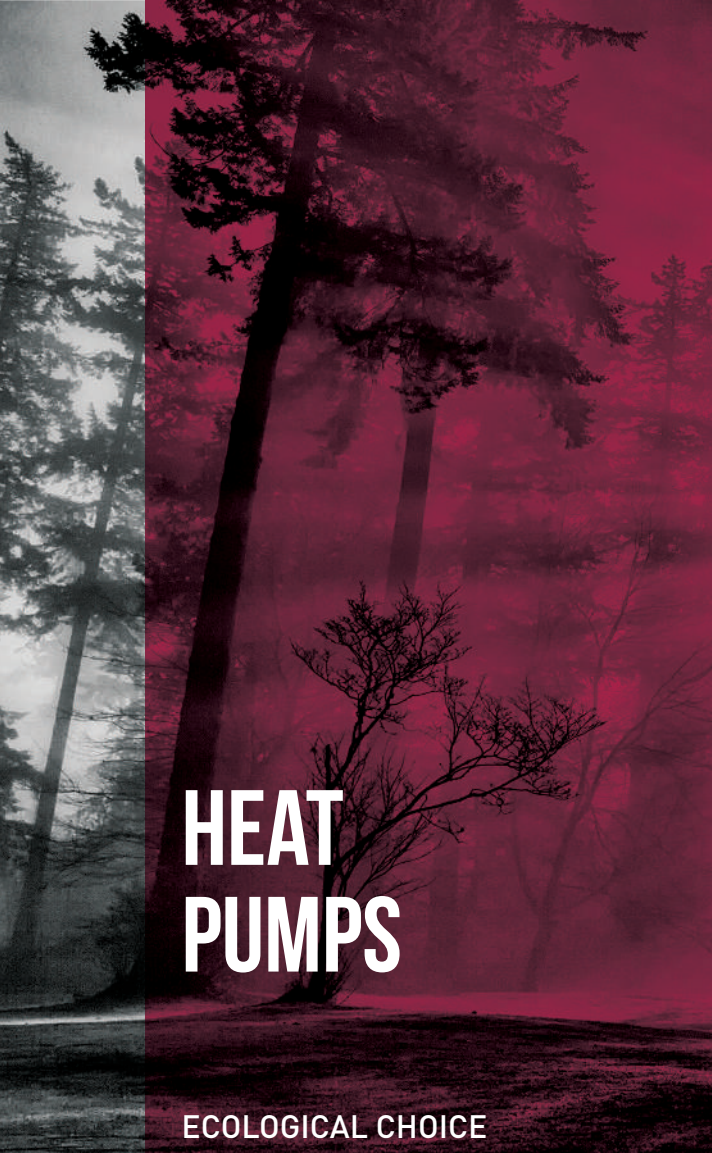




Technical Data Sheets 2023

THE WAY TO THE FUTURE_



HEAT PUMPS

ECOLOGICAL CHOICE



EN





THE WAY TO THE FUTURE_

The company was founded in 1981 with the aim of marketing and distributing air conditioning and air treatment products.

It created an extensive sales and after-sales organisation for the end customer, expanding throughout the country.

In the 2000s, Mitsui decided to develop production and expand its areas of expertise. Renewable energy systems such as photovoltaic and solar thermal have also become part of the company's references.

In this wide-ranging production, Mitsui distinguished itself with exclusive models, building plants with integrated products and systems.

www.mitsuiairconditioner.com

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HEAT PUMPS TECHNICAL DATA SHEETS

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MONOBLOC LINE

HEAT PUMPS

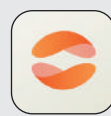
SINGLE AND DOUBLE FAN



- Wi-fi included
- Externally mounted all-in-one unit
- Multifunction controller with backlit display for remote control
- Wide operating range
- Cooling/heating/ DHW
- Temperature sensor for DHW tank as standard
- Temperature sensor for technical water puffer (optional)
- Smart Grid function for integration and management with solar system
- Max. heating water temperature 65°C
- Up to 6 cascade units



Mega HP



Comfort Home

Products controllable via the dedicated **Comfort Home** and **Mega HP** apps





A+++



Refrigerant gas



Inverter



Controller included



Wi-Fi included

| | | | MHPP5RP24MI | MHPP7RP24MI | MHPP9RP24MI |
|---|----------------|-------------------|--------------|--------------|--------------|
| Power supply | | V/Ph/Hz | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 |
| HEATING ² | Capacity | kW | 6.50 | 8.40 | 10.00 |
| | Rated input | kW | 1.22 | 1.66 | 2.12 |
| | COP | | 5.30 | 5.05 | 4.70 |
| HEATING ³ | Capacity | kW | 6.30 | 8.20 | 9.40 |
| | Rated input | kW | 1.96 | 2.60 | 3.03 |
| | COP | | 3.20 | 3.15 | 3.10 |
| COOLING ⁴ | Capacity | kW | 6.50 | 8.30 | 10.00 |
| | Rated input | kW | 1.27 | 1.71 | 2.32 |
| | EER | | 5.10 | 4.85 | 4.30 |
| COOLING ⁵ | Capacity | kW | 5.50 | 7.40 | 9.00 |
| | Rated input | kW | 1.69 | 2.34 | 3.10 |
| | EER | | 3.25 | 3.15 | 2.90 |
| Seasonal space heating energy efficiency class ⁶ | LWT at 35 °C | | A+++ | A+++ | A+++ |
| | LWT at 55 °C | | A++ | A++ | A++ |
| SCOP ⁶ | LWT at 35 °C | | 5.12 | 5.17 | 5.12 |
| | LWT at 55 °C | | 3.59 | 3.67 | 3.71 |
| SEER ⁶ | LWT at 7 °C | | 5.09 | 5.19 | 5.08 |
| | LWT at 18 °C | | 7.81 | 8.09 | 8.31 |
| Sound power level ⁷ | | dB(A) | 60 | 63 | 65 |
| Outdoor fan | Air flow | m ³ /h | 3900 | 4500 | 4500 |
| Net dimensions (WxHxD) | | mm | 1040x865x410 | 1040x865x410 | 1040x865x410 |
| Packed dimensions (WxHxD) | | mm | 1190x970x560 | 1190x970x560 | 1190x970x560 |
| Net/gross weight | | kg | 87/103 | 87/103 | 87/103 |
| Water piping connections | | inch | G1" BSP | G1" BSP | G1" BSP |
| Safety valve set pressure | | MPa | 0.3 | 0.3 | 0.3 |
| Total water volume | | L | 5 | 5 | 5 |
| Operating temperature range | Cooling | °C | -5-43 | -5-43 | -5-43 |
| | Heating | °C | -25-35 | -25-35 | -25-35 |
| | DHW | °C | -25-43 | -25-43 | -25-43 |
| LWT range | Cooling | °C | 5-30 | 5-30 | 5-30 |
| | Heating | °C | 12-65 | 12-65 | 12-65 |
| | DHW | °C | 10-60 | 10-60 | 10-60 |
| Refrigerant | Type | | R32 (675) | R32 (675) | R32 (675) |
| | Charged volume | kg | 1.25 | 1.25 | 1.25 |
| Expansion valve | | | Electronic | Electronic | Electronic |
| Backup electric heater | Optional | kW | 3.00 | 3.00 | 3.00 |

1) Relevant Eu standards and legislation: EN14511: 2016; EN14825: 2016; EN50564: 2011; EN12102: 2017; [EU] N° 811/2013; [EU] N° 813/2013; OJ 2014/C 207/02; OJ 2017/C 229/01. 2) Outdoor air temperature 7°C DB, 85% R.H.; EWT 30°C, LWT 35°C. 3) Outdoor air temperature 7°C DB, 85% R.H.; EWT 47°C, LWT 55°C. 4) Outdoor air temperature 35°C DB; EWT 23°C, LWT 18°C. 5) Outdoor air temperature 35°C DB; EWT 12°C, LWT 7°C. 6) Seasonal space heating energy efficiency class tested in average climate conditions. 7) Sound power level tested in average climate conditions: a) Heating: outdoor air temperature 7°C DB, 6°C WB; EWT 30°C, LWT 35°C; b) Heating: outdoor air temperature 7°C DB, 6°C WB; EWT 47°C, LWT 55°C; c) Cooling: outdoor air temperature 35°C DB, 24°C WB; EWT 12°C, LWT 7°C.


A+++


Refrigerant gas



Inverter



Controller included



Wi-Fi included

| | | | MHPP12RP24MI | MHPP14RP24MI | MHPP16RP24MI |
|---|----------------|-------------------|--------------|--------------|--------------|
| Power supply | | V/Ph/Hz | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 |
| HEATING ² | Capacity | kW | 12.20 | 14.10 | 16.00 |
| | Rated input | kW | 2.49 | 3.00 | 3.55 |
| | COP | | 4.90 | 4.70 | 4.50 |
| HEATING ³ | Capacity | kW | 12.00 | 14.00 | 16.00 |
| | Rated input | kW | 4.00 | 4.74 | 5.61 |
| | COP | | 3.00 | 2.95 | 2.85 |
| COOLING ⁴ | Capacity | kW | 12.20 | 13.90 | 15.40 |
| | Rated input | kW | 2.65 | 3.15 | 3.66 |
| | EER | | 4.60 | 4.40 | 4.20 |
| COOLING ⁵ | Capacity | kW | 11.60 | 13.40 | 14.00 |
| | Rated input | kW | 3.74 | 4.57 | 4.82 |
| | EER | | 3.10 | 2.93 | 2.90 |
| Seasonal space heating energy efficiency class ⁶ | LWT at 35 °C | | A+++ | A+++ | A+++ |
| | LWT at 55 °C | | A++ | A++ | A++ |
| SCOP ⁶ | LWT at 35 °C | | 5.08 | 4.89 | 4.84 |
| | LWT at 55 °C | | 3.61 | 3.62 | 3.59 |
| SEER ⁶ | LWT at 7 °C | | 5.07 | 5.09 | 5.11 |
| | LWT at 18 °C | | 7.79 | 7.59 | 7.49 |
| Sound power level ⁷ | | dB(A) | 70 | 72 | 72 |
| Outdoor fan | Air flow | m ³ /h | 5200 | 5200 | 5200 |
| Net dimensions (WxHxD) | | mm | 1040x865x410 | 1040x865x410 | 1040x865x410 |
| Packed dimensions (WxHxD) | | mm | 1190x970x560 | 1190x970x560 | 1190x970x560 |
| Net/gross weight | | kg | 106/122 | 106/122 | 106/122 |
| Water piping connections | | inch | 1-1/4" BSP | 1-1/4" BSP | 1-1/4" BSP |
| Safety valve set pressure | | MPa | 0.3 | 0.3 | 0.3 |
| Total water volume | | L | 5 | 5 | 5 |
| Operating temperature range | Cooling | °C | -5-43 | -5-43 | -5-43 |
| | Heating | °C | -25-35 | -25-35 | -25-35 |
| | DHW | °C | -25-43 | -25-43 | -25-43 |
| LWT range | Cooling | °C | 5-30 | 5-30 | 5-30 |
| | Heating | °C | 12-65 | 12-65 | 12-65 |
| | DHW | °C | 10-60 | 10-60 | 10-60 |
| Refrigerant | Type | | R32 (675) | R32 (675) | R32 (675) |
| | Charged volume | kg | 1.8 | 1.8 | 1.8 |
| Expansion valve | | | Electronic | Electronic | Electronic |
| Backup electric heater | Optional | kW | 3.00 | 3.00 | 3.00 |

1) Relevant Eu standards and legislation: EN14511: 2016; EN14825: 2016; EN50564: 2011; EN12102: 2017; [EU] N° 811/2013; [EU] N° 813/2013; OJ 2014/C 207/02; OJ 2017/C 229/01. 2) Outdoor air temperature 7°C DB, 85% R.H.; EWT 30°C, LWT 35°C. 3) Outdoor air temperature 7°C DB, 85% R.H.; EWT 47°C, LWT 55°C. 4) Outdoor air temperature 35°C DB; EWT 23°C, LWT 18°C. 5) Outdoor air temperature 35°C DB; EWT 12°C, LWT 7°C. 6) Seasonal space heating energy efficiency class tested in average climate conditions. 7) Sound power level tested in average climate conditions: a) Heating: outdoor air temperature 7°C DB, 6°C WB; EWT 30°C, LWT 35°C; b) Heating: outdoor air temperature 7°C DB, 6°C WB; EWT 47°C, LWT 55°C; c) Cooling: outdoor air temperature 35°C DB, 24°C WB; EWT 12°C, LWT 7°C.



A+++



Refrigerant gas



Inverter



Controller included



Wi-Fi included

| | | | MHPP12RP24P3MI | MHPP14RP24P3MI | MHPP16RP24P3MI |
|---|----------------|-------------------|----------------|----------------|----------------|
| Power supply | | V/Ph/Hz | 380-415/3/50 | 380-415/3/50 | 380-415/3/50 |
| HEATING ² | Capacity | kW | 12.20 | 14.10 | 16.00 |
| | Rated input | kW | 2.49 | 3.00 | 3.55 |
| | COP | | 4.90 | 4.70 | 4.50 |
| HEATING ³ | Capacity | kW | 12.00 | 14.00 | 16.00 |
| | Rated input | kW | 4.00 | 4.74 | 5.61 |
| | COP | | 3.00 | 2.95 | 2.85 |
| COOLING ⁴ | Capacity | kW | 12.20 | 13.90 | 15.40 |
| | Rated input | kW | 2.65 | 3.15 | 3.66 |
| | EER | | 4.60 | 4.40 | 4.20 |
| COOLING ⁵ | Capacity | kW | 11.60 | 13.40 | 14.00 |
| | Rated input | kW | 3.74 | 4.57 | 4.82 |
| | EER | | 3.10 | 2.93 | 2.90 |
| Seasonal space heating energy efficiency class ⁶ | LWT at 35 °C | | A+++ | A+++ | A+++ |
| | LWT at 55 °C | | A++ | A++ | A++ |
| SCOP ⁶ | LWT at 35 °C | | 5.08 | 4.89 | 4.84 |
| | LWT at 55 °C | | 3.61 | 3.62 | 3.59 |
| SEER ⁶ | LWT at 7 °C | | 5.11 | 5.12 | 5.14 |
| | LWT at 18 °C | | 7.86 | 7.65 | 7.54 |
| Sound power level ⁷ | | dB(A) | 70 | 72 | 72 |
| Outdoor fan | Air flow | m ³ /h | 5200 | 5200 | 5200 |
| Net dimensions (WxHxD) | | mm | 1040x865x410 | 1040x865x410 | 1040x865x410 |
| Packed dimensions (WxHxD) | | mm | 1190x970x560 | 1190x970x560 | 1190x970x560 |
| Net/gross weight | | kg | 120/136 | 120/136 | 120/136 |
| Water piping connections | | inch | 1-1/4" BSP | 1-1/4" BSP | 1-1/4" BSP |
| Safety valve set pressure | | MPa | 0.3 | 0.3 | 0.3 |
| Total water volume | | L | 5 | 5 | 5 |
| Operating temperature range | Cooling | °C | -5-43 | -5-43 | -5-43 |
| | Heating | °C | -25-35 | -25-35 | -25-35 |
| | DHW | °C | -25-43 | -25-43 | -25-43 |
| LWT range | Cooling | °C | 5-30 | 5-30 | 5-30 |
| | Heating | °C | 12-65 | 12-65 | 12-65 |
| | DHW | °C | 10-60 | 10-60 | 10-60 |
| Refrigerant | Type | | R32 (675) | R32 (675) | R32 (675) |
| | Charged volume | kg | 1.8 | 1.8 | 1.8 |
| Expansion valve | | | Electronic | Electronic | Electronic |
| Backup electric heater | Optional | kW | 3.00 | 3.00 | 3.00 |

1) Relevant Eu standards and legislation: EN14511: 2016; EN14825: 2016; EN50564: 2011; EN12102: 2017; [EU] N° 811/2013; [EU] N° 813/2013; OJ 2014/C 207/02; OJ 2017/C 229/01. 2) Outdoor air temperature 7°C DB, 85% R.H.; EWT 30°C, LWT 35°C. 3) Outdoor air temperature 7°C DB, 85% R.H.; EWT 47°C, LWT 55°C. 4) Outdoor air temperature 35°C DB; EWT 23°C, LWT 18°C. 5) Outdoor air temperature 35°C DB; EWT 12°C, LWT 7°C. 6) Seasonal space heating energy efficiency class tested in average climate conditions. 7) Sound power level tested in average climate conditions: a) Heating: outdoor air temperature 7°C DB, 6°C WB; EWT 30°C, LWT 35°C; b) Heating: outdoor air temperature 7°C DB, 6°C WB; EWT 47°C, LWT 55°C; c) Cooling: outdoor air temperature 35°C DB, 24°C WB; EWT 12°C, LWT 7°C.



22 kW



30 kW



Refrigerant
gas



Inverter



Controller
included



Wi-Fi
included

| | | | MHPP22RP24P3MI | MHPP30RP24P3MI |
|---|----------------|----------|----------------|----------------|
| Power supply | | V/Ph/Hz | 380-415/3/50 | 380-415/3/50 |
| HEATING ² | Capacity | kW | 22.0 | 30.1 |
| | Rated input | kW | 5.0 | 7.70 |
| | COP | | 4.40 | 3.91 |
| HEATING ³ | Capacity | kW | 22.0 | 30.0 |
| | Rated input | kW | 8.30 | 13.04 |
| | COP | | 2.65 | 2.30 |
| COOLING ⁴ | Capacity | kW | 23.0 | 31.0 |
| | Rated input | kW | 5.0 | 7.75 |
| | EER | | 4.6 | 4.00 |
| COOLING ⁵ | Capacity | kW | 21.0 | 29.5 |
| | Rated input | kW | 7.12 | 11.57 |
| | EER | | 2.95 | 2.55 |
| Seasonal space heating energy efficiency class ⁶ | LWT a 35 °C | | A+++ | A++ |
| | LWT a 55 °C | | A++ | A+ |
| SCOP ⁶ | LWT a 35 °C | | 4.53 | 4.19 |
| | LWT a 55 °C | | 3.22 | 3.14 |
| SEER ⁶ | LWT a 7 °C | | 4.70 | 4.49 |
| | LWT a 18 °C | | 5.67 | 5.71 |
| Sound power level ⁷ | | dB(A) | 73 | 77 |
| Net dimensions (WxHxD) | | mm | 1129×1558×440 | 1129×1558×440 |
| Packed dimensions (WxHxD) | | mm | 1220×1735×565 | 1220×1735×565 |
| Net/gross weight | | kg | 177 / 206 | 177 / 206 |
| Water piping connections | | inch | 1-1/4" BSP | 1-1/4" BSP |
| Safety valve set pressure | | MPa | 0,3 | 0,3 |
| Total water volume | | L | 12 | 12 |
| Operating temperature range | Cooling | °C | -5-46 | -5-46 |
| | Heating | °C | -25-35 | -25-35 |
| | DHW | °C | -25-43 | -25-43 |
| LWT range | Cooling | °C | 5-25 | 5-25 |
| | Heating | °C | 25-60 | 25-60 |
| | DHW | °C | 40-60 | 40-60 |
| Refrigerant | Type | | R32 (675) | R32 (675) |
| | Charged volume | kg | 5.0 | 5.0 |
| Expansion valve | | | Electronic | Electronic |
| Backup electric heater | | Optional | kW | 3.0 |

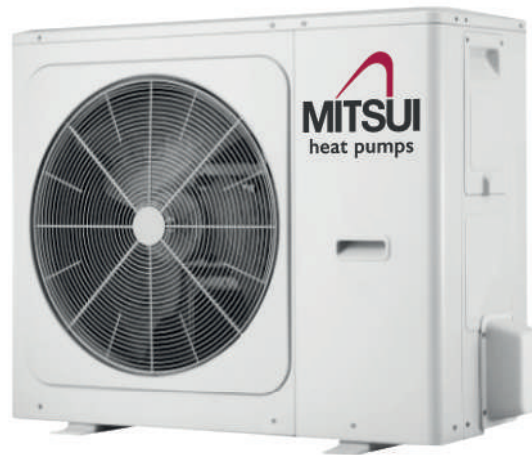
1) Relevant Eu standards and legislation: EN14511: 2016; EN14825: 2016; EN50564: 2011; EN12102: 2017; [EU] N° 811/2013; OJ 2014/C 207/02. 2) Outdoor air temperature 7°C DB, 85% R.H.; EWT 30°C, LWT 35°C. 3) Outdoor air temperature 7°C DB, 85% R.H.; EWT 47°C, LWT 55°C. 4) Outdoor air temperature 35°C DB; EWT 23°C, LWT 18°C. 5) Outdoor air temperature 35°C DB; EWT 12°C, LWT 7°C. 6) Seasonal space heating energy efficiency class tested in average climate conditions. 7) Test standard: EN12102-1



| | | BH30A |
|------------------------------|---------|--------------|
| Power supply | V/Ph/Hz | 220-240/1/50 |
| Capacity | kW | 3.0 |
| Rated current | A | 13 |
| Dimensions (HxDxW) | mm | 780x220x280 |
| Packed dimensions (HxDxW) | mm | 890x325x385 |
| Net/gross weight | kg | 18.5/24 |
| Operation range | °C | 5-35 |
| In/Out water piping diameter | inch | G1 |

SPLIT LINE

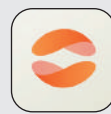
SINGLE-FAN HEAT PUMPS



- Wi-fi included
- Wide operating range
- Multifunction controller with backlit display for remote control
- Temperature sensor for DHW tank as standard
- Temperature sensor for technical water puffer (optional)
- Cooling / heating / DHW
- Smart Grid function for integration and management with solar system
- Max. heating water temperature 65°C
- Up to 6 cascade units



Mega HP



Comfort Home

Products controllable via the dedicated **Comfort Home** and **Mega HP** apps





Refrigerant
gas



Inverter



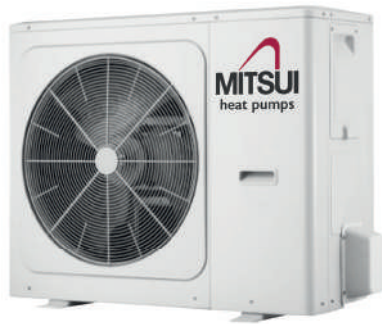
Controller
included



Wi-Fi
included

| OUTDOOR UNIT | | | SHPA4RP24MI | SHPA6RP24MI |
|--|---------------------------|---------------|--------------------------------|------------------|
| Power supply | | | V/Ph/Hz | 220-240/1/50 |
| HEATING ² | Capacity | kW | 4.25 | 6.20 |
| | Rated input | kW | 0.82 | 1.24 |
| | COP | | 5.20 | 5.00 |
| HEATING ³ | Capacity | kW | 4.35 | 6.00 |
| | Rated input | kW | 1.14 | 2.00 |
| | COP | | 3.80 | 3.00 |
| COOLING ⁴ | Capacity | kW | 4.50 | 6.55 |
| | Rated input | kW | 0.81 | 1.34 |
| | EER | | 5.55 | 4.90 |
| COOLING ⁵ | Capacity | kW | 4.70 | 7.00 |
| | Rated input | kW | 1.36 | 2.33 |
| | EER | | 3.45 | 3.00 |
| Seasonal space heating energy class ⁵ | LWT at 35 °C | | A+++ | A+++ |
| | LWT at 55 °C | | A++ | A++ |
| SCOP ⁶ | LWT at 35 °C | | 4.85 | 4.95 |
| | LWT at 55 °C | | 3.31 | 3.52 |
| SEER ⁶ | LWT at 7 °C | | 4.99 | 5.34 |
| | LWT at 18 °C | | 7.77 | 8.21 |
| Sound power level ⁷ | | | dB(A) | 56 |
| Dimensions (WxHxD) | | | mm | 1007x712x426 |
| Net/gross weight | | | kg | 58/64 |
| FGAS piping connections | Liquid | Type/Dia.(OD) | mm | Flaring / ø 6.35 |
| | Gas | Type/Dia.(OD) | mm | Flaring / ø 15.9 |
| | Piping length (min - max) | | m | 2 a 30 |
| | Installation height | | Outdoor Unit (upside-downside) | m |
| Refrigerant | Type / Charged volume | | kg | R32/1.50 |
| Expansion valve | | | | Electronic |
| Operating temperature range | Cooling | °C | -5~43 | -5~43 |
| | Heating | °C | -25~35 | -25~35 |
| | DHW | °C | -25~43 | -25~43 |
| INDOOR UNIT | | | SHPAI60RP24MI | |
| Power supply | | | V/Ph/Hz | 220-240/1/50 |
| Sound power level ⁷ | | | dB(A) | 38 |
| Dimensions (WxHxD) | | | mm | 420x790x270 |
| Net/gross weight | | | kg | 37/43 |
| Water circuit | Piping connections | | inch | 1" |
| | Safety valve | | MPa | 0.3 |
| | Drainage pipe diameter | | mm | ø 25 |
| | Expansion tank | Volume | L | 8.0 |
| | Water side heat exchanger | Type | | Plate |
| | Water pump head | | m | 9.0 |
| LWT range | Cooling | °C | 5~25 | 5~25 |
| | Heating | °C | 25~65 | 25~65 |
| | DHW | °C | 40~60 | 40~60 |
| BACKUP ELECTRIC HEATER (Optional) | | | kW | 3.0 |

1) Relevant Eu standards and legislation: EN14511: 2018; EN14825: 2018; EN50564: 2011; EN12102: 2017; [EU] N° 811/2013; [EU] N° 813/2013; OJ 2014/C 207/02; OJ 2017/C 229/01. 2) Outdoor air temperature 7°C DB, 85% R.H.; EWT 30°C, LWT 35°C. 3) Outdoor air temperature 7°C DB, 85% R.H.; EWT 47°C, LWT 55°C. 4) Outdoor air temperature 35°C DB; EWT 23°C, LWT 18°C. 5) Outdoor air temperature 35°C DB; EWT 12°C, LWT 7°C. 6) Seasonal space heating energy efficiency class tested in average climate conditions. 7) Sound power level tested in heating conditions with outdoor air temperature 7°C DB, 6°C WB; EWT 30°C, LWT 35°C;



Refrigerant gas



Inverter



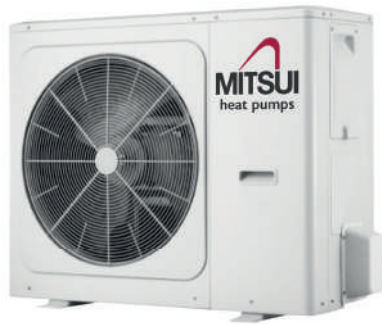
Controller included



Wi-Fi included

| OUTDOOR UNIT | | | SHPA8RP24MI | SHPA10RP24MI |
|--|---------------------------|---------------|--------------------------------|------------------|
| Power supply | | V/Ph/Hz | 220-240/1/50 | 220-240/1/50 |
| HEATING ² | Capacity | kW | 8.30 | 10.0 |
| | Rated input | kW | 1.60 | 2.00 |
| | COP | | 5.20 | 5.00 |
| HEATING ³ | Capacity | kW | 7.50 | 9.50 |
| | Rated input | kW | 2.36 | 3.06 |
| | COP | | 3.18 | 3.10 |
| COOLING ⁴ | Capacity | kW | 8.40 | 10.0 |
| | Rated input | kW | 1.66 | 2.08 |
| | EER | | 5.05 | 4.80 |
| COOLING ⁵ | Capacity | kW | 7.40 | 8.20 |
| | Rated input | kW | 2.19 | 2.48 |
| | EER | | 3.38 | 3.30 |
| Seasonal space heating energy class ⁵ | LWT at 35 °C | | A+++ | A+++ |
| | LWT at 55 °C | | A++ | A++ |
| SCOP ⁶ | LWT at 35 °C | | 5.21 | 5.19 |
| | LWT at 55 °C | | 3.36 | 3.49 |
| SEER ⁶ | LWT at 7 °C | | 5.83 | 5.98 |
| | LWT at 18 °C | | 8.95 | 8.78 |
| Sound power level ⁷ | | dB(A) | 59 | 60 |
| Dimensions (WxHxD) | | mm | 1118x864x523 | 1118x864x523 |
| Net/gross weight | | kg | 77/88 | 77/88 |
| FGAS piping connections | Liquid | Type/Dia.(OD) | mm | Flaring / ø 9.52 |
| | Gas | Type/Dia.(OD) | mm | Flaring / ø 15.9 |
| | Piping length (min - max) | | m | 2 a 30 |
| | Installation height | | Outdoor Unit (upside-downside) | m |
| Refrigerant | Type / Charged volume | | kg | R32/1.65 |
| Expansion valve | | | | Electronic |
| Operating temperature range | Cooling | °C | -5~43 | -5~43 |
| | Heating | °C | -25~35 | -25~35 |
| | DHW | °C | -25~43 | -25~43 |
| INDOOR UNIT | | | SHPAI100RP24MI | |
| Power supply | | V/Ph/Hz | 220-240/1/50 | |
| Sound power level ⁷ | | dB(A) | 42 | |
| Dimensions (WxHxD) | | mm | 420x790x270 | |
| Net/gross weight | | kg | 37/43 | |
| Water circuit | Piping connections | | inch | 1" |
| | Safety valve | | MPa | 0.3 |
| | Drainage pipe diameter | | mm | ø 25 |
| | Expansion tank | | Volume | L |
| | Water side heat exchanger | | Type | Plate |
| | Water pump head | | m | 9.0 |
| LWT range | Cooling | °C | 5~25 | |
| | Heating | °C | 25~65 | |
| | DHW | °C | 40~60 | |
| BACKUP ELECTRIC HEATER (Optional) | | kW | 3.0 | |

1) Relevant Eu standards and legislation: EN14511: 2018; EN14825: 2018; EN50564: 2011; EN12102: 2017; [EU] N° 811/2013; [EU] N° 813/2013; OJ 2014/C 207/02; OJ 2017/C 229/01. 2) Outdoor air temperature 7°C DB, 85% R.H.; EWT 30°C, LWT 35°C. 3) Outdoor air temperature 7°C DB, 85% R.H.; EWT 47°C, LWT 55°C. 4) Outdoor air temperature 35°C DB; EWT 23°C, LWT 18°C. 5) Outdoor air temperature 35°C DB; EWT 12°C, LWT 7°C. 6) Seasonal space heating energy efficiency class tested in average climate conditions. 7) Sound power level tested in heating conditions with outdoor air temperature 7°C DB, 6°C WB; EWT 30°C, LWT 35°C;



Refrigerant
gas



Inverter



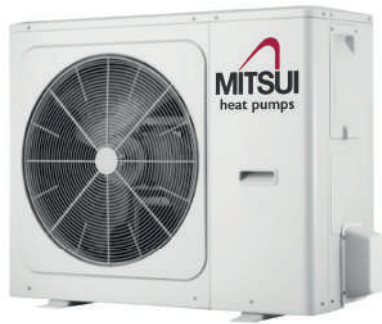
Controller
included



Wi-Fi
included

| OUTDOOR UNIT | | | SHPA12RP24MI | SHPA14RP24MI | SHPA16RP24MI | |
|--|---------------------------|---------------|--------------------------------|------------------|------------------|------------------|
| Power supply | | V/Ph/Hz | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 | |
| HEATING ² | Capacity | kW | 12.1 | 14.5 | 16.0 | |
| | Rated input | kW | 2.44 | 3.09 | 3.56 | |
| | COP | | 4.95 | 4.70 | 4.50 | |
| HEATING ³ | Capacity | kW | 12.0 | 13.8 | 16.0 | |
| | Rated input | kW | 3.87 | 4.60 | 5.52 | |
| | COP | | 3.10 | 3.00 | 2.90 | |
| COOLING ⁴ | Capacity | kW | 12.0 | 13.50 | 14.20 | |
| | Rated input | kW | 3.00 | 3.74 | 3.94 | |
| | EER | | 4.00 | 3.61 | 3.61 | |
| COOLING ⁵ | Capacity | kW | 11.6 | 12.7 | 14.0 | |
| | Rated input | kW | 4.22 | 4.98 | 5.71 | |
| | EER | | 2.75 | 2.55 | 2.45 | |
| Seasonal space heating energy class ⁵ | LWT at 35 °C | | A+++ | A+++ | A+++ | |
| | LWT at 55 °C | | A++ | A++ | A++ | |
| SCOP ⁶ | LWT at 35 °C | | 4.81 | 4.72 | 4.62 | |
| | LWT at 55 °C | | 3.45 | 3.47 | 3.41 | |
| SEER ⁶ | LWT at 7 °C | | 4.89 | 4.86 | 4.69 | |
| | LWT at 18 °C | | 7.1 | 6.9 | 6.75 | |
| Sound power level ⁷ | | dB(A) | 64 | 65 | 68 | |
| Dimensions (WxHxD) | | mm | 1118x864x523 | 1118x864x523 | 1118x864x523 | |
| Net/gross weight | | kg | 96/110 | 96/110 | 96/110 | |
| FGAS piping connections | Liquid | Type/Dia.(OD) | mm | Flaring / ø 9.52 | Flaring / ø 9.52 | Flaring / ø 9.52 |
| | Gas | Type/Dia.(OD) | mm | Flaring / ø 15.9 | Flaring / ø 15.9 | Flaring / ø 15.9 |
| | Piping length (min - max) | | m | 2 a 30 | 2 a 30 | 2 a 30 |
| | Installation height | | Outdoor Unit (upside-downside) | m | 20/20 | 20/20 |
| Refrigerant | Type / Charged volume | | kg | R32/1.84 | R32/1.84 | R32/1.84 |
| Expansion valve | | | | Electronic | Electronic | Electronic |
| Operating temperature range | Cooling | °C | -5~43 | -5~43 | -5~43 | |
| | Heating | °C | -25~35 | -25~35 | -25~35 | |
| | DHW | °C | -25~43 | -25~43 | -25~43 | |
| INDOOR UNIT | | | SHPAI160RP24MI | | | |
| Power supply | | V/Ph/Hz | 220-240/1/50 | | | |
| Sound power level ⁷ | | dB(A) | 43 | | | |
| Dimensions (WxHxD) | | mm | 420x790x270 | | | |
| Net/gross weight | | kg | 39/45 | | | |
| Water circuit | Piping connections | | inch | 1" | | |
| | Safety valve | | MPa | 0.3 | | |
| | Drainage pipe diameter | | mm | ø 25 | | |
| | Expansion tank | Volume | L | 8.0 | | |
| | Water side heat exchanger | Type | | Plate | | |
| Water pump head | | m | 9.0 | | | |
| LWT range | Cooling | °C | 5~25 | | | |
| | Heating | °C | 25~65 | | | |
| | DHW | °C | 40~60 | | | |
| BACKUP ELECTRIC HEATER (Optional) | | kW | 3.0 | | | |

1) Relevant Eu standards and legislation: EN14511: 2018; EN14825: 2018; EN50564: 2011; EN12102: 2017; [EU] N° 811/2013; [EU] N° 813/2013; OJ 2014/C 207/02; OJ 2017/C 229/01. 2) Outdoor air temperature 7°C DB, 85% R.H.; EWT 30°C, LWT 35°C. 3) Outdoor air temperature 7°C DB, 85% R.H.; EWT 47°C, LWT 55°C. 4) Outdoor air temperature 35°C DB; EWT 23°C, LWT 18°C. 5) Outdoor air temperature 35°C DB; EWT 12°C, LWT 7°C. 6) Seasonal space heating energy efficiency class tested in average climate conditions. 7) Sound power level tested in heating conditions with outdoor air temperature 7°C DB, 6°C WB; EWT 30°C, LWT 35°C;



Refrigerant gas



Inverter



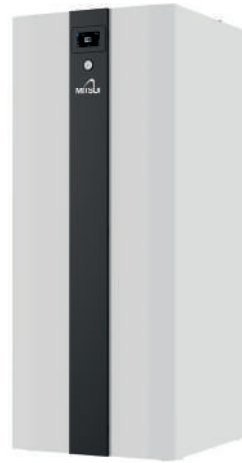
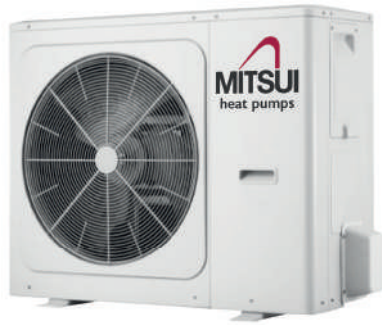
Controller included



Wi-Fi included

| OUTDOOR UNIT | | | SHPA12RP24P3MI | SHPA14RP24P3MI | SHPA16RP24P3MI | |
|--|---------------------------|---------------|--------------------------------|------------------|------------------|--------|
| Power supply | | V/Ph/Hz | 380-415/3/50 | 380-415/3/50 | 380-415/3/50 | |
| HEATING ² | Capacity | kW | 12.1 | 14.5 | 16.0 | |
| | Rated input | kW | 2.44 | 3.09 | 3.56 | |
| | COP | | 4.95 | 4.70 | 4.50 | |
| HEATING ³ | Capacity | kW | 12.0 | 13.8 | 16.0 | |
| | Rated input | kW | 3.87 | 4.60 | 5.52 | |
| | COP | | 3.10 | 3.00 | 2.90 | |
| COOLING ⁴ | Capacity | kW | 12.0 | 13.50 | 14.20 | |
| | Rated input | kW | 3.00 | 3.74 | 3.94 | |
| | EER | | 4.00 | 3.61 | 3.61 | |
| COOLING ⁵ | Capacity | kW | 11.6 | 12.7 | 14.0 | |
| | Rated input | kW | 4.22 | 4.98 | 5.71 | |
| | EER | | 2.75 | 2.55 | 2.45 | |
| Seasonal space heating energy class ⁵ | LWT at 35 °C | | A+++ | A+++ | A+++ | |
| | LWT at 55 °C | | A++ | A++ | A++ | |
| SCOP ⁶ | LWT at 35 °C | | 4.81 | 4.72 | 4.62 | |
| | LWT at 55 °C | | 3.45 | 3.47 | 3.41 | |
| SEER ⁶ | LWT at 7 °C | | 4.86 | 4.83 | 4.67 | |
| | LWT at 18 °C | | 7.04 | 6.85 | 6.71 | |
| Sound power level ⁷ | | dB(A) | 64 | 65 | 68 | |
| Dimensions (WxHxD) | | mm | 1118x864x523 | 1118x864x523 | 1118x864x523 | |
| Net/gross weight | | kg | 112/125 | 112/125 | 112/125 | |
| FGAS piping connections | Liquid | Type/Dia.(OD) | mm | Flaring / ø 9.52 | Flaring / ø 9.52 | |
| | Gas | Type/Dia.(OD) | mm | Flaring / ø 15.9 | Flaring / ø 15.9 | |
| | Piping length (min - max) | | m | 2 a 30 | 2 a 30 | 2 a 30 |
| | Installation height | | Outdoor Unit (upside-downside) | m | 20/20 | 20/20 |
| Refrigerant | Type / Charged volume | | kg | R32/1.84 | R32/1.84 | |
| Expansion valve | | | | Electronic | Electronic | |
| Operating temperature range | Cooling | °C | -5-43 | -5-43 | -5-43 | |
| | Heating | °C | -25-35 | -25-35 | -25-35 | |
| | DHW | °C | -25-43 | -25-43 | -25-43 | |
| INDOOR UNIT | | | SHPAI160RP24MI | | | |
| Power supply | | V/Ph/Hz | 220-240/1/50 | | | |
| Sound power level ⁷ | | dB(A) | 43 | | | |
| Dimensions (WxHxD) | | mm | 420x790x270 | | | |
| Net/gross weight | | kg | 39/45 | | | |
| Water circuit | Piping connections | | inch | 1" | | |
| | Safety valve | | MPa | 0.3 | | |
| | Drainage pipe diameter | | mm | ø 25 | | |
| | Expansion tank | Volume | L | 8.0 | | |
| | Water side heat exchanger | Type | | Plate | | |
| Water pump head | | m | 9.0 | | | |
| LWT range | Cooling | °C | 5-25 | | | |
| | Heating | °C | 25-65 | | | |
| | DHW | °C | 40-60 | | | |
| BACKUP ELECTRIC HEATER (Optional) | | kW | 3.0 | | | |

1) Relevant Eu standards and legislation: EN14511: 2018; EN14825: 2018; EN50564: 2011; EN12102: 2017; [EU] N° 811/2013; [EU] N° 813/2013; OJ 2014/C 207/02; OJ 2017/C 229/01. 2) Outdoor air temperature 7°C DB, 85% R.H.; EWT 30°C, LWT 35°C. 3) Outdoor air temperature 7°C DB, 85% R.H.; EWT 47°C, LWT 55°C. 4) Outdoor air temperature 35°C DB; EWT 23°C, LWT 18°C. 5) Outdoor air temperature 35°C DB; EWT 12°C, LWT 7°C. 6) Seasonal space heating energy efficiency class tested in average climate conditions. 7) Sound power level tested in heating conditions with outdoor air temperature 7°C DB, 6°C WB; EWT 30°C, LWT 35°C;



Refrigerant gas



Inverter



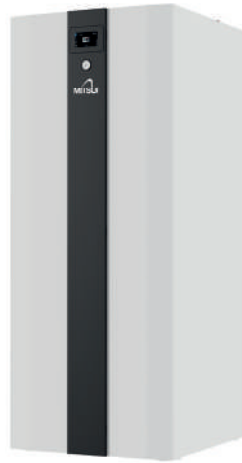
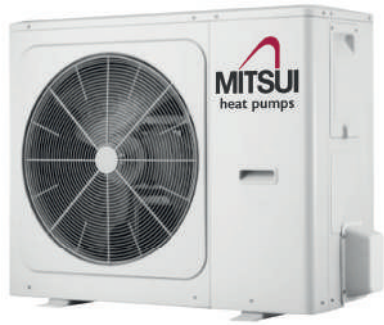
Controller included



Wi-Fi included

| OUTDOOR UNIT | | | | SHPA6RP24MI | SHPA8RP24MI | SHPA10RP24MI |
|--|---------------------------|---------------|--------------------------------|--------------------|------------------|------------------|
| Power supply | | | V/Ph/Hz | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 |
| HEATING ² | Capacity | | kW | 6.20 | 8.30 | 10.0 |
| | Rated input | | kW | 1.24 | 1.60 | 2.00 |
| | COP | | | 5.00 | 5.20 | 5.00 |
| HEATING ³ | Capacity | | kW | 6.00 | 7.50 | 9.50 |
| | Rated input | | kW | 2.00 | 2.36 | 3.06 |
| | COP | | | 3.00 | 3.18 | 3.10 |
| COOLING ⁴ | Capacity | | kW | 6.55 | 8.40 | 10.0 |
| | Rated input | | kW | 1.34 | 1.66 | 2.08 |
| | EER | | | 4.90 | 5.05 | 4.80 |
| COOLING ⁵ | Capacity | | kW | 7.00 | 7.40 | 8.20 |
| | Rated input | | kW | 2.33 | 2.19 | 2.48 |
| | EER | | | 3.00 | 3.38 | 3.30 |
| Seasonal space heating energy class ⁵ | LWT at 35 °C | | | A+++ | A+++ | A+++ |
| | LWT at 55 °C | | | A++ | A++ | A++ |
| SCOP ⁶ | LWT at 35 °C | | | 4.95 | 5.21 | 5.19 |
| | LWT at 55 °C | | | 3.52 | 3.36 | 3.49 |
| SEER ⁶ | LWT at 7 °C | | | 5.34 | 5.83 | 5.98 |
| | LWT at 18 °C | | | 8.21 | 8.95 | 8.78 |
| Sound power level ⁷ | | | dB(A) | 58 | 59 | 60 |
| Dimensions (WxHxD) | | | mm | 1007x712x426 | 1118x864x523 | 1118x864x523 |
| Net/gross weight | | | kg | 58/64 | 77/88 | 77/88 |
| FGAS piping connections | Liquid | Type/Dia.(OD) | mm | Flaring / ø 6.35 | Flaring / ø 9.52 | Flaring / ø 9.52 |
| | Gas | Type/Dia.(OD) | mm | Flaring / ø 15.9 | Flaring / ø 15.9 | Flaring / ø 15.9 |
| | Piping length (min - max) | | m | 2 a 30 | 2 a 30 | 2 a 30 |
| | Installation height | | Outdoor Unit (upside-downside) | m | 20/20 | 20/20 |
| Refrigerant | Type / Charged volume | | kg | R32/1.50 | R32/1.65 | R32/1.65 |
| Expansion valve | | | | Electronic | Electronic | Electronic |
| Operating temperature range | Cooling | | °C | -5-43 | -5-43 | -5-43 |
| | Heating | | °C | -25-35 | -25-35 | -25-35 |
| | DHW | | °C | -25-43 | -25-43 | -25-43 |
| INDOOR UNIT | | | | ONYX25010 | | |
| Power supply | | | V/Ph/Hz | 220-240/1/50 | | |
| Sound power level ⁷ | | | dB(A) | 40 | | |
| Dimensions (WxHxD) - Net weight | | | mm - kg | 700x1740x770 - 210 | | |
| DHW tank capacity | | | L | 250 | | |
| Water circuit | Piping connections | | inch | 1" | | |
| | Safety valve | | MPa | 0.3 | | |
| | Drainage pipe diameter | | mm | ø 25 | | |
| | Expansion tank | | Volume | L | | |
| | Water side heat exchanger | | Type | Plate | | |
| | Water pump head | | m | 8.0 | | |
| | DHW expansion tank | | Volume | L | | |
| ErP regulation | DHW profile | | | XL | | |
| | Energy efficiency class | | °C | A | | |
| Backup electric heater | Capacity | | kW | 2.0 | | |

1) Relevant Eu standards and legislation: EN14511: 2018; EN14825: 2018; EN50564: 2011; EN12102: 2017; [EU] N° 811/2013; [EU] N° 813/2013; OJ 2014/C 207/02; OJ 2017/C 229/01. 2) Outdoor air temperature 7°C DB, 85% R.H.; EWT 30°C, LWT 35°C. 3) Outdoor air temperature 7°C DB, 85% R.H.; EWT 47°C, LWT 55°C. 4) Outdoor air temperature 35°C DB; EWT 23°C, LWT 18°C. 5) Outdoor air temperature 35°C DB; EWT 12°C, LWT 7°C. 6) Seasonal space heating energy efficiency class tested in average climate conditions. 7) Sound power level tested in heating conditions with outdoor air temperature 7°C DB, 6°C WB; EWT 30°C, LWT 35°C;



Refrigerant gas



Inverter



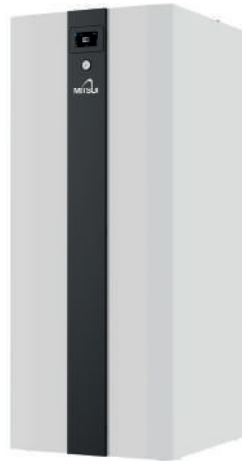
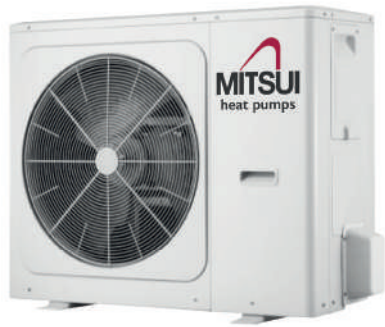
Controller included



Wi-Fi included

| OUTDOOR UNIT | | | | SHPA12RP24MI | SHPA14RP24MI | SHPA16RP24MI |
|--|---------------------------|---------------|--------------------------------|--------------------|------------------|------------------|
| Power supply | | | V/Ph/Hz | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 |
| HEATING ² | Capacity | | kW | 12.1 | 14.5 | 16.0 |
| | Rated input | | kW | 2.44 | 3.09 | 3.56 |
| | COP | | | 4.95 | 4.70 | 4.50 |
| HEATING ³ | Capacity | | kW | 12.0 | 13.8 | 16.0 |
| | Rated input | | kW | 3.87 | 4.60 | 5.52 |
| | COP | | | 3.10 | 3.00 | 2.90 |
| COOLING ⁴ | Capacity | | kW | 12.0 | 13.50 | 14.20 |
| | Rated input | | kW | 3.00 | 3.74 | 3.94 |
| | EER | | | 4.00 | 3.61 | 3.61 |
| COOLING ⁵ | Capacity | | kW | 11.6 | 12.7 | 14.0 |
| | Rated input | | kW | 4.22 | 4.98 | 5.71 |
| | EER | | | 2.75 | 2.55 | 2.45 |
| Seasonal space heating energy class ⁵ | LWT at 35 °C | | | A+++ | A+++ | A+++ |
| | LWT at 55 °C | | | A++ | A++ | A++ |
| SCOP ⁶ | LWT at 35 °C | | | 4.81 | 4.72 | 4.62 |
| | LWT at 55 °C | | | 3.45 | 3.47 | 3.41 |
| SEER ⁶ | LWT at 7 °C | | | 4.89 | 4.86 | 4.69 |
| | LWT at 18 °C | | | 7.1 | 6.9 | 6.75 |
| Sound power level ⁷ | | | dB(A) | 64 | 65 | 68 |
| Dimensions (WxHxD) | | | mm | 1118x864x523 | 1118x864x523 | 1118x864x523 |
| Net/gross weight | | | kg | 96/110 | 96/110 | 96/110 |
| FGAS piping connections | Liquid | Type/Dia.(OD) | mm | Flaring / ø 9.52 | Flaring / ø 9.52 | Flaring / ø 9.52 |
| | Gas | Type/Dia.(OD) | mm | Flaring / ø 15.9 | Flaring / ø 15.9 | Flaring / ø 15.9 |
| | Piping length (min - max) | | m | 2 a 30 | 2 a 30 | 2 a 30 |
| | Installation height | | Outdoor Unit (upside-downside) | m | 20/20 | 20/20 |
| Refrigerant | Type / Charged volume | | kg | R32/1.84 | R32/1.84 | R32/1.84 |
| Expansion valve | | | | Electronic | Electronic | Electronic |
| Operating temperature range | Cooling | | °C | -5-43 | -5-43 | -5-43 |
| | Heating | | °C | -25-35 | -25-35 | -25-35 |
| | DHW | | °C | -25-43 | -25-43 | -25-43 |
| INDOOR UNIT | | | | ONYX25016 | | |
| Power supply | | | V/Ph/Hz | 220-240/1/50 | | |
| Sound power level ⁷ | | | dB(A) | 40 | | |
| Dimensions (WxHxD) - Net weight | | | mm - kg | 700x1740x770 - 210 | | |
| DHW tank capacity | | | L | 250 | | |
| Water circuit | Piping connections | | inch | 1" | | |
| | Safety valve | | MPa | 0.3 | | |
| | Drainage pipe diameter | | mm | ø 25 | | |
| | Expansion tank | | Volume | L | | |
| | Water side heat exchanger | | Type | Plate | | |
| | Water pump head | | m | 8.0 | | |
| | DHW expansion tank | | Volume | L | | |
| ErP regulation | DHW profile | | | XL | | |
| | Energy efficiency class | | °C | A | | |
| Backup electric heater | Capacity | | kW | 2.0 | | |

1) Relevant Eu standards and legislation: EN14511: 2018; EN14825: 2018; EN50564: 2011; EN12102: 2017; [EU] N° 811/2013; [EU] N° 813/2013; OJ 2014/C 207/02; OJ 2017/C 229/01. 2) Outdoor air temperature 7°C DB, 85% R.H.; EWT 30°C, LWT 35°C. 3) Outdoor air temperature 7°C DB, 85% R.H.; EWT 47°C, LWT 55°C. 4) Outdoor air temperature 35°C DB; EWT 23°C, LWT 18°C. 5) Outdoor air temperature 35°C DB; EWT 12°C, LWT 7°C. 6) Seasonal space heating energy efficiency class tested in average climate conditions. 7) Sound power level tested in heating conditions with outdoor air temperature 7°C DB, 6°C WB; EWT 30°C, LWT 35°C;



A+++



Refrigerant gas



Inverter



Controller included



Wi-Fi included

| OUTDOOR UNIT | | | | SHPA12RP24P3MI | SHPA14RP24P3MI | SHPA16RP24P3MI |
|--|---------------------------|--------------------------------|---------|--------------------|------------------|------------------|
| Power supply | | | V/Ph/Hz | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 |
| HEATING ² | Capacity | | kW | 12.1 | 14.5 | 16.0 |
| | Rated input | | kW | 2.44 | 3.09 | 3.56 |
| | COP | | | 4.95 | 4.70 | 4.50 |
| HEATING ³ | Capacity | | kW | 12.0 | 13.8 | 16.0 |
| | Rated input | | kW | 3.87 | 4.60 | 5.52 |
| | COP | | | 3.10 | 3.00 | 2.90 |
| COOLING ⁴ | Capacity | | kW | 12.0 | 13.50 | 14.20 |
| | Rated input | | kW | 3.00 | 3.74 | 3.94 |
| | EER | | | 4.00 | 3.61 | 3.61 |
| COOLING ⁵ | Capacity | | kW | 11.6 | 12.7 | 14.0 |
| | Rated input | | kW | 4.22 | 4.98 | 5.71 |
| | EER | | | 2.75 | 2.55 | 2.45 |
| Seasonal space heating energy class ⁵ | LWT at 35 °C | | | A+++ | A+++ | A+++ |
| | LWT at 55 °C | | | A++ | A++ | A++ |
| SCOP ⁶ | LWT at 35 °C | | | 4.81 | 4.72 | 4.62 |
| | LWT at 55 °C | | | 3.45 | 3.47 | 3.41 |
| SEER ⁶ | LWT at 7 °C | | | 4.89 | 4.86 | 4.69 |
| | LWT at 18 °C | | | 7.1 | 6.9 | 6.75 |
| Sound power level ⁷ | | | dB(A) | 64 | 65 | 68 |
| Dimensions (WxHxD) | | | mm | 1118x864x523 | 1118x864x523 | 1118x864x523 |
| Net/gross weight | | | kg | 96/110 | 96/110 | 96/110 |
| FGAS piping connections | Liquid | Type/Dia.(OD) | mm | Flaring / ø 9.52 | Flaring / ø 9.52 | Flaring / ø 9.52 |
| | Gas | Type/Dia.(OD) | mm | Flaring / ø 15.9 | Flaring / ø 15.9 | Flaring / ø 15.9 |
| | Piping length (min - max) | | m | 2 a 30 | 2 a 30 | 2 a 30 |
| | Installation height | Outdoor Unit (upside-downside) | m | 20/20 | 20/20 | 20/20 |
| Refrigerant | Type / Charged volume | | kg | R32/1.84 | R32/1.84 | R32/1.84 |
| Expansion valve | | | | Electronic | Electronic | Electronic |
| Operating temperature range | Cooling | | °C | -5-43 | -5-43 | -5-43 |
| | Heating | | °C | -25-35 | -25-35 | -25-35 |
| | DHW | | °C | -25-43 | -25-43 | -25-43 |
| INDOOR UNIT | | | | ONYX25016 | | |
| Power supply | | | V/Ph/Hz | 220-240/1/50 | | |
| Sound power level ⁷ | | | dB(A) | 40 | | |
| Dimensions (WxHxD) - Net weight | | | mm - kg | 700x1740x770 - 210 | | |
| DHW tank capacity | | | L | 250 | | |
| Water circuit | Piping connections | | inch | 1" | | |
| | Safety valve | | MPa | 0.3 | | |
| | Drainage pipe diameter | | mm | ø 25 | | |
| | Expansion tank | Volume | L | 8.0 | | |
| | Water side heat exchanger | Type | | Plate | | |
| | Water pump head | | m | 8.0 | | |
| DHW expansion tank | Volume | L | 16 | | | |
| ErP regulation | DHW profile | | | XL | | |
| | Energy efficiency class | | °C | A | | |
| Backup electric heater | Capacity | | kW | 2.0 | | |

1) Relevant Eu standards and legislation: EN14511: 2018; EN14825: 2018; EN50564: 2011; EN12102: 2017; [EU] N° 811/2013; [EU] N° 813/2013; OJ 2014/C 207/02; OJ 2017/C 229/01. 2) Outdoor air temperature 7°C DB, 85% R.H.; EWT 30°C, LWT 35°C. 3) Outdoor air temperature 7°C DB, 85% R.H.; EWT 47°C, LWT 55°C. 4) Outdoor air temperature 35°C DB; EWT 23°C, LWT 18°C. 5) Outdoor air temperature 35°C DB; EWT 12°C, LWT 7°C. 6) Seasonal space heating energy efficiency class tested in average climate conditions. 7) Sound power level tested in heating conditions with outdoor air temperature 7°C DB, 6°C WB; EWT 30°C, LWT 35°C;

DHW LINE

Domestic Hot Water

HEAT PUMP WATER HEATERS



- Wi-fi included
- Wide operating range
- Integration with solar collector
- DHW production above 65°C
- Hermetic refrigerant circuit
- Magnesium anode
- 1.5 kW electric heater
- Reduced overall dimensions
- Highly silent operation
- Easy installation and maintenance



80 L



100 L



200 L



200S L



300 L



300S L



500S L



A⁺



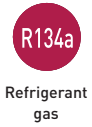
Refrigerant
gas



Wi-Fi
included

| | | | DHWHP80MI | DHWHP100MI |
|--|----------------------------|-------------------|------------------|------------------|
| Tapping profile ² | | | M | M |
| Storage tank capacity | | l | 80 | 100 |
| HEATING ¹ | Capacity | kW | 0,85 | 0,85 |
| | Average absorbed power | kW | 0,250 | 0,250 |
| | Total heating up time | h | 4,95 | 6,20 |
| | Heating energy consumption | kWh | 1,540 | 1,540 |
| | COP at Air 7°C (EN16147) | kWh/kWh | 2,62 | 2,62 |
| | Mixed water at 40°C | l | 142,00 | 142,00 |
| HEATING ² | Capacity | kW | 1,04 | 1,04 |
| | Average absorbed power | kW | 0,276 | 0,276 |
| | Total heating up time | h | 3,58 | 4,47 |
| | Heating energy consumption | kWh | 0,988 | 1,235 |
| | COP | W/W | 3,76 | 3,76 |
| | Mixed water at 40°C | l | 142,00 | 142,00 |
| Average yearly consumption ³ | | kWh/year | 388 | 430 |
| Rated current | | A | 1.81 (+6.5) | 1.81 (+6.5) |
| Max power consumption | | kW | 1800 | 1800 |
| Energy efficiency (heating) | | | 111,20% | 111,20% |
| Voltage | | V | 220-240/1/50 | 220-240/1/50 |
| Max outlet water temperature (without E-heater) | | °C | 60 | 60 |
| Sound power level | | dB(A) | 46 | 48,5 |
| Net size (øxH) | | mm | ø520x1160 | ø520x1368 |
| Package Size (LxPxH) | | mm | 572x572x1185 | 580x580x1412 |
| Net weight | | kg | 50 | 58 |
| Water tank capacity | | l | 80 | 110 |
| Rated water yield | | l/h | 19 | 19 |
| Tank material | | | GX2CrNiMoN22-5-3 | GX2CrNiMoN22-5-3 |
| Max. Water operating pressure | | Mpa | 1 | 1 |
| Rated water pressure | | Mpa | 0,6 | 0,6 |
| Compressor | | Type | Rotary | Rotary |
| Refrigerant | Type / Charged volume | kg | R134a / 0,65 | R134a / 0,65 |
| | GWP | | 1430 | 1430 |
| Set point relief valve | | Mpa | 0,7 | 0,7 |
| Fan type | | | Centrifugal | Centrifugal |
| Air flow | | m ³ /h | 300 | 300 |
| Operating temperature range (heat pump only) | | °C | da - 5 a 43 | da - 5 a 43 |
| LWT range | | °C | da 40 a 60 | da 40 a 60 |
| AUXILIARY HEAT EXCHANGER SURFACE (only S models) | | | - | - |

1. Capacity and absorbed power based on the following conditions: ambient temperature 7°C DB/6°C WB, water temperature 10°C to 55°C.
2. Capacity and power consumption based on the following conditions: ambient temperature 20°C DB, water temperature 15°C to 55°C.
3. Energy efficiency in heating based on ERP standards in average conditions



| | | | DHWHP200MI | DHWHP200SMI |
|---|----------------------------|-------------------|------------------|------------------|
| Tapping profile ² | | | L | L |
| Storage tank capacity | | l | 200 | 200 |
| HEATING ¹ | Capacity | kW | 1,65 (+1,5*) | 1,65 (+1,5*) |
| | Average absorbed power | kW | 0,455 | 0,455 |
| | Total heating up time | h | 6,50 | 6,50 |
| | Heating energy consumption | kWh | 2,958 | 2,958 |
| | COP at Air 7°C (EN16147) | kWh/kWh | 2,61 | 2,61 |
| | Mixed water at 40°C | l | 252,00 | 252,00 |
| HEATING ² | Capacity | kW | 2,06 (+1,5*) | 2,06 (+1,5*) |
| | Average absorbed power | kW | 0,477 | 0,477 |
| | Total heating up time | h | 4,52 | 4,52 |
| | Heating energy consumption | kWh | 2,154 | 2,154 |
| | COP | W/W | 4,32 | 4,32 |
| | Mixed water at 40°C | l | 252,00 | 252,00 |
| Average yearly consumption ³ | | kWh/year | 901 | 901 |
| Rated current | | A | 2.25 (+6.5) | 2.25 (+6.5) |
| Max power consumption | | kW | 2100 | 2100 |
| Energy efficiency (heating) | | | 106% | 106% |
| Voltage | | V | 220-240/1/50 | 220-240/1/50 |
| Max outlet water temperature (without E-heater) | | °C | 60 | 60 |
| Sound power level | | dB(A) | 58 | 58 |
| Net size (øxH) | | mm | ø560x1744 | ø560x1744 |
| Package Size (LxPxH) | | mm | 580x630x1875 | 580x630x1875 |
| Net weight | | kg | 90 | 90 |
| Water tank capacity | | l | 200 | 190 |
| Rated water yield | | l/h | 45 | 45 |
| Tank material | | | GX2CrNiMoN22-5-3 | GX2CrNiMoN22-5-3 |
| Max. Water operating pressure | | Mpa | 1 | 1 |
| Rated water pressure | | Mpa | 0,6 | 0,6 |
| Compressor | | Type | Rotary | Rotary |
| Refrigerant | Type / Charged volume | kg | R134a / 1,00 | R134a / 1,00 |
| | GWP | | 1430 | 1430 |
| Set point relief valve | | Mpa | 0,7 | 0,7 |
| Fan type | | | Centrifugal | Centrifugal |
| Air flow | | m ³ /h | 450 | 450 |
| Operating temperature range (heat pump only) | | °C | da - 5 a 43 | da - 5 a 43 |
| LWT range | | °C | da 40 a 60 | da 40 a 60 |
| AUXILIARY HEAT EXCHANGER SURFACE (only S models) | | | - | 0,7 |

1. Capacity and absorbed power based on the following conditions: ambient temperature 7°C DB/6°C WB, water temperature 10°C to 55°C.
2. Capacity and power consumption based on the following conditions: ambient temperature 20°C DB, water temperature 15°C to 55°C.
3. Energy efficiency in heating based on ERP standards in average conditions

* 1.5 kW auxiliary heater

Water heater 300 - 300S - 500S



Refrigerant
gas



Wi-Fi
included

| | | DHWHP300MI | DHWHP300SMI | DHWHP500SMI |
|---|----------------------------|-------------------|------------------|------------------|
| Tapping profile ² | | XL | XL | XXL |
| Storage tank capacity | | 300 | 300 | 500 |
| HEATING ¹ | Capacity | kW | 1,65 (+1,5*) | 1,65 (+1,5*) |
| | Average absorbed power | kW | 0,450 | 0,450 |
| | Total heating up time | h | 9,87 | 9,87 |
| | Heating energy consumption | kWh | 4,820 | 4,820 |
| | COP at Air 7°C [EN16147] | kWh/kWh | 2,65 | 2,65 |
| | Mixed water at 40°C | l | 392,00 | 392,00 |
| HEATING ² | Capacity | kW | 2,06 (+1,5*) | 2,06 (+1,5*) |
| | Average absorbed power | kW | 0,497 | 0,497 |
| | Total heating up time | h | 5,90 | 5,90 |
| | Heating energy consumption | kWh | 2,930 | 2,930 |
| | COP | W/W | 4,32 | 4,32 |
| | Mixed water at 40°C | l | 392,00 | 392,00 |
| Average yearly consumption ³ | | kWh/year | 1514 | 1514 |
| Rated current | | A | 2.20 (+6.5) | 2.20 (+6.5) |
| Max power consumption | | kW | 2100 | 2100 |
| Energy efficiency (heating) | | | 108,20% | 108,20% |
| Voltage | | V | 220-240/1/50 | 220-240/1/50 |
| Max outlet water temperature (without E-heater) | | °C | 60 | 60 |
| Sound power level | | dB(A) | 58 | 58 |
| Net size (øxH) | | mm | ø600x2040 | ø600x2040 |
| Package Size (LxPxH) | | mm | 650x650x2160 | 650x650x2160 |
| Net weight | | kg | 100 | 100 |
| Water tank capacity | | l | 300 | 290 |
| Rated water yield | | l/h | 45 | 45 |
| Tank material | | | GX2CrNiMoN22-5-3 | GX2CrNiMoN22-5-3 |
| Max. Water operating pressure | | Mpa | 1 | 1 |
| Rated water pressure | | Mpa | 0,6 | 0,6 |
| Compressor | | Type | Rotary | Rotary |
| Refrigerant | Type / Charged volume | kg | R134a / 1,00 | R134a / 1,00 |
| | GWP | | 1430 | 1430 |
| Set point relief valve | | Mpa | 0,7 | 0,7 |
| Fan type | | | Centrifugal | Centrifugal |
| Air flow | | m ³ /h | 450 | 450 |
| Operating temperature range (heat pump only) | | °C | da - 5 a 43 | da - 5 a 43 |
| LWT range | | °C | da 40 a 60 | da 40 a 60 |
| AUXILIARY HEAT EXCHANGER SURFACE (only S models) | | | 0,7 | 0,7 |

1. Capacity and absorbed power based on the following conditions: ambient temperature 7°C DB/6°C WB, water temperature 10°C to 55°C.

2. Capacity and power consumption based on the following conditions: ambient temperature 20°C DB, water temperature 15°C to 55°C.

3. Energy efficiency in heating based on ERP standards in average conditions

* 1.5 kW auxiliary heater

FAN COIL DESIGN LINE



ULTRA THIN
Depth 12 cm

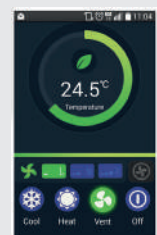


- Low power consumption (only 4 watt)
- 2 and 4 pipe installation
- 2 and 3-way by-pass valves
- Tangential aluminium fan for greater efficiency
- Stainless steel pleated filters with unlimited durability
- Wide air distribution angle
- High quietness
- Easy installation and maintenance



Beca App

Wi-Fi function for easy management from smartphones via **Beca** app



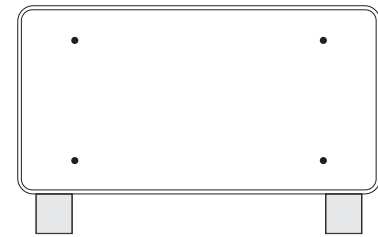


| | | | MWWX400Z |
|------------------------------|---------------------|-------------------|----------------|
| Power supply | | V/Ph/Hz | 220-240/1/50 |
| COOLING ¹ | Capacity (H/M/L) | kW | 1.20/0.81/0.70 |
| | Rated input (H/M/L) | W | 11/6/4 |
| HEATING ² | Capacity (H/M/L) | kW | 1.68/1.14/0.96 |
| | Rated input (H/M/L) | W | 11/6/4 |
| Air flow (H/M/L) | | m ³ /h | 315/230/155 |
| Motor fan type | | | DC Motor |
| Fan type | | | Tangential |
| Sound pressure level (H/M/L) | | dB(A) | 37.1/28.0/23.0 |
| Net dimensions (WxHxD) | | mm | 873x383x120 |
| Net weight | | kg | 16 |
| In/Out water pipe connection | | inch | G1/2 |

| | | | MWWX600Z |
|------------------------------|---------------------|-------------------|----------------|
| Power supply | | V/Ph/Hz | 220-240/1/50 |
| COOLING ¹ | Capacity (H/M/L) | kW | 1.70/1.20/0.90 |
| | Rated input (H/M/L) | W | 14/7/5 |
| HEATING ² | Capacity (H/M/L) | kW | 2.45/1.90/1.53 |
| | Rated input (H/M/L) | W | 14/7/5 |
| Air flow (H/M/L) | | m ³ /h | 450/350/240 |
| Motor fan type | | | DC Motor |
| Fan type | | | Tangential |
| Sound pressure level (H/M/L) | | dB(A) | 38.3/29.8/23.4 |
| Net dimensions (WxHxD) | | mm | 1065x383x120 |
| Net weight | | kg | 17 |
| In/Out water pipe connection | | inch | G1/2 |

| | | | MWWX800Z |
|------------------------------|---------------------|-------------------|----------------|
| Power supply | | V/Ph/Hz | 220-240/1/50 |
| COOLING ¹ | Capacity (H/M/L) | kW | 2.45/1.60/1.18 |
| | Rated input (H/M/L) | W | 17/10/8 |
| HEATING ² | Capacity (H/M/L) | kW | 3.30/2.20/1.70 |
| | Rated input (H/M/L) | W | 17/10/8 |
| Air flow (H/M/L) | | m ³ /h | 540/450/310 |
| Motor fan type | | | DC Motor |
| Fan type | | | Tangential |
| Sound pressure level (H/M/L) | | dB(A) | 39.1/32.2/25.0 |
| Net dimensions (WxHxD) | | mm | 1257x383x120 |
| Net weight | | kg | 20 |
| In/Out water pipe connection | | inch | G1/2 |

1. Room temperature 27°C DB, 19°C WB, water temperature from 7°C a 12°C;
2. Room temperature 20°C DB, water temperature from 40°C a 45°C;

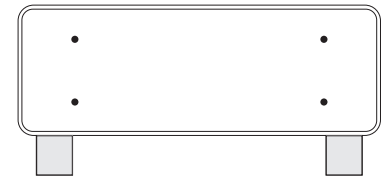


optional feet

| | | | MFWX200Z | MFWX400Z |
|------------------------------|---------------------|-------------------|----------------|----------------|
| Power supply | | V/Ph/Hz | 220-240/1/50 | 220-240/1/50 |
| COOLING ¹ | Capacity (H/M/L) | kW | 0.88/0.79/0.45 | 1.81/1.45/0.98 |
| | Rated input (H/M/L) | W | 12/5/3 | 13/6/4 |
| HEATING ² | Capacity (H/M/L) | kW | 1.10/0.90/0.61 | 2.40/1.50/1.16 |
| | Rated input (H/M/L) | W | 12/5/3 | 13/6/4 |
| Air flow (H/M/L) | | m ³ /h | 180/120/80 | 315/230/155 |
| Motor fan type | | | DC Motor | DC Motor |
| Fan type | | | Tangential | Tangential |
| Sound pressure level (H/M/L) | | dB(A) | 34.3/27.6/20.5 | 34.3/27.6/20.5 |
| Net dimensions (WxHxD) | | mm | 681x553x120 | 873x553x120 |
| Net weight | | kg | 18 | 21 |
| In/Out water pipe connection | | inch | G1/2 | G1/2 |

| | | | MFWX600Z | MFWX800Z |
|------------------------------|---------------------|-------------------|----------------|----------------|
| Power supply | | V/Ph/Hz | 220-240/1/50 | 220-240/1/50 |
| COOLING ¹ | Capacity (H/M/L) | kW | 2.70/2.20/1.70 | 3.38/2.75/2.13 |
| | Rated input (H/M/L) | W | 14/7/5 | 17/10/8 |
| HEATING ² | Capacity (H/M/L) | kW | 3.20/2.40/1.75 | 4.23/3.40/2.41 |
| | Rated input (H/M/L) | W | 14/7/5 | 17/10/8 |
| Air flow (H/M/L) | | m ³ /h | 450/350/240 | 540/450/310 |
| Motor fan type | | | DC Motor | DC Motor |
| Fan type | | | Tangential | Tangential |
| Sound pressure level (H/M/L) | | dB(A) | 35.2/28.5/21.6 | 35.4/29.6/23.5 |
| Net dimensions (WxHxD) | | mm | 1065x553x120 | 1257x553x120 |
| Net weight | | kg | 24 | 27 |
| In/Out water pipe connection | | inch | G1/2 | G1/2 |

1. Room temperature 27°C DB, 19°C WB, water temperature from 7°C a 12°C;
2. Room temperature 20°C DB, water temperature from 40°C a 45°C;



optional feet

| | | | MFWX200SZ | MFWX400SZ |
|------------------------------|---------------------|-------------------|----------------|----------------|
| Power supply | | V/Ph/Hz | 220-240/1/50 | 220-240/1/50 |
| COOLING ¹ | Capacity (H/M/L) | kW | 0.58/0.43/0.38 | 1.20/0.81/0.70 |
| | Rated input (H/M/L) | W | 12/5/3 | 11/6/4 |
| HEATING ² | Capacity (H/M/L) | kW | 0.84/0.73/0.55 | 1.68/1.14/0.96 |
| | Rated input (H/M/L) | W | 12/5/3 | 11/6/4 |
| Air flow (H/M/L) | | m ³ /h | 170/110/75 | 315/230/155 |
| Motor fan type | | | DC Motor | DC Motor |
| Fan type | | | Tangential | Tangential |
| Sound pressure level (H/M/L) | | dB(A) | 35.3/27.9/20.6 | 37.1/28.0/23.0 |
| Net dimensions (WxHxD) | | mm | 681x383x120 | 879x383x120 |
| Net weight | | kg | 13 | 16 |
| In/Out water pipe connection | | inch | G1/2 | G1/2 |

| | | | MFWX600SZ | MFWX800SZ |
|------------------------------|---------------------|-------------------|----------------|----------------|
| Power supply | | V/Ph/Hz | 220-240/1/50 | 220-240/1/50 |
| COOLING ¹ | Capacity (H/M/L) | kW | 1.70/1.20/0.90 | 2.45/1.60/1.18 |
| | Rated input (H/M/L) | W | 14/7/5 | 17/10/8 |
| HEATING ² | Capacity (H/M/L) | kW | 2.45/1.90/1.53 | 3.30/2.20/1.70 |
| | Rated input (H/M/L) | W | 14/7/5 | 17/10/8 |
| Air flow (H/M/L) | | m ³ /h | 450/350/240 | 540/450/310 |
| Motor fan type | | | DC Motor | DC Motor |
| Fan type | | | Tangential | Tangential |
| Sound pressure level (H/M/L) | | dB(A) | 38.3/29.8/23.4 | 39.1/32.2/25.0 |
| Net dimensions (WxHxD) | | mm | 1065x383x120 | 1257x383x120 |
| Net weight | | kg | 17 | 20 |
| In/Out water pipe connection | | inch | G1/2 | G1/2 |

1. Room temperature 27°C DB, 19°C WB, water temperature from 7°C a 12°C;
2. Room temperature 20°C DB, water temperature from 40°C a 45°C;



MITSUMI[®]





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