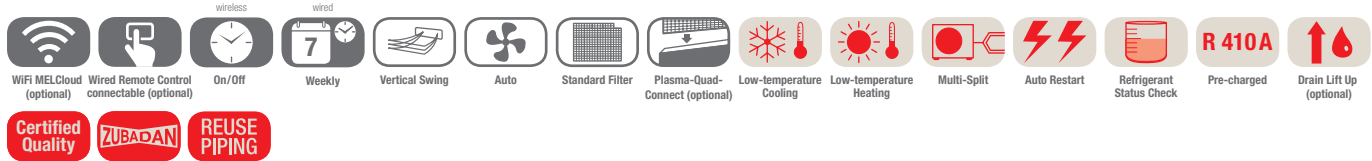Energy efficiency class on a scale from A+++ to D

Our air conditioning equipment and heat pumps contain fluorinated greenhouse gases R410A, R134a, R32.
For further information please see the corresponding operation manual.

| PKA-M KAL | PAR-SL97A-E | PUHZ-SHW112VHA-A / YHA-A |

# Wall mounted units
## Single-split / Zubadan inverter / Cooling and heating



WiFi MELCloud (optional) — Wired Remote Control connectable (optional) — On/Off — Weekly — Vertical Swing — Auto — Standard Filter — Plasma-Quad-Connect (optional) — Low-temperature Cooling — Low-temperature Heating — Multi-Split — Auto Restart — Refrigerant Status Check — R 410A Pre-charged — Drain Lift Up (optional)

Certified Quality — ZUBADAN — REUSE PIPING

## PKA-M wall mounted units, cooling / heating, infrared remote control included in scope of delivery

| Indoor units | | PKA-M100KAL | PKA-M100KAL |
|---|---|---|---|
| Outdoor units | | PUHZ-SHW112VHA-A | PUHZ-SHW112YHA-A |
| Cooling | Cooling capacity (kW) | 10.0 (4.9–11.4) | 10.0 (4.9–11.4) |
| | Power consumption (kW) | 2.924 | 2.924 |
| | SEER | 5.3 | 5.3 |
| | Energy efficiency class | A | A |
| | Application range (°C) | −15~+46 | −15~+46 |
| Heating | Heating capacity (kW) | 11.2 (4.5–14.0) | 11.2 (4.5–14.0) |
| | Heating capacity to -15 °C (kW) | 11.2 (4.5–14.0) | 11.2 (4.5–14.0) |
| | Power consumption (kW) | 3.103 | 3.103 |
| | SCOP | 3.8 | 3.8 |
| | Energy efficiency class | A | A |
| | Application range (°C) | −25~+21 | −25~+21 |

| Indoor units | | PKA-M100KAL | PKA-M100KAL |
|---|---|---|---|
| Air volume (m³/h) | L/M/H | 1200 / 1380 / 1560 | 1200 / 1380 / 1560 |
| Sound level (dB(A)) | L/H | 41 / 49 | 41 / 49 |
| Dimensions (mm) | W/D/H | 1.170 / 295 / 365 | 1.170 / 295 / 365 |
| Weight (kg) | | 21 | 21 |
| **Outdoor units** | | **PUHZ-SHW112VHA-A** | **PUHZ-SHW112YHA-A** |
| Airflow (m³/h) | | 6000 | 6000 |
| Sound pressure level cooling / heating (dB(A)) | | 51 / 52 | 51 / 52 |
| Dimensions (mm) | W/D/H | 950 / 330 / 1.350 | 950 / 330 / 1.350 |
| Weight (kg) | | 120 | 134 |
| **Refrigeration data** | | | |
| Total pipe length (m) | | 75 | 75 |
| Max. height difference (m) | | 30 | 30 |
| Refrigerant type / refrigerant quantity (kg) / max. quantity (kg) | | R410A / 5.5 / 7.9 | R410A / 5.5 / 7.9 |
| GWP / $CO_2$ equivalent (t) / $CO_2$ equivalent max. (t) | | 2088 / 11.49 / 16.51 | 2088 / 11.49 / 16.51 |
| Refrigerant pre-filling for (m) | | 30 | 30 |
| Refrigerant pipe size Ø (mm) | fl. | 10 | 10 |
| | s. | 16 | 16 |
| **Electrical data** | | | |
| Voltage supply (V, phase, Hz) | | 230, 1, 50 | 380–415, 3+N, 50 |
| Operating current cooling / heating (A) | | 11.1 / 11.28 | 3.69 / 3.74 |
| Recommended breaker size (A) | | 40 | 16 |

Sound pressure level of the indoor unit measured 1 m in front of and 1 m below the unit
Energy efficiency class on a scale from A+++ to D

Our air conditioning equipment and heat pumps contain fluorinated greenhouse gases R410A, R134a, R32.
For further information please see the corresponding operation manual.

| PUZ-M100VKA / YKA | | PAR-SL97A-E | PKA-M KAL |

**R32**

# Wall mounted units
## Single-split / standard inverter / Cooling and heating

| WiFi MELCloud (optional) | Wired Remote Control connectable (optional) | On/Off | Weekly | Vertical Swing | Auto | Standard Filter | Plasma-Quad-Connect (optional) | Low-temperature Cooling | Low-temperature Heating | Rotation Back-up | Multi-Split | Auto Restart | Pre-charged | Drain Lift Up (optional) |

Certified Quality    STANDARD INVERTER    REUSE PIPING

**PKA-M wall mounted units, cooling / heating, infrared remote control included in scope of delivery**

| Indoor units | | PKA-M100KAL |
|---|---|---|
| Designation of outdoor units 230 V | | PUZ-M100VKA |
| Designation of outdoor units 400 V | | PUZ-M100YKA |
| Cooling | Cooling capacity (kW) | 9.5 (4.0 – 10.6) |
| | Power consumption (kW) | 2.94 |
| | SEER | 5.8 |
| | Energy efficiency class | A+ |
| | Application range (°C) | −15~+46 |
| Heating | Heating capacity (kW) | 11.2 (2.8 – 12.5) |
| | Power consumption (kW) | 3.28 |
| | SCOP | 4.0 |
| | Energy efficiency class | A+ |
| | Application range (°C) | −15~+21 |

| Indoor units | | PKA-M100KAL |
|---|---|---|
| Air volume (m³ / h) | L / M / H | 1200 / 1380 / 1560 |
| Sound level (dB(A)) | L / M / H | 41 / 45 / 49 |
| Dimensions (mm) | W / D / H | 1.170 / 295 / 365 |
| Weight (kg) | | 21 |
| **Outdoor units** | | **PUZ-M100VKA / YKA** |
| Airflow cooling / heating (m³ / h) | | 4740 / 4740 |
| Sound pressure level cooling / heating (dB(A)) | | 51 / 54 |
| Dimensions (mm) | W / D / H | 1.050 / 330 / 981 |
| Weight 230 V / 400 V (kg) | | 76 / 78 |
| **Refrigeration data** | | |
| Total pipe length (m) | | 55 |
| Max. height difference (m) | | 30 |
| Refrigerant type / refrigerant quantity (kg) / max. quantity (kg) | | R32 / 3.10 / 4.10 |
| GWP / $CO_2$ equivalent (t) / $CO_2$ equivalent max. (t) | | 675 / 2.09 / 2.77 |
| Refrigerant pre-filling for (m) | | 30 |
| Refrigerant pipe size Ø (mm) | fl. | 10 |
| | s. | 16 |
| **Electrical data** | | |
| Voltage supply 230 V (V, phase, Hz) | | 220 – 240, 1, 50 |
| Voltage supply 400 V (V, phase, Hz) | | 380 – 415, 3+N, 50 |
| Operating current 230 V cooling / heating (A) | | 12.26 / 12.62 |
| Operating current 400 V cooling / heating (A) | | 4.78 / 5.05 |
| Recommended fuse size 230 V (A) | | 32 |
| Recommended fuse size 400 V (A) | | 16 |

Sound pressure level of the indoor unit measured 1 m in front of and 1 m below the unit
Energy efficiency class on a scale from A+++ to D

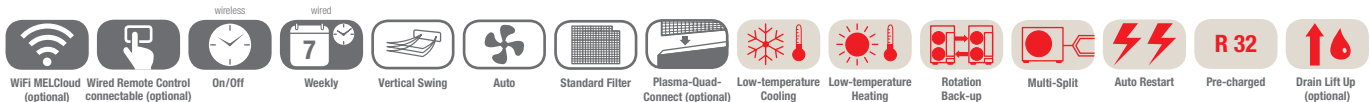Our air conditioning equipment and heat pumps contain fluorinated greenhouse gases R410A, R134a, R32.
For further information please see the corresponding operation manual.

## Floor mounted unit PSA-RP

### Highlights

- SCOP up to 4,4 / SEER up to 6,3
- Energy efficiency class up to A+ / A++
- Sound pressure level from 40 dB(A)
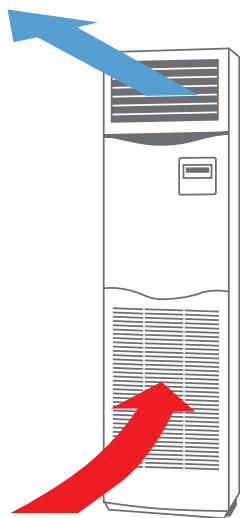
The unit is free-standing and is placed directly on the floor. No far-reaching changes are required. They are especially suitable for IT and technical facilities.

**Air quality**
- Long-life filter

**Air flow control**
- The advanced air guidance can flow both horizontally and vertically and ensures optimal air distribution
- Two fan strengths

**Comfort and control**
- Automatic restart after power outage
- Rotation back-up function as standard

**Installation and maintenance**
- Low depth
- Comprehensive self-analysis and fault display
- Easily accessible filter

**Wired remote controller with weekly timer integrated**

**MELCloud Wi-Fi adapter (optional)**

Accessories

| Type designation | Description | Quantity |
| --- | --- | --- |
| MAC-567IF-E | MELCloud Wi-Fi adapter | 1 |

Product features a special coating that was applied on site and does not correspond to the standard coating.

| PUHZ-ZRP71VHA | PUHZ-ZRP100−140VKA / YKA | | PSA-RP71−140KA |
|---|---|---|---|

# Floor mounted units
## Single-split / power inverter / Cooling and heating

WiFi MELCloud (optional) | ON/OFF | Weekly | Standard Filter | Low-temperature Cooling | Low-temperature Heating | Rotation Back-up | Multi-Split | Auto Restart | Refrigerant Status Check | Pre-charged | R 410 A | Certified Quality | POWER INVERTER | REUSE PIPING

## PSA-RP floor mounted units, cooling / heating, cable remote control integrated in the unit

| Indoor units | | PSA-RP71KA | PSA-RP100KA | PSA-RP125KA | PSA-RP140KA |
|---|---|---|---|---|---|
| Outdoor units | | PUHZ-ZRP71VHA | PUHZ-ZRP100YKA | PUHZ-ZRP125YKA | PUHZ-ZRP140YKA |
| Cooling | Cooling capacity (kW) | 7.1 (3.3−8.1) | 9.5 (4.9−11.4) | 12.5 (5.5−14.0) | 13.4 (6.2−15.0) |
| | Power consumption (kW) | 1.89 | 2.50 | 4.09 | 4.06 |
| | SEER | 6.3 | 5.5 | 4.9 | 5.3 |
| | Energy efficiency class | A++ | A | – | – |
| | Application range (°C) | −15~+21 | −15~+46 | −15~+46 | −15~+46 |
| Heating | Heating capacity (kW) | 7.6 (3.5−10.2) | 11.2 (4.5−14.0) | 14.0 (5.0−16.0) | 16.0 (5.7−18.0) |
| | Power consumption (kW) | 2.21 | 3.08 | 4.24 | 4.79 |
| | SCOP | 4.0 | 4.0 | 4.0 | 4.4 |
| | Energy efficiency class | A+ | A+ | – | – |
| | Application range (°C) | −20~+21 | −20~+21 | −20~+21 | −20~+21 |

| Indoor units | | PSA-RP71KA | PSA-RP100KA | PSA-RP125KA | PSA-RP140KA |
|---|---|---|---|---|---|
| Air volume (m³/h) | L/H | 1200/1440 | 1500/1800 | 1500/1860 | 1500/1860 |
| Sound level (dB(A)) | L/H | 40/44 | 45/51 | 45/51 | 45/51 |
| Dimensions (mm) | W/D/H | 600/360/1.900 | 600/360/1.900 | 600/360/1.900 | 600/360/1.900 |
| Weight (kg) | | 46 | 46 | 46 | 48 |
| Outdoor units | | PUZ-ZM71VHA | PUHZ-ZRP100YKA | PUHZ-ZRP125YKA | PUHZ-ZRP140YKA |
| Airflow (m³/h) | | 3300 | 6600 | 7200 | 7200 |
| Sound pressure level cooling / heating (dB(A)) | | 47/49 | 49/51 | 50/52 | 50/52 |
| Dimensions (mm) | W/D/H | 950/330 (+25)/943 | 1.050/330 (+40)/1.338 | 1.050/330 (+40)/1.338 | 1.050/330 (+40)/1.338 |
| Weight (kg) | | 70 | 123 | 125 | 131 |
| Refrigeration data | | | | | |
| Total pipe length (m) | | 55 | 75 | 75 | 75 |
| Max. height difference (m) | | 30 | 30 | 30 | 30 |
| Refrigerant type / refrigerant quantity (kg) / max. quantity (kg) | | R32/2.8/3.6 | R410A/5.0/7.4 | R410A/5.0/7.4 | R410A/5.0/7.4 |
| GWP / $CO_2$ equivalent (t) / $CO_2$ equivalent max. (t) | | 675/1.89/2.43 | 2088/10.44/15.45 | 2088/10.44/15.45 | 2088/10.44/15.45 |
| Refrigerant pre-filling for (m) | | 30 | 30 | 30 | 30 |
| Refrigerant pipe size Ø (mm) | fl. | 10 | 10 | 10 | 10 |
| | s. | 16 | 16 | 16 | 16 |
| Electrical data | | | | | |
| Voltage supply (V, phase, Hz) | | 220−240, 1, 50 | 380−415, 3+N, 50 | 380−415, 3+N, 50 | 380−415, 3+N, 50 |
| Operating current cooling / heating (A) | | 7.63/8.65 | 3.95/3.98 | 5.93/5.63 | 6.67/7.20 |
| Recommended breaker size (A) | | 25 | 16 | 16 | 16 |

Sound pressure level measured at a distance of 1 m and at a height of 1 m in front of the unit
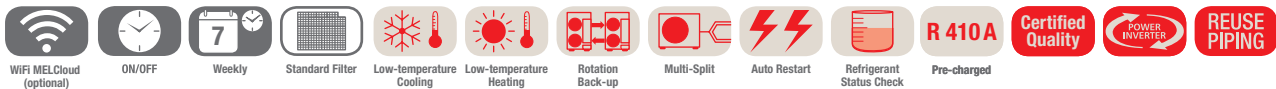Energy efficiency class on a scale from A+++ to D

Our air conditioning equipment and heat pumps contain fluorinated greenhouse gases R410A, R134a, R32.
For further information please see the corresponding operation manual.

## Ceiling concealed ducted unit PEAD-M & PEA-M

### Highlights

- SCOP up to 4.3 / SEER up to 6.2
- Energy efficiency class up to A+ / A+
- Sound level from 23 dB(A) on
- External static pressure up to 200 Pa for PEA-M
- Installation height (PEAD) 250 mm

The duct units are ideal for locations where air has to be transported over large distances or concealed installation is desired.

**Geringe Einbauhöhe**



250 mm

### Design
- Unit can be fully installed

### Air quality
- Long-life filter (optional for PEA-M only)
- Fresh air connection possible
- Plasma Quad Connect filter (optional for PEAD)

### Airflow control
- Automatic fan stage control
- 3 fan speeds with PEAD units
- Air volume with PEAD units adjustable over 0 - 10 V (accessory equipment required)

### Comfort and control
- Automatic restart after power outage
- Rotation back-up function as standard (with PUZ outdoor units)

### Installation and maintenance
- Low installation height, just 250 mm with PEAD
- External static pressure of up to 200 Pa (for PEA-M) allows the use of long air ducts

### Built-in condensate pump for PEAD units

### Large capacities (PEA-M)
- For very large rooms, production halls and open spaces

### Choice of wired or infrared remote controller

### Optional filter box
- For sideways removal of the filter. Simplifies access for maintenance and cleaning.

### MELCloud Wi-Fi adapter (optional)

### Accessories

| Type designation | Description | Quantity |
|---|---|---|
| PAC-YT52CRA | Wired remote control compact | 1 |
| PAR-40MAA | Wired remote control Deluxe | 1 |
| PAR-CT01MAA* | Wired remote controller with touchscreen | 1 |
| PAR-SA9CA-E | Infrared remote control (receiver) | 1 |
| PAR-SL97A-E | Infrared remote control (transmitter) | 1 |
| MAC-567IF-E | MELCloud Wi-Fi adapter | 1 |
| PAC-KE250TB-F | Filter box for PEA-M200/250 | 1 |
| PAC-KE85LAF** | Optional long-life filter for PEA-M200/250 | 1 |
| PAC-KE06DM-F1 | Condensate pump for PEA-M200/250 | 1 |
| MAC-100FT-E*** | Plasma Quad Connect (available from May 2021) | 1 |

\*　Available in several versions. Further information available in chapter controls

\*\*　Filter frame PAC-KE250TB-E is required for installation.

\*\*\*　Additional installation kit required. Please submit a request (available as of July 2021).
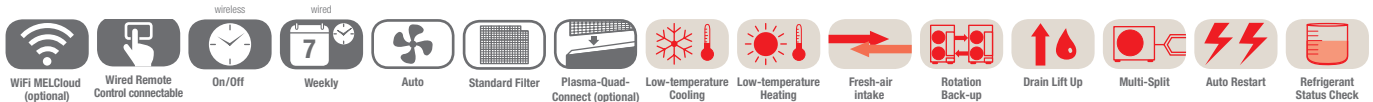
| PUZ-ZM35/50VKA | PUZ-ZM60/71VHA | PUZ-ZM100−140VKA/YKA | | PEAD-M |
|---|---|---|---|---|

# Ceiling concealed ducted units
## Single-split/power inverter/Cooling and heating

| WiFi MELCloud (optional) | Wired Remote Control connectable | On/Off | Weekly | Auto | Standard Filter | Plasma-Quad-Connect (optional) | Low-temperature Cooling | Low-temperature Heating | Fresh-air intake | Rotation Back-up | Drain Lift Up | Multi-Split | Auto Restart | Refrigerant Status Check |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**R 32** Pre-charged  **Certified Quality**  **POWER INVERTER**  **REUSE PIPING**

## PEAD-M ceiling concealed ducted units, cooling/heating, remote control not included in scope of delivery

| Indoor units | | PEAD-M35JA | PEAD-M50JA | PEAD-M60JA | PEAD-M71JA | PEAD-M100JA | PEAD-M125JA | PEAD-M140JA |
|---|---|---|---|---|---|---|---|---|
| Outdoor units | | PUZ-ZM35VKA | PUZ-ZM50VKA | PUZ-ZM60VHA | PUZ-ZM71VHA | PUZ-ZM100YKA | PUZ-ZM125YKA | PUZ-ZM140YKA |
| Cooling | Cooling capacity (kW) | 3.6 (1.6−4.5) | 5.0 (2.3−5.6) | 6.1 (2.7−6.7) | 7.1 (3.3−8.1) | 9.5 (4.9−11.4) | 12.5 (5.5−14.0) | 13.4 (6.2−15.3) |
| | Power consumption (kW) | 0.84 | 1.20 | 1.51 | 1.86 | 2.27 | 3.33 | 3.63 |
| | SEER | 5.8 | 6.2 | 6.1 | 5.8 | 6.1 | 5.7 | 5.6 |
| | Energy efficiency class | A+ | A++ | A++ | A+ | A++ | – | – |
| | Application range (°C) | −15~+46 | −15~+46 | −15~+46 | −15~+46 | −15~+46 | −15~+46 | −15~+46 |
| Heating | Heating capacity (kW) | 4.1 (1.6−5.2) | 6.0 (2.5−7.3) | 7.0 (2.8−8.2) | 8.0 (3.5−10.2) | 11.2 (4.5−14.0) | 14.0 (5.0−16.0) | 16.0 (5.7−18.0) |
| | Power consumption (kW) | 0.92 | 1.31 | 1.62 | 1.93 | 2.60 | 3.35 | 3.97 |
| | SCOP | 3.9 | 4.3 | 4.0 | 3.9 | 4.1 | 3.9 | 4.0 |
| | Energy efficiency class | A | A+ | A+ | A | A+ | – | – |
| | Application range (°C) | −11~+21 | −11~+21 | −20~+21 | −20~+21 | −20~+21 | −20~+21 | −20~+21 |

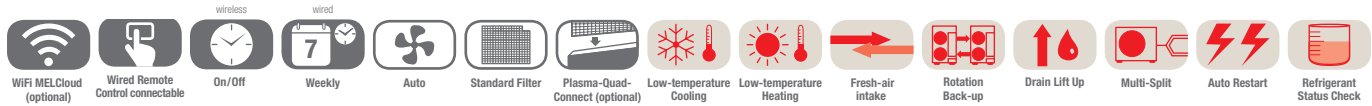| Indoor units | | PEAD-M35JA | PEAD-M50JA | PEAD-M60JA | PEAD-M71JA | PEAD-M100JA | PEAD-M125JA | PEAD-M140JA |
|---|---|---|---|---|---|---|---|---|
| Air volume (m³/h) | L/M/H | 600/720/840 | 720/870/1020 | 870/1080/1260 | 1050/1260/1500 | 1440/1740/2040 | 1770/2130/2520 | 1920/2340/2760 |
| Static pressure (Pa) | | 35/50/70/100/150 | 35/50/70/100/150 | 35/50/70/100/150 | 35/50/70/100/150 | 35/50/70/100/150 | 35/50/70/100/150 | 35/50/70/100/150 |
| Sound level (dB(A)) | L/H | 23/30 | 26/35 | 25/33 | 26/34 | 29/38 | 33/40 | 34/43 |
| Dimensions (mm) | W/D/H | 900/732/250 | 900/732/250 | 1.100/732/250 | 1.100/732/250 | 1.400/732/250 | 1.400/732/250 | 1.600/732/250 |
| Weight (kg) | | 26 | 28 | 33 | 33 | 41 | 43 | 47 |
| Outdoor units | | PUZ-ZM35VKA | PUZ-ZM50VKA | PUZ-ZM60VHA | PUZ-ZM71VHA | PUZ-ZM100YKA | PUZ-ZM125YKA | PUZ-ZM140YKA |
| Airflow (m³/h) | | 2700 | 2700 | 3300 | 3300 | 6600 | 7200 | 7200 |
| Sound pressure level cooling/heating (dB(A)) | | 44/46 | 44/46 | 47/49 | 47/49 | 49/51 | 50/52 | 50/52 |
| Dimensions (mm) | W/D/H | 809/300/630 | 809/300/630 | 950/355/943 | 950/355/943 | 1.050/370/1.338 | 1.050/370/1.338 | 1.050/370/1.338 |
| Weight (kg) | | 46 | 46 | 70 | 70 | 123 | 125 | 131 |
| **Refrigeration data** | | | | | | | | |
| Total pipe length (m) | | 50 | 50 | 55 | 55 | 100 | 100 | 100 |
| Max. height difference (m) | | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Refrigerant type/refrigerant quantity (kg)/max. quantity (kg) | | R32/2.0/2.3 | R32/2.0/2.3 | R32/2.8/3.6 | R32/2.8/3.6 | R32/4.0/6.8 | R32/4.0/6.8 | R32/4.0/6.8 |
| GWP/CO$_2$ equivalent (t)/CO$_2$ equivalent max. (t) | | 675/1.35/1.55 | 675/1.35/1.55 | 675/1.89/2.43 | 675/1.89/2.43 | 675/2.70/4.59 | 675/2.70/4.59 | 675/2.70/4.59 |
| Refrigerant pre-filling for (m) | | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Refrigerant pipe size Ø (mm) | fl. | 6 | 6 | 10 | 10 | 10 | 10 | 10 |
| | s. | 12 | 12 | 16 | 16 | 16 | 16 | 16 |
| **Electrical data** | | | | | | | | |
| Voltage supply (V, phase, Hz) | | 220−240, 1, 50 | 220−240, 1, 50 | 220−240, 1, 50 | 220−240, 1, 50 | 380−415, 3+N, 50 | 380−415, 3+N, 50 | 380−415, 3+N, 50 |
| Operating current cooling/heating (A) | | 3.17/3.53 | 4.8/5.85 | 5.66/6.77 | 6.7/7.46 | 3.08/3.74 | 4.91/5.36 | 5.34/6.27 |
| Recommended breaker size (A) | | 16 | 16 | 25 | 25 | 16 | 16 | 16 |

Sound pressure level of the indoor unit measured 1 m in front of and 1 m below the unit
Outdoor units 100/125/140 are also available in 230V/1Ph versions on request.
Energy efficiency class on a scale from A+++ to D

Our air conditioning equipment and heat pumps contain fluorinated greenhouse gases R410A, R134a, R32.
For further information please see the corresponding operation manual.

| PEAD-M | PUHZ-SHW112/140VHA-A / YHA-A |

# Ceiling concealed ducted units
## Single-split / Zubadan inverter / Cooling and heating

| WiFi MELCloud (optional) | Wired Remote Control connectable | On/Off | Weekly | Auto | Standard Filter | Plasma-Quad-Connect (optional) | Low-temperature Cooling | Low-temperature Heating | Fresh-air intake | Rotation Back-up | Drain Lift Up | Multi-Split | Auto Restart | Refrigerant Status Check |

R 410 A Pre-charged | Certified Quality | ZUBADAN | REUSE PIPING

### PEAD-M ceiling concealed ducted units, cooling/heating, remote control not included in scope of delivery

| Indoor units | | PEAD-M100JA | PEAD-M100JA | PEAD-M125JA |
|---|---|---|---|---|
| **Outdoor units** | | PUHZ-SHW112VHA-A | PUHZ-SHW112YHA-A | PUHZ-SHW140YHA-A |
| **Cooling** | Cooling capacity (kW) | 10.0 (4.9 – 11.4) | 10.0 (4.9 – 11.4) | 12.5 (5.5 – 14.0) |
| | Power consumption (kW) | 3.059 | 3.059 | 3.895 |
| | SEER | 5.0 | 5.0 | 5.1 |
| | Energy efficiency class | B | B | – |
| | Application range (°C) | –15~+46 | –15~+46 | –15~+46 |
| **Heating** | Heating capacity (kW) | 11.2 (4.5 – 14.0) | 11.2 (4.5 – 14.0) | 14.0 (5.0 – 16.0) |
| | Heating capacity to -15 °C (kW) | 11.2 | 11.2 | 14.0 |
| | Power consumption (kW) | 3.103 | 3.103 | 3.879 |
| | SCOP | 3.8 | 3.8 | 3.6 |
| | Energy efficiency class | A | A | – |
| | Application range (°C) | –25~+21 | –25~+21 | –25~+21 |

| Indoor units | | PEAD-M100JA | PEAD-M100JA | PEAD-M125JA |
|---|---|---|---|---|
| Air volume (m³/h) | L/H | 1440 / 2040 | 1440 / 2040 | 1770 / 2520 |
| Static pressure (Pa) | | 35 / 50 / 70 / 100 / 150 | 35 / 50 / 70 / 100 / 150 | 35 / 50 / 70 / 100 / 150 |
| Sound level (dB(A)) | L/H | 29 / 38 | 29 / 38 | 33 / 40 |
| Dimensions (mm) | W/D/H | 1.400 / 732 / 250 | 1.400 / 732 / 250 | 1.400 / 732 / 250 |
| Weight (kg) | | 41 | 41 | 43 |
| **Outdoor units** | | PUHZ-SHW112VHA-A | PUHZ-SHW112YHA-A | PUHZ-SHW140YHA-A |
| Airflow (m³/h) | | 6000 | 6000 | 6000 |
| Sound pressure level cooling / heating (dB(A)) | | 51 / 52 | 51 / 52 | 51 / 52 |
| Dimensions (mm) | W/D/H | 950 / 330 / 1.350 | 950 / 330 / 1.350 | 950 / 330 / 1.350 |
| Weight (kg) | | 120 | 134 | 134 |
| **Refrigeration data** | | | | |
| Total pipe length (m) | | 75 | 75 | 75 |
| Max. height difference (m) | | 30 | 30 | 30 |
| Refrigerant type / refrigerant quantity (kg) / max. quantity (kg) | | R410A / 5.5 / 7.9 | R410A / 5.5 / 7.9 | R410A / 5.5 / 7.9 |
| GWP / CO₂ equivalent (t) / CO₂ equivalent max. (t) | | 2088 / 11.49 / 16.51 | 2088 / 11.49 / 16.51 | 2088 / 11.49 / 16.51 |
| Refrigerant pre-filling for (m) | | 30 | 30 | 30 |
| Refrigerant pipe size Ø (mm) | fl. | 10 | 10 | 10 |
| | s. | 16 | 16 | 16 |
| **Electrical data** | | | | |
| Voltage supply (V, phase, Hz) | | 230, 1, 50 | 380 – 415, 3+N, 50 | 380 – 415, 3+N, 50 |
| Operating current cooling / heating (A) | | 11.1 / 11.28 | 3.69 / 3.74 | 4.92 / 4.91 |
| Recommended breaker size (A) | | 40 | 16 | 16 |

Sound pressure level of the indoor unit measured 1 m in front of and 1 m below the unit
Energy efficiency class on a scale from A+++ to D

Our air conditioning equipment and heat pumps contain fluorinated greenhouse gases R410A, R134a, R32.
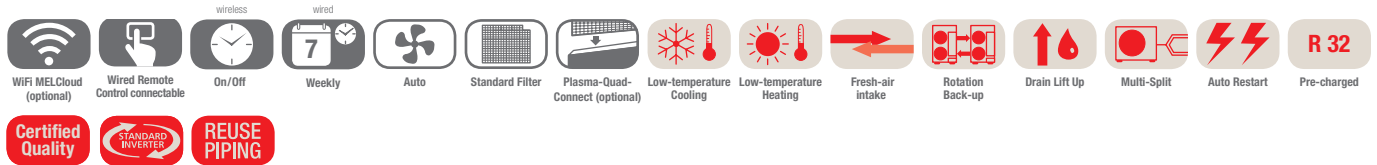For further information please see the corresponding operation manual.

| | SUZ-M35VA | SUZ-M50VA | SUZ-M60/71VA | PUZ-M100−140VKA/YKA | PEAD-M |
|---|---|---|---|---|---|



# Ceiling concealed ducted units
## Single-split / standard inverter / Cooling and heating

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| wireless | | wired | | | | | | | | | | | |
| WiFi MELCloud (optional) | Wired Remote Control connectable | On/Off | Weekly | Auto | Standard Filter | Plasma-Quad-Connect (optional) | Low-temperature Cooling | Low-temperature Heating | Fresh-air intake | Rotation Back-up | Drain Lift Up | Multi-Split | Auto Restart | Pre-charged |

Certified Quality · STANDARD INVERTER · REUSE PIPING · R 32

## PEAD-M ceiling concealed ducted units, cooling/heating, remote control not included in scope of delivery

| Indoor units | | PEAD-M35JA | PEAD-M50JA | PEAD-M60JA | PEAD-M71JA | PEAD-M100JA | PEAD-M125JA | PEAD-M140JA |
|---|---|---|---|---|---|---|---|---|
| Designation of outdoor units 230 V | | SUZ-M35VA | SUZ-M50VA | SUZ-M60VA | SUZ-M71VA | PUZ-M100VKA | PUZ-M125VKA | PUZ-M140VKA |
| Designation of outdoor units 400 V | | – | – | – | – | PUZ-M100YKA | PUZ-M125YKA | PUZ-M140YKA |
| Cooling | Cooling capacity (kW) | 3.6 (0.8−3.9) | 5.0 (1.7−5.6) | 6.1 (1.6−6.3) | 7.1 (2.2−8.1) | 9.5 (4.0−10.6) | 12.1 (6.0−13.0) | 13.4 (6.1−14.1) |
| | Power consumption (kW) | 0.92 | 1.35 | 1.69 | 2.02 | 2.87 | 4.01 | 4.76 |
| | SEER | 5.8 | 6.1 | 6.0 | 5.8 | 5.4 | – | – |
| | Energy efficiency class | A+ | A++ | A+ | A+ | A | – | – |
| | Application range (°C) | −10~+46 | −15~+46 | −15~+46 | −15~+46 | −15~+46 | −15~+46 | −15~+46 |
| Heating | Heating capacity (kW) | 4.1 (1.1−5.0) | 6.0 (1.5−7.2) | 7.0 (1.6−8.0) | 8.0 (2.0−10.2) | 11.2 (2.8−12.5) | 13.5 (4.1−15.0) | 15.0 (4.2−15.8) |
| | Power consumption (kW) | 1.02 | 1.46 | 1.84 | 2.15 | 2.94 | 3.73 | 4.15 |
| | SCOP | 3.9 | 4.2 | 4.0 | 3.9 | 4.0 | – | – |
| | Energy efficiency class | A | A+ | A+ | A | A+ | – | – |
| | Application range (°C) | −10~+24 | −10~+24 | −10~+24 | −10~+24 | −15~+21 | −15~+21 | −15~+21 |

| Indoor units | | PEAD-M35JA | PEAD-M50JA | PEAD-M60JA | PEAD-M71JA | PEAD−M100JA | PEAD−M125JA | PEAD−M140JA |
|---|---|---|---|---|---|---|---|---|
| Air volume (m³/h) | L/M/H | 600/720/840 | 720/870/1020 | 870/1080/1260 | 1050/1260/1500 | 1440/1740/2040 | 1770/2130/2520 | 1920/2340/2760 |
| Static pressure (Pa) | | (35)/(50)/ (70)/(100)/150 | (35)/(50)/ (70)/(100)/150 | (35)/(50)/ (70)/(100)/150 | (35)/(50)/ (70)/(100)/150 | (35)/(50)/ (70)/(100)/150 | (35)/(50)/ (70)/(100)/150 | (35)/(50)/ (70)/(100)/150 |
| Sound level (dB(A)) | L/M/H | 23/27/30 | 26/31/35 | 25/29/33 | 26/30/34 | 29/34/38 | 33/36/40 | 34/38/43 |
| Dimensions (mm) | W/D/H | 900/732/250 | 900/732/250 | 1.100/732/250 | 1.100/732/250 | 1.400/732/250 | 1.400/732/250 | 1.600/732/250 |
| Weight (kg) | | 26 | 27 | 30 | 30 | 39 | 40 | 44 |
| Outdoor units | | SUZ-M35VA | SUZ-M50VA | SUZ-M60VA | SUZ-M71VA | PUZ-M100V-KA/YKA | PUZ-M125 VKA/YKA | PUZ-M140 VKA/YKA |
| Airflow cooling/heating (m³/h) | | 2058/1962 | 2748/2622 | 3006/3006 | 3006/3006 | 4740/4740 | 5160/5520 | 5160/5520 |
| Sound pressure level cooling/heating (dB(A)) | | 48/48 | 48/49 | 49/51 | 49/51 | 51/54 | 54/56 | 55/57 |
| Dimensions (mm) | W/D/H | 800/285/550 | 800/285/714 | 840/330/880 | 840/330/880 | 1.050/330/981 | 1.050/330/981 | 1.050/330/981 |
| Weight 230 V / 400 V (kg) | | 35/− | 41/− | 54/− | 55/− | 76/78 | 84/85 | 84/85 |
| **Refrigeration data** | | | | | | | | |
| Total pipe length (m) | | 20 | 30 | 30 | 30 | 55 | 65 | 65 |
| Max. height difference (m) | | 12 | 30 | 30 | 30 | 30 | 30 | 30 |
| Refrigerant type/refrigerant quantity (kg)/max. quantity (kg) | | R32/0.90/1.16 | R32/1.20/1.66 | R32/1.25/1.71 | R32/1.45/2.37 | R32/3.10/4.10 | R32/3.60/5.00 | R32/3.60/5.00 |
| GWP/CO₂ equivalent (t)/CO₂ equivalent max. (t) | | 675/0.61/0.78 | 675/0.81/1.12 | 675/0.84/1.15 | 675/0.98/1.60 | 675/2.09/2.77 | 675/2.43/3.38 | 675/2.43/3.38 |
| Refrigerant pre-filling for (m) | | 7 | 7 | 7 | 7 | 30 | 30 | 30 |
| Refrigerant pipe size Ø (mm) | fl. | 6 | 6 | 6 | 10 | 10 | 10 | 10 |
| | s. | 10 | 12 | 16 | 16 | 16 | 16 | 16 |
| **Electrical data** | | | | | | | | |
| Voltage supply 230 V (V, phase, Hz) | | 220−240, 1, 50 | 220−240, 1, 50 | 220−240, 1, 50 | 220−240, 1, 50 | 220−240, 1, 50 | 220−240, 1, 50 | 220−240, 1, 50 |
| Voltage supply 400 V (V, phase, Hz) | | – | – | – | – | 380−415, 3+N, 50 | 380−415, 3+N, 50 | 380−415, 3+N, 50 |
| Operating current 230 V cooling/heating (A) | | 4.77/4.97 | 7.0/6.6 | 8.71/10.11 | 10.81/10.41 | 12.26/12.62 | 17.37/16.74 | 22.48/21.31 |
| Operating current 400 V cooling/heating (A) | | – | – | – | – | 4.78/5.05 | 6.18/6.09 | 7.92/7.58 |
| Recommended fuse size 230 V (A) | | 10 | 20 | 20 | 20 | 32 | 32 | 40 |
| Recommended fuse size 400 V (A) | | – | – | – | – | 16 | 16 | 16 |

Sound pressure level of the indoor unit measured 1 m in front of and 1 m below the unit
Energy efficiency class on a scale from A+++ to D

Our air conditioning equipment and heat pumps contain fluorinated greenhouse gases R410A, R134a, R32.
For further information please see the corresponding operation manual.