

MSZ-A SERIES

Introducing a compact and stylish indoor unit with various capacity, designed to match number of rooms. High performance indoor and outdoor units enabled to achieve "Rank A+++" for SEER. *MSZ-AP25/35VG

R32
Single / Multi
R410A
Multi



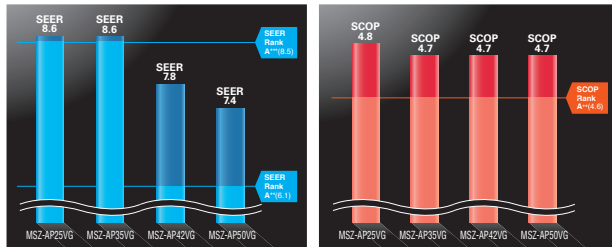
MSZ-AP15/20VG
MSZ-AP25/35/42/50VG
MSZ-AP60/71VG



High energy saving

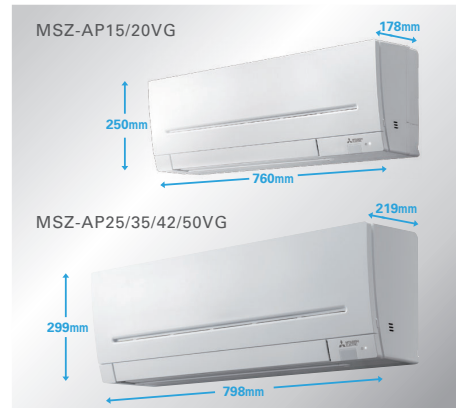
25-25 SEER A+++
25-50 SCOP A++

All models in the series, from the low-capacity 25 to the high-capacity 50, have achieved either the "Rank A+++" or "Rank A++" for SEER and SCOP as energy-savings rating. Our air conditioners are contributing to reduce energy consumption in a wide range.



Compact and stylish

15/20 class are for multi-systems and 25-50 class are introduced as single-split and multi-systems. From small rooms to living rooms, it is possible to coordinate residences with a unified design.



Evolved comfortable convenience function

Horizontal Airflow

Auto Vane Control

The Function

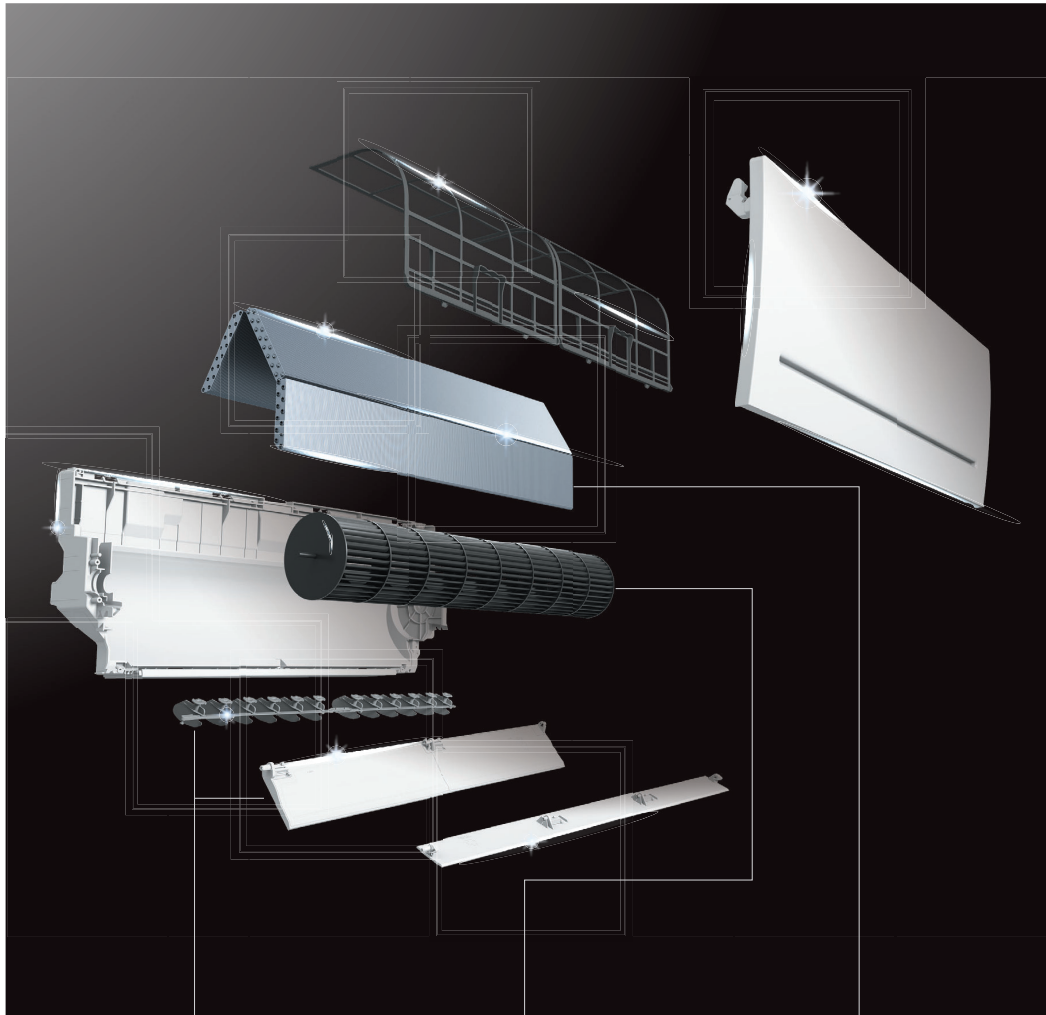
| | | | | |
|-----------------|------------------|----------------|------------------|-------|
| Econo Cool | AUTO VANE | Air Purifying | SWING | SWING |
| AUTO | Weekly Timer | I save | ACO | |
| Auto Restart | Low Temp Cooling | Group Control | M-NET connection | |
| Wi-Fi interface | MXZ connection | 10°C | Night | |
| Cleaning Filter | Flare connection | Self Diagnosis | Failure Recall | |

The new airflow control which spreads across the ceiling eliminates the uncomfortable drafty feeling.

Auto vanes can be moved left and right, and up and down using the remote controller.

*Only for 25/35/42/50 models.

High performance and compact size are realised by refining all parts



Comfort

Vertical and Horizontal Vane

New vertical and horizontal vanes are double the size of the previous model, improving airflow control elaborately.

175% larger

204% larger

High Performance

Line Flow Fan

New line flow Fan is 122% larger and 108% wider than the previous model, leading to higher aerodynamic performance. Also, same sound level as the previous model.

122% larger

108% larger

High Performance

Heat Exchanger

New $\phi 5$ Heat exchanger enables to realise 32% thinner depth than the previous model. It realises low pressure loss leading to high performance.

32% Thinner

“Weekly Timer”



Easily set desired temperatures and operation start/stop times to match lifestyle patterns. Reduce wasted energy consumption by using the timer to prevent forgetting to turn off the unit and eliminate temperature setting adjustments.

■ Example Operation Pattern (Winter/Heating mode)

| | Mon. | Tues. | Wed. | Thurs. | Fri. | Sat. | Sun. |
|-------------------------|--|---------|---------|---------|---------|--|---------|
| 6:00 | ON 20°C | ON 20°C | ON 20°C | ON 20°C | ON 20°C | ON 20°C | ON 20°C |
| 8:00 | Automatically changes to high-power operation at wake-up time | | | | | | |
| 10:00 | | | | | | | |
| 12:00 | OFF | OFF | OFF | OFF | OFF | ON 18°C | ON 18°C |
| 14:00 | Automatically turned off during work hours | | | | | Midday is warmer, so the temperature is set lower | |
| 16:00 | | | | | | | |
| 18:00 | ON 20°C | ON 20°C | ON 20°C | ON 20°C | ON 20°C | ON 20°C | ON 20°C |
| 20:00 | Automatically turns on, synchronized with arrival at home | | | | | Automatically raises temperature setting to match time when outside-air temperature is low | |
| 22:00 | | | | | | | |
| (during sleeping hours) | ON 18°C | ON 18°C | ON 18°C | ON 18°C | ON 18°C | ON 18°C | ON 18°C |
| | Automatically lowers temperature at bedtime for energy-saving operation at night | | | | | | |

Settings

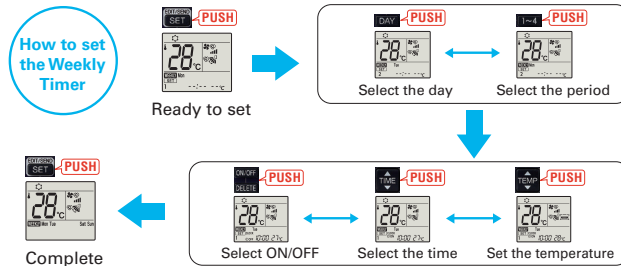
Pattern Settings: Input up to four settings for each day

Settings: •Start/Stop operation •Temperature setting *The operation mode cannot be set.

■ Easy set-up using dedicated buttons



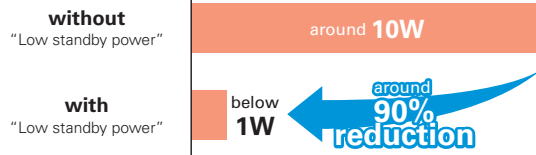
The remote controller is equipped with buttons that are used exclusively for setting the Weekly Timer. Setting operation patterns is easy and quick.



- Start by pushing the “SET” button and follow the instructions to set the desired patterns. Once all of the desired patterns are input, point the top end of the remote controller at the indoor unit and push the “SET” button one more time. (Push the “SET” button only after inputting all of the desired patterns into the remote controller memory. Pushing the “CANCEL” button will end the set-up process without sending the operation patterns to the indoor unit).
- It takes a few seconds to transmit the Weekly Timer operation patterns to the indoor unit. Please continue to point the remote controller at the indoor unit until all data has been sent.
- When “Weekly Timer” is set, temperature can not be set 10°C. (only for 15/20 models)

Low Standby Power

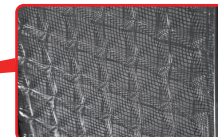
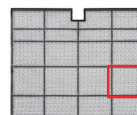
Electrical devices consume standby power even when they are not in actual use. While we obviously strive to reduce power consumption during actual use, reducing this wasted power that cannot be seen is also very important.



Air Purifying Filter

(MSZ-AP25/35/42/50)

This filter generates stable antibacterial and deodorising effects. The size of the three-dimensional surface has been increased as well, enlarging the filter capture area. These features give the Air Purifying Filter better dust collection performance than conventional filters. The superior air-cleaning effectiveness raises room comfort yet another level.

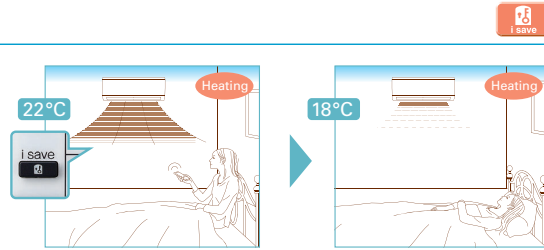


* It is okay to wash the filter with water (air-cleaning effect is maintained)

3D surface (Waved surface)

"i save" Mode

"i save" is a simplified setting function that recalls the preferred (pre-set) temperature by pressing a single button on the remote controller. Press the same button twice in repetition to immediately return to the previous temperature setting. Using this function contributes to comfortable, waste-free operation, realising the most suitable air conditioning settings and saving on power consumption when, for example, leaving the room or going to bed.

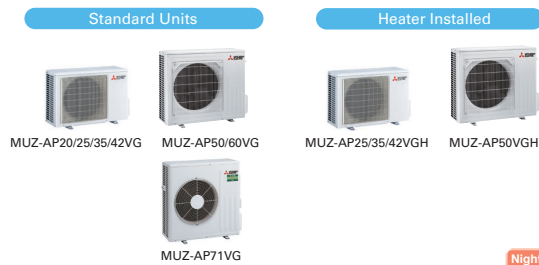


* Temperature can be preset to 10°C when heating in the "i-save" mode. (only for 15/20 models)

Outdoor Units for Cold Region

(MSZ-AP20/25/35/42/50/60/71)

Single split-type outdoor units are available in both standard and heater-equipped units. An electric heater is installed in each unit to prevent freezing in cold outdoor environments.



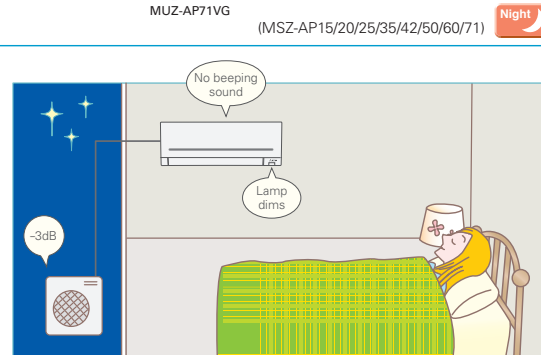
(MSZ-AP15/20/25/35/42/50/60/71)

Night Mode

When Night Mode is activated using the wireless remote controller, air conditioner operation will switch to the following settings.

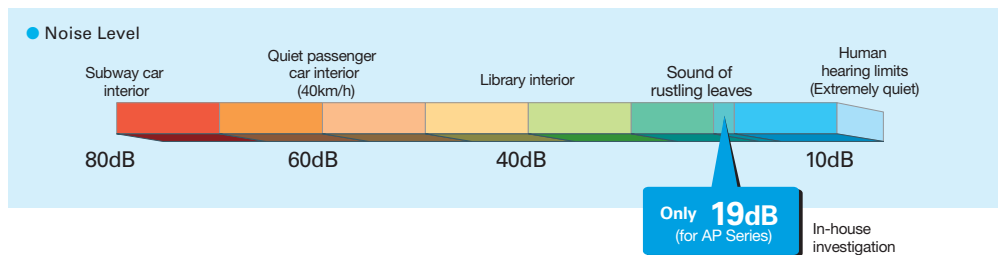
- The brightness of the operation indicator lamp will become dimmer.
- The beeping sound will be disabled.
- The outdoor operating noise will drop to 3dB lower than the rated operating noise specification.

*The cooling/heating capacity may drop.



Quiet Operation

The indoor unit noise level is as low as 19dB for AP Series, offering a peaceful inside environment.



Built-in Wi-Fi Interface

(MSZ-AP25/35/42/50/60/71VGK)



The indoor unit is equipped with a Wi-Fi Interface inside an exclusive pocket in the unit.

This eliminates the need to install a Wi-Fi interface, and also contributes to the beautiful appearance since the interface is hidden.

MSZ-AP SERIES

Indoor Unit

R32 R410A



MSZ-AP15*/20VG



Outdoor Unit

*For MXZ Connection Only



MUZ-AP20VG

R32

Remote Controller



| Type | Inverter Heat Pump | | | | | | | | | |
|---|--|---------------------------------|---------------------|----------------|-----------------------------|-----------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Indoor Unit | MSZ-AP15VG | MSZ-AP20VG | MSZ-AP25VG (K) | MSZ-AP25VG (K) | MSZ-AP35VG (K) | MSZ-AP35VG (K) | MSZ-AP35VG (K) | | | |
| Outdoor Unit | for MXZ connection | MUZ-AP20VG | MUZ-AP25VG | MUZ-AP25VGH | MUZ-AP35VG | MUZ-AP35VGH | MUZ-AP35VGH | | | |
| Refrigerant | Single: R32(*1) / Multi: R410A or R32(*1) | | | | | | | | | |
| Power Supply | Outdoor Power supply 230/Single/50 | | | | | | | | | |
| Cooling | Design load | kW | | - | 2.0 | 2.5 | 2.5 | 3.5 | 3.5 | |
| | Annual electricity consumption ^(*) | kWh/a | | - | 81 | 101 | 101 | 142 | 142 | |
| | SEER ^(*) | | | - | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | |
| | Capacity | Rated | kW | | 1.5 | 2.0 | 2.5 | 2.5 | 3.5 | 3.5 |
| | | | Min-Max | kW | | 0.9-2.4 | 0.9-2.6 | 0.9-3.4 | 0.9-3.4 | 1.1-3.8 |
| Heating (Average Season) ^(*) | Design load | kW | | - | 2.3 (-10°C) | 2.4 (-10°C) | 2.4 (-10°C) | 2.9 (-10°C) | 2.9 (-10°C) | |
| | Declared Capacity | at reference design temperature | | - | 2.3 (-10°C) | 2.4 (-10°C) | 2.4 (-10°C) | 2.9 (-10°C) | 2.9 (-10°C) | |
| | | at bivalent temperature | | - | 2.3 (-10°C) | 2.4 (-10°C) | 2.4 (-10°C) | 2.9 (-10°C) | 2.9 (-10°C) | |
| | at operation limit temperature | | - | 2.3 (-10°C) | 2.4 (-15°C) | 2.2 (-20°C) | 2.6 (-15°C) | 2.4 (-20°C) | | |
| | Back up heating capacity | kW | | - | 0.0 (-10°C) | 0.0 (-10°C) | 0.0 (-10°C) | 0.0 (-10°C) | 0.0 (-10°C) | |
| Operating Current (Max) | Annual electricity consumption ^(*) | kWh/a | | - | 766 | 698 | 703 | 862 | 873 | |
| | SEER ^(*) | | | - | 4.2 | 4.8 | 4.7 | 4.7 | 4.6 | |
| | Capacity | Rated | kW | | 1.7 | 2.5 | 3.2 | 3.2 | 4.0 | 4.0 |
| | | | Min-Max | kW | | 0.9-3.1 | 0.9-3.1 | 1.0-4.1 | 1.0-4.1 | 1.3-4.6 |
| | Indoor Unit | Total Input | Rated | | kW | | 0.600 | 0.780 | 0.780 | 1.030 |
| Input | | A | | - | 6.8 | 7.1 | 7.1 | 8.5 | 8.5 | |
| | | kW | | 0.017 | 0.019 | 0.026 | 0.026 | 0.026 | 0.026 | |
| Operating Current(Max) | | A | | 0.17 | 0.19 | 0.3 | 0.3 | 0.3 | 0.3 | |
| Dimensions | | H*W*D | | mm | | 250-760-178 | 250-760-178 | 299-798-219 | 299-798-219 | 299-798-219 |
| Outdoor Unit | Weight | kg | | 8.2 | 8.2 | 10.5 | 10.5 | 10.5 | 10.5 | |
| | Air Volume (SLo-Lo-Mid-Hi-SH ^(*) Dry/Wet) | Cooling | m ³ /min | | 3.5 - 3.9 - 4.6 - 5.5 - 6.4 | 3.5 - 3.9 - 4.6 - 5.5 - 6.9 | 4.9 - 5.9 - 7.1 - 8.7 - 11.4 | 4.9 - 5.9 - 7.1 - 8.7 - 11.4 | 4.9 - 5.9 - 7.1 - 8.7 - 11.4 | 4.9 - 5.9 - 7.1 - 8.7 - 11.4 |
| | | Heating | m ³ /min | | 3.7 - 4.4 - 5.0 - 6.0 - 6.8 | 3.7 - 4.4 - 5.0 - 6.0 - 7.3 | 4.9 - 5.9 - 7.3 - 8.9 - 12.9 | 4.9 - 5.9 - 7.3 - 8.9 - 12.9 | 4.9 - 5.9 - 7.3 - 8.9 - 12.9 | 4.9 - 5.9 - 7.3 - 8.9 - 12.9 |
| | Sound Level (SPL) (SLo-Lo-Mid-Hi-SH ^(*)) | Cooling | dB(A) | | 21 - 26 - 30 - 35 - 40 | 21 - 26 - 30 - 35 - 42 | 19 - 24 - 30 - 36 - 42 | 19 - 24 - 30 - 36 - 42 | 19 - 24 - 30 - 36 - 42 | 19 - 24 - 30 - 36 - 42 |
| | | Heating | dB(A) | | 21 - 26 - 30 - 35 - 40 | 21 - 26 - 30 - 35 - 42 | 19 - 24 - 34 - 39 - 45 | 19 - 24 - 34 - 39 - 45 | 19 - 24 - 31 - 38 - 45 | 19 - 24 - 31 - 38 - 45 |
| Sound Level (PWL) | Cooling | | dB(A) | | 59 | 60 | 57 | 57 | 57 | |
| Ext. Piping | Dimensions | H*W*D | | mm | | - | 550-800-285 | 550-800-285 | 550-800-285 | 550-800-285 |
| | Weight | kg | | - | 31 | 31 | 31 | 31 | 31 | |
| | Air Volume | Cooling | m ³ /min | | - | 36.2 | 32.2 | 32.2 | 32.2 | 32.2 |
| | | Heating | m ³ /min | | - | 34.6 | 29.8 | 29.8 | 33.8 | 33.8 |
| | Sound Level (SPL) | Cooling | | dB(A) | | - | 47 | 47 | 49 | 49 |
| Guaranteed Operating Range (Outdoor) | Heating | dB(A) | | - | 48 | 48 | 48 | 50 | 50 | |
| | Sound Level (PWL) | Cooling | | dB(A) | | - | 59 | 59 | 61 | 61 |
| | Operating Current (Max) | A | | - | 6.8 | 6.8 | 6.8 | 8.2 | 8.2 | |
| | | kW | | - | 0.17 | 0.19 | 0.3 | 0.3 | 0.3 | |
| | Breaker Size | A | | - | 10 | 10 | 10 | 10 | 10 | |
| Guaranteed Operating Range (Outdoor) | Diameter | Liquid/Gas | | mm | | 6.35 / 9.52 | 6.35 / 9.52 | 6.35 / 9.52 | 6.35 / 9.52 | |
| | Max.Length | Out-In | | m | | - | 20 | 20 | 20 | |
| | Max.Height | Out-In | | m | | - | 12 | 12 | 12 | |
| Guaranteed Operating Range (Outdoor) | Cooling | °C | | - | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | -10 ~ +46 | |
| | Heating | °C | | - | -15 ~ +24 | -15 ~ +24 | -20 ~ +24 | -15 ~ +24 | -20 ~ +24 | |

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP. If leaked to the atmosphere, this appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO₂ over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
The GWP of R32 is 675 in the IPCC 4th Assessment Report.
(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
(*3) SH: Super High
(*4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".
(*5) Please see page 00 for heating (warmer season) specifications.

MSZ-AP SERIES



Indoor Unit

R32 R410A



MSZ-AP25/35/42/50VG(K)

*VGK model Wi-Fi Interface built-in.



MSZ-AP60/71VG(K)

R32

*VGK model Wi-Fi Interface built-in.

Outdoor Unit

R32



MUZ-AP25/35/42VG(H)



MUZ-AP50VG(H)



MUZ-AP71VG

Remote Controller



| Type | Inverter Heat Pump | | | | | | | | | |
|---|---|---------------------------------|----------------|---------------------|----------------|------------------------------|------------------------------|-------------------------------|-------------------------------|---------------------------------|
| Indoor Unit | MSZ-AP42VG (K) | MSZ-AP42VG (K) | MSZ-AP50VG (K) | MSZ-AP50VG (K) | MSZ-AP60VG (K) | MSZ-AP71VG (K) | | | | |
| Outdoor Unit | MUZ-AP42VG | MUZ-AP42VG(H) | MUZ-AP50VG | MUZ-AP50VG(H) | MUZ-AP60VG | MUZ-AP71VG | | | | |
| Refrigerant | Single: R32(*) / Multi: R410A or R32(*) | | | | | | | | | |
| Power Supply | Outdoor Power supply 230/Single/50 | | | | | | | | | |
| Cooling | Design load | kW | | 4.2 | 4.2 | 5.0 | 5.0 | 6.1 | 7.1 | |
| | Annual electricity consumption ^(*) | kWh/a | | 188 | 188 | 236 | 236 | 288 | 345 | |
| | SEER ^(*) | | | 7.8 | 7.8 | 7.4 | 7.4 | 7.4 | 7.2 | |
| | Energy efficiency class | | | A++ | A++ | A++ | A++ | A++ | A++ | |
| | | Capacity | kW | | 4.2 | 4.2 | 5.0 | 5.0 | 6.1 | 7.1 |
| Total Input | kW | | 0.9-4.5 | 0.9-4.5 | 1.4-5.4 | 1.4-5.4 | 1.4-7.3 | 2.0-8.7 | | |
| | Rated | | kW | | 1.300 | 1.300 | 1.550 | 1.550 | 2.010 | |
| Heating (Average Season) ^(*) | Design load | kW | | 3.8 (-10°C) | 3.8 (-10°C) | 4.2 (-10°C) | 4.2 (-10°C) | 4.6 (-10°C) | 6.7 - 10 | |
| | Declared Capacity | at reference design temperature | | kW | | 3.8 (-10°C) | 3.8 (-10°C) | 4.2 (-10°C) | 4.6 (-10°C) | 6.7 - 10 |
| | | at bivalent temperature | | kW | | 3.8 (-10°C) | 3.8 (-10°C) | 4.2 (-10°C) | 4.6 (-10°C) | 6.7 - 10 |
| | at operation limit temperature | | kW | | 4.2 (-15°C) | 3.8 (-20°C) | 4.7 (-15°C) | 4.2 (-20°C) | 3.7 (-15°C) | 5.4 - 15 |
| | Back up heating capacity | kW | | 0.0 (-10°C) | 0.0 (-10°C) | 0.0 (-10°C) | 0.0 (-10°C) | 0.0 (-10°C) | 0.0 - 10 | |
| Annual electricity consumption ^(*) | kWh/a | | 1120 | 1134 | 1250 | 1275 | 1398 | 2132 | | |
| SCOP ^(*) | | | 4.7 | 4.6 | 4.7 | 4.6 | 4.6 | 4.4 | | |
| | Energy efficiency class | | | A++ | A++ | A++ | A++ | A++ | A+ | |
| Capacity | | kW | | 5.4 | 5.4 | 5.8 | 5.8 | 6.8 | 8.1 | |
| Total Input | kW | | 1.3-6.0 | 1.3-6.0 | 1.4-7.3 | 1.4-7.3 | 2.0-8.6 | 2.2-10.3 | | |
| | Rated | | kW | | 1.490 | 1.490 | 1.600 | 1.600 | 2.120 | |
| Operating Current (Max) | A | | 9.9 | 9.9 | 13.6 | 13.6 | 14.1 | 16.4 | | |
| | Input | | kW | | 0.032 | 0.032 | 0.032 | 0.041 | 0.042 | |
| Operating Current(Max) | A | | 0.3 | 0.3 | 0.3 | 0.3 | 0.43 | 0.40 | | |
| | Dimensions | H*W*D | | mm | | 299-798-219 | 299-798-219 | 299-798-219 | 325-1100-257 | |
| Indoor Unit | Weight | kg | | 10.5 | | 10.5 | | 16 | | |
| | Air Volume (Lo-Lo-Mid-Hi-SH ^(*) Dry/Wet) | Cooling | | m ³ /min | | 5.4 - 6.5 - 7.7 - 9.3 - 11.4 | 5.4 - 6.5 - 7.7 - 9.3 - 11.4 | 6.0 - 7.2 - 8.4 - 10.0 - 12.6 | 6.0 - 7.2 - 8.4 - 10.0 - 12.6 | 9.4 - 11.3 - 13.2 - 16.0 - 18.9 |
| | | Heating | | m ³ /min | | 5.3 - 6.1 - 7.7 - 9.4 - 14.0 | 5.3 - 6.1 - 7.7 - 9.4 - 14.0 | 5.6 - 6.5 - 8.2 - 10.0 - 14.0 | 5.6 - 6.5 - 8.2 - 10.0 - 14.0 | 9.4 - 11.3 - 13.2 - 16.0 - 18.1 |
| | Sound Level (SPL) (Lo-Lo-Mid-Hi-SH ^(*)) | Cooling | | dB(A) | | 21 - 29 - 34 - 38 - 42 | 21 - 29 - 34 - 38 - 42 | 28 - 33 - 36 - 40 - 44 | 28 - 33 - 36 - 40 - 44 | 29 - 37 - 41 - 45 - 48 |
| | | Heating | | dB(A) | | 21 - 29 - 35 - 40 - 45 | 21 - 29 - 35 - 40 - 45 | 28 - 33 - 38 - 43 - 48 | 28 - 33 - 38 - 43 - 48 | 30 - 37 - 41 - 46 - 48 |
| | Sound Level (PWL) | Cooling | | dB(A) | | 57 | 57 | 58 | 58 | 65 |
| | | Heating | | dB(A) | | 57 | 57 | 58 | 58 | 65 |
| | Dimensions | H*W*D | | mm | | 550-800-285 | 550-800-285 | 714-800-285 | 714-800-285 | 800-840-330 |
| | Weight | kg | | 35 | | 35 | | 40 | | |
| | Air Volume | Cooling | | m ³ /min | | 30.4 | 30.4 | 40.5 | 40.5 | 52.1 |
| Heating | | m ³ /min | | 32.7 | 32.7 | 40.5 | 40.5 | 52.1 | | |
| Sound Level (SPL) | Cooling | | dB(A) | | 50 | 50 | 52 | 52 | 56 | |
| | Heating | | dB(A) | | 51 | 51 | 52 | 52 | 55 | |
| Sound Level (PWL) | Cooling | | dB(A) | | 61 | 61 | 64 | 64 | 69 | |
| | Heating | | dB(A) | | 61 | 61 | 64 | 64 | 69 | |
| Operating Current (Max) | A | | 9.6 | | 9.6 | | 13.3 | | | |
| | Breaker Size | | A | | 10 | | 16 | | | |
| Ext. Piping | Diameter | Liquid/Gas | | mm | | 6.35 / 9.52 | 6.35 / 9.52 | 6.35 / 12.7 | 6.35 / 12.7 | |
| | Max.Length | Out-In | | m | | 20 | 20 | 30 | 30 | |
| | Max.Height | Out-In | | m | | 12 | 12 | 12 | 15 | |
| Guaranteed Operating Range (Outdoor) | Cooling | | °C | | -10 ~ +46 | | -10 ~ +46 | | | |
| | Heating | | °C | | -15 ~ +24 | | -15 ~ +24 | | | |

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 (5) Please see page 00 for heating (warmer season) specifications.