

# FT VGHZ <sup>R32</sup> Single / Multi SERIES

Unlike conventional air conditioning systems, the FT Series don't lose heating capacity when it's cold outside. Original technologies ensure excellent heating performance under extremely low outdoor temperatures and an impressive guaranteed operating range. Furthermore, the smaller and stylish indoor unit does not give you the limitation of installation location.



MSZ-FT25/35/50VG(K)

## Compact Design

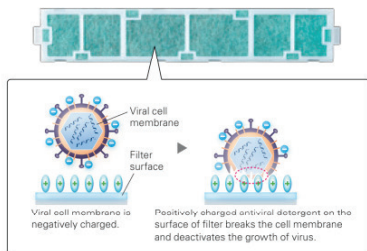
The FT series features its compact design with 280mm height and 229mm depth, which is suitable for the installation above the door.



## V Blocking Filter (Optional)

V Blocking Filter with antiviral effect inhibits 99% of adhered virus, and other harmful substances, such as bacteria, mold and allergen.

Two-layered filter with non-woven fabric and electrostatic filter can effectively capture and remove small particles from the air in your room.



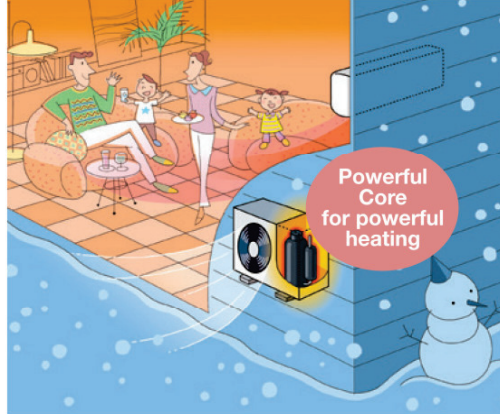
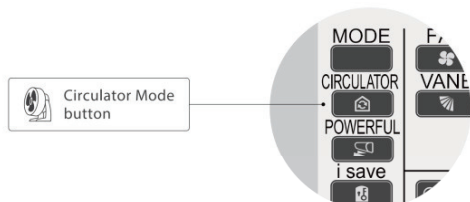
## Remote Controller with Backlight

The remote controller screen is equipped with an LCD backlight. The luminous screen allows you to check the setting easily even in the dark.



## Circulator Mode

After reaching the target temperature, heating mode will automatically switch to Circulator mode, which makes the unit go into "fan-only" state and mixes warm air in the room.



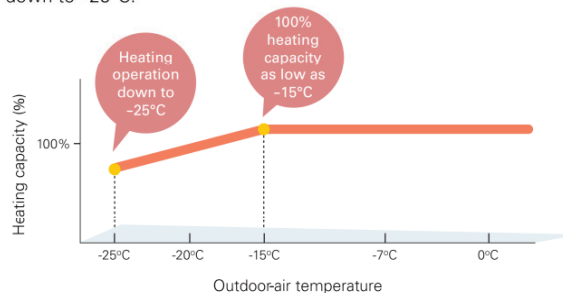
## Built-in Wi-Fi

(MSZ-FT25/35/50VGK)

Mitsubishi Electric Wi-Fi Control gives you the freedom to tailor your heating and cooling needs through computers, tablets, or smart-phones from anywhere.

## Hyper Heating

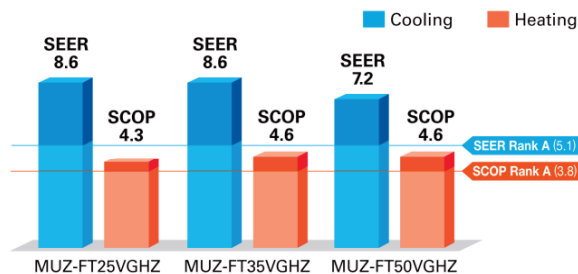
Mitsubishi Electric's powerful compressor and highly cold-resistant parts enable the heat pump to provide 100% or more heating capacity even at  $-15^{\circ}\text{C}$ , and also the heating operation is guaranteed down to  $-25^{\circ}\text{C}$ .



## High Energy Efficiency – Energy Rank of A<sup>+</sup> or higher for All Models

DC Inverter

With indoor units that combine functionality, design and capacity and outdoor units equipped with a high-efficiency compressor, the MUZ-FT VGHZ simultaneously achieves high heating capacity and energy-saving performance.



(MSZ-FT25/35/50VG(K)-SC Scandinavian Model)

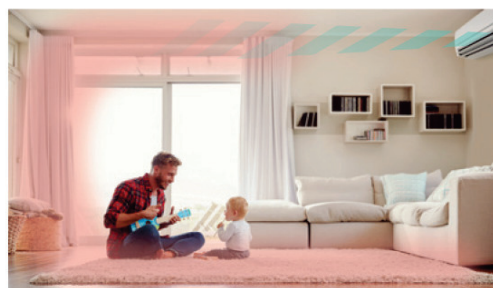


Image is for illustration purposes.

# MSZ-FT VGHZ SERIES



## Indoor Unit



MSZ-FT25/35/50VG(K)

## Outdoor Unit



MUZ-FT25VGHZ



MUZ-FT35/50VGHZ

## Remote Controller



| Type                                                  |                                                |                                 |                          | Inverter Heat Pump            |                                |                                |             |
|-------------------------------------------------------|------------------------------------------------|---------------------------------|--------------------------|-------------------------------|--------------------------------|--------------------------------|-------------|
| Indoor Unit                                           |                                                |                                 |                          | MSZ-FT25VG(K)                 | MSZ-FT35VG(K)                  | MSZ-FT50VG(K)                  |             |
| Outdoor Unit                                          |                                                |                                 |                          | MUZ-FT25VGHZ                  | MUZ-FT35VGHZ                   | MUZ-FT50VGHZ                   |             |
| Refrigerant                                           |                                                |                                 |                          | R32 <sup>(※1)</sup>           |                                |                                |             |
| Power Supply                                          | Source                                         |                                 |                          | Outdoor power supply          |                                |                                |             |
|                                                       | Outdoor (V/Phase/Hz)                           |                                 |                          | 230 / Single / 50             |                                |                                |             |
| Cooling                                               | Design Load                                    |                                 | kW                       | 2.5                           | 3.5                            | 5.0                            |             |
|                                                       | Annual Electricity Consumption <sup>(※2)</sup> |                                 | kWh/a                    | 101                           | 142                            | 243                            |             |
|                                                       | SEER <sup>(※4)</sup>                           | Energy Efficiency Class         |                          | 8.6                           | 8.6                            | 7.2                            |             |
|                                                       |                                                |                                 |                          | A+++                          | A+++                           | A++                            |             |
|                                                       | Capacity                                       | Rated                           | kW                       | 2.5                           | 3.5                            | 5.0                            |             |
|                                                       |                                                | Min - Max                       | kW                       | 0.8 - 3.5                     | 0.8 - 4.0                      | 0.8 - 5.2                      |             |
|                                                       | Total Input                                    | Rated                           | kW                       | 0.580                         | 0.910                          | 1.630                          |             |
| Heating (Average Season) <sup>(※5)</sup>              | Design Load                                    |                                 | kW                       | 3.2 (−10°C)                   | 4.0 (−10°C)                    | 5.0 (−10°C)                    |             |
|                                                       | Declared Capacity                              | at reference design temperature | kW                       | 3.2 (−10°C)                   | 4.0 (−10°C)                    | 5.0 (−10°C)                    |             |
|                                                       |                                                | at bivalent temperature         | kW                       | 3.2 (−10°C)                   | 4.0 (−10°C)                    | 5.0 (−10°C)                    |             |
|                                                       |                                                | at operation limit temperature  | kW                       | 3.0 (−25°C)                   | 3.4 (−25°C)                    | 3.6 (−25°C)                    |             |
|                                                       |                                                |                                 | Back Up Heating Capacity | kW                            | 0.0 (−10°C)                    | 0.0 (−10°C)                    | 0.0 (−10°C) |
|                                                       | Annual Electricity Consumption <sup>(※2)</sup> |                                 | kWh/a                    | 973                           | 1216                           | 1625                           |             |
|                                                       | SCOP <sup>(※4)</sup>                           | Energy Efficiency Class         |                          | 4.6                           | 4.6                            | 4.3                            |             |
|                                                       |                                                |                                 |                          | A++                           | A++                            | A+                             |             |
|                                                       | Capacity                                       | Rated                           | kW                       | 3.2                           | 4.0                            | 5.0                            |             |
|                                                       |                                                | Min - Max                       | kW                       | 0.9 - 6.2                     | 0.9 - 6.6                      | 0.9 - 7.8                      |             |
|                                                       | Total Input                                    | Rated                           | kW                       | 0.760                         | 1.020                          | 1.300                          |             |
|                                                       | Operating Current (max)                        |                                 |                          | A                             | 10.0                           | 11.6                           | 13.9        |
|                                                       | Indoor Unit                                    | Input                           | Rated                    | kW                            | 0.039                          | 0.04                           | 0.047       |
| Operating Current (max)                               |                                                | A                               | 0.4                      |                               |                                |                                |             |
| Dimensions                                            |                                                | H × W × D                       | mm 280 - 838 - 229       |                               |                                |                                |             |
| Weight                                                |                                                | kg                              | 10                       |                               |                                |                                |             |
| Air Volume (SLo-Lo-Mid-Hi-SHi) <sup>(※3)</sup>        |                                                | Cooling                         | m³/min                   | 3.9 - 5.9 - 8.2 - 10.4 - 12.3 | 3.9 - 6.1 - 8.3 - 10.7 - 13.1  | 5.5 - 7.6 - 9.8 - 12.0 - 13.1  |             |
|                                                       |                                                | Heating                         | m³/min                   | 3.9 - 6.3 - 9.0 - 12.1 - 13.2 | 3.9 - 6.9 - 10.2 - 13.5 - 14.7 | 5.5 - 8.4 - 11.4 - 14.4 - 15.5 |             |
| Sound Level (SPL) (SLo-Lo-Mid-Hi-SHi) <sup>(※3)</sup> |                                                | Cooling                         | dB(A)                    | 19 - 27 - 36 - 41 - 46        | 19 - 27 - 36 - 42 - 47         | 28 - 34 - 40 - 45 - 48         |             |
|                                                       |                                                | Heating                         | dB(A)                    | 19 - 31 - 39 - 46 - 49        | 19 - 33 - 42 - 49 - 52         | 28 - 36 - 45 - 51 - 54         |             |
| Sound Level (PWL)                                     |                                                | dB(A)                           | 60                       |                               |                                |                                |             |
| Dimensions                                            |                                                | H × W × D                       | mm 550 - 800 - 285       |                               |                                |                                |             |
| Outdoor Unit                                          | Weight                                         |                                 | kg                       | 34 40 40                      |                                |                                |             |
|                                                       | Air Volume                                     | Cooling                         | m³/min                   | 30.4                          | 40.2                           | 40.2                           |             |
|                                                       |                                                | Heating                         | m³/min                   | 30.4                          | 40.2                           | 40.2                           |             |
|                                                       | Sound Level (SPL)                              | Cooling                         | dB(A)                    | 46                            | 49                             | 51                             |             |
|                                                       |                                                | Heating                         | dB(A)                    | 49                            | 52                             | 54                             |             |
|                                                       | Sound Level (PWL)                              | Cooling                         | dB(A)                    | 60                            | 61                             | 64                             |             |
|                                                       |                                                | Operating Current (max)         | A                        | 9.6                           | 11.2                           | 13.5                           |             |
|                                                       | Breaker Size                                   |                                 | A                        | 12                            | 12                             | 16                             |             |
|                                                       | Ext. Piping                                    | Diameter                        | Liquid / Gas             | mm                            | 6.35 / 9.52                    | 6.35 / 9.52                    | 6.35 / 9.52 |
| Max. Length                                           |                                                | Out-In                          | m                        | 20                            | 30                             |                                |             |
| Max. Height                                           |                                                | Out-In                          | m                        | 12                            | 15                             |                                |             |
| Guaranteed Operating Range [Outdoor]                  |                                                |                                 | Cooling                  | °C                            | −10 ~ +46                      | −10 ~ +46                      |             |
|                                                       |                                                |                                 | Heating                  | °C                            | −25 ~ +24                      | −25 ~ +24                      | −25 ~ +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 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub> 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 R410A is 2088 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) SHi: 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 53-55 for heating (warmer season) specifications.