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KIRIGAMINE ZEN

# MSZ-E SERIES

Developed to complement modern interior room décor, Kirigamine ZEN air conditioners are available in three colours specially chosen to blend in naturally wherever installed.

R32  
Single / Multi  
R410A  
Multi

MSZ-EF18-50VGB

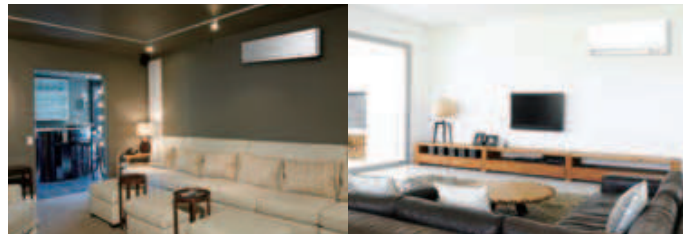


GOOD DESIGN  
reddot award 2015 winner



## Stylish Line-up Matches Any Room Décor

The streamlined wall-mounted indoor units have eloquent silver-bevelled edges, expressing sophistication and quality. Combining impressively low power consumption and quiet yet powerful performance, these units provide a best-match scenario for diverse interior designs while simultaneously ensuring maximum room and energy savings.



## Energy-efficient Operation

DC Inverter  
25-35 SEER A+++  
25-42° SCOP A++  
\*except for VEH

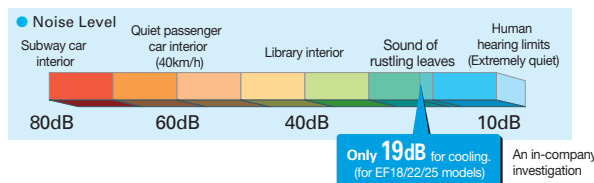
All models in the series have achieved high energy-savings rating, and are contributing to reduced energy consumption in homes, offices and a range of other settings. Offered in a variety of output capacities and installation patterns, the vast applicability promises an ideal match for any user.

| Indoor \ Outdoor | Rank A for single connection<br>MUZ-EF25/35V(G)(H)<br>MUZ-EF42/50VG | Compatibility<br>MXZ |        |        |        |        |        |
|------------------|---|----------------------|--------|--------|--------|--------|--------|
|                  |   | 2F33VF               | 2F42VF | 2F53VF | 3F54VF | 3F68VF | 4F72VF |
| MSZ-EF18VG       | -   | ✓                    | ✓      | ✓      | ✓      | ✓      | ✓      |
| MSZ-EF22VG       | -   | ✓                    | ✓      | ✓      | ✓      | ✓      | ✓      |
| MSZ-EF25VG       | A+++ / A++(A+*)   | ✓                    | ✓      | ✓      | ✓      | ✓      | ✓      |
| MSZ-EF35VG       | A+++ / A++(A+*)   |                      | ✓      | ✓      | ✓      | ✓      | ✓      |
| MSZ-EF42VG       | A+ / A+   |                      |        | ✓      | ✓      | ✓      | ✓      |
| MSZ-EF50VG       | A+ / A  |                      |        | ✓      | ✓      | ✓      | ✓      |

\*VEH

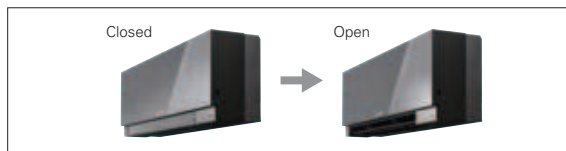
## Quiet Comfort All Day Long

Mitsubishi Electric's advanced "Silent Mode" fan speed setting provides super-quiet operation as low as 19dB for EF18/22/25 models for cooling. This unique feature makes the Kirigamine ZEN series ideal for use in any situation.



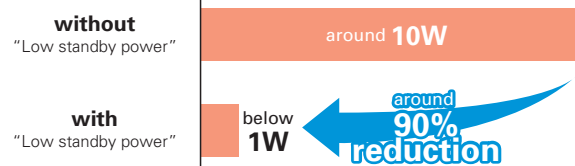
## Superior Exterior and Operating Design Concept

The indoor unit of the Kirigamine ZEN keeps its amazingly thin form even during operation. The only physical change notable is the movement of the variable vent. As a result, a slim attractive look is maintained.



## 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.



## Outdoor Units for Cold Region (25/35)

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-E SERIES



## Indoor Unit / Remote Controller

R32 R410A



White

MSZ-EF18/22/25/35/42/50VG(K)W



Silver

MSZ-EF18/22/25/35/42/50VG(K)S



Black

MSZ-EF18/22/25/35/42/50VG(K)B\*

\* Soft-dry Cloth is enclosed with Black models.  
\* VGK model Wi-Fi interface built-in

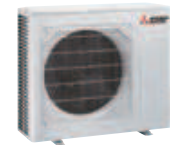


## Outdoor Unit

R32



MUZ-EF25/35VG(H),42VG



MUZ-EF50VG



| Type                                    |   | Inverter Heat Pump                    |                     |                      |                      |                      |                      |                      |                      |                      |                       |
|---|---|---------------------------------------|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|
| Indoor Unit                             |   | MSZ-EF18VG(K)                         | MSZ-EF22VG(K)       | MSZ-EF25VG(K)        | MSZ-EF25VG(K)        | MSZ-EF35VG(K)        | MSZ-EF35VG(K)        | MSZ-EF42VG(K)        | MSZ-EF50VG(K)        |                      |                       |
| Outdoor Unit                            |   | for MXZ connection                    |                     |                      | MUZ-EF25VG           | MUZ-EF25VGH          | MUZ-EF35VGH          | MUZ-EF42VG           | MUZ-EF50VG           |                      |                       |
| Refrigerant                             |   | R32 <sup>(1)</sup>                    |                     |                      |                      |                      |                      |                      |                      |                      |                       |
| Power Supply                            |   | Outdoor Power supply<br>230/Single/50 |                     |                      |                      |                      |                      |                      |                      |                      |                       |
| Outdoor ( V / Phase / Hz )              |   |                                       |                     |                      |                      |                      |                      |                      |                      |                      |                       |
| Cooling                                 | Design load   | kW                                    | -                   | -                    | 2.5                  | 2.5                  | 3.5                  | 3.5                  | 4.2                  | 5.0                  |                       |
|   | Annual electricity consumption <sup>(2)</sup>           | kWh/a                                 | -                   | -                    | 96                   | 96                   | 139                  | 139                  | 186                  | 233                  |                       |
|   | SEER <sup>(3)</sup>                                     |                                       | -                   | -                    | 9.1                  | 9.1                  | 8.8                  | 8.8                  | 7.9                  | 7.5                  |                       |
|   | Capacity  | Energy efficiency class               |                     | -                    | -                    | A+++                 | A+++                 | A+++                 | A+++                 | A++                  | A++                   |
|   |   | Rated                                 | kW                  | -                    | -                    | 2.5                  | 2.5                  | 3.5                  | 3.5                  | 4.2                  | 5.0                   |
| Total Input                             | Min-Max   | kW                                    | -                   | -                    | 0.9-3.4              | 0.9-3.4              | 1.1-4.0              | 1.1-4.0              | 0.9-4.6              | 1.4-5.4              |                       |
|   | Rated   | kW                                    | -                   | -                    | 0.540                | 0.540                | 0.910                | 0.910                | 1.200                | 1.540                |                       |
| Heating (Average Season) <sup>(4)</sup> | Design load   | kW                                    | -                   | -                    | 2.4 (-10°C)          | 2.4 (-10°C)          | 2.9 (-10°C)          | 2.9 (-10°C)          | 3.8 (-10°C)          | 4.2 (-10°C)          |                       |
|   | Declared Capacity                                       | at reference design temperature       |                     | -                    | -                    | 2.4 (-10°C)          | 2.4 (-10°C)          | 2.9 (-10°C)          | 2.9 (-10°C)          | 3.8 (-10°C)          | 4.2 (-10°C)           |
|   |   | at bivalent temperature               |                     | -                    | -                    | 2.4 (-10°C)          | 2.4 (-10°C)          | 2.9 (-10°C)          | 2.9 (-10°C)          | 3.8 (-10°C)          | 4.2 (-10°C)           |
|   | at operation limit temperature                          |                                       | -                   | -                    | 2.0 (-10°C)          | 1.6 (-20°C)          | 2.4 (-15°C)          | 1.7 (-20°C)          | 3.4 (-15°C)          | 3.5 (-15°C)          |                       |
|   | Back up heating capacity                                |                                       | -                   | -                    | 0.0 (-10°C)          | 0.0 (-10°C)          | 0.0 (-10°C)          | 0.0 (-10°C)          | 0.0 (-10°C)          | 0.0 (-10°C)          |                       |
|   | Annual electricity consumption <sup>(2)</sup>           | kWh/a                                 | -                   | -                    | 713                  | 727                  | 882                  | 900                  | 1151                 | 1304                 |                       |
|   | SCOP <sup>(5)</sup>                                     |                                       | -                   | -                    | 4.7                  | 4.6                  | 4.6                  | 4.5                  | 4.6                  | 4.5                  |                       |
|   | Capacity  | Energy efficiency class               |                     | -                    | -                    | A++                  | A++                  | A++                  | A+                   | A++                  | A+                    |
|   |   | Rated                                 | kW                  | -                    | -                    | 3.2                  | 3.2                  | 4.0                  | 4.0                  | 5.4                  | 5.8                   |
|   | Total Input   | Min-Max                               | kW                  | -                    | -                    | 1.0-4.2              | 1.0-4.2              | 1.3-5.1              | 1.3-5.1              | 1.3-6.3              | 1.4-7.5               |
| Rated                                   |   | kW                                    | -                   | -                    | 0.700                | 0.700                | 0.950                | 0.950                | 1.455                | 1.560                |                       |
| Operating Current (Max)                 |   | A                                     | -                   | -                    | 7.1                  | 7.1                  | 7.1                  | 7.1                  | 10.0                 | 14                   |                       |
| Indoor Unit                             | Input   | Rated                                 | kW                  | 0.026                | 0.026                | 0.026                | 0.026                | 0.030                | 0.030                | 0.033                | 0.043                 |
|   |   | Operating Current (Max)               | A                   | 0.3                  | 0.3                  | 0.3                  | 0.3                  | 0.3                  | 0.4                  | 0.4                  |                       |
|   | Dimensions  | H*W*D                                 | mm                  | 299-885-195          | 299-885-195          | 299-885-195          | 299-885-195          | 299-885-195          | 299-885-195          | 299-885-195          |                       |
|   | Weight  | kg                                    | -                   | -                    | 11.5                 | 11.5                 | 11.5                 | 11.5                 | 11.5                 | 11.5                 |                       |
|   | Air Volume (SLo-Lo-Mid-Hi-SH <sup>(3)</sup> ) (Dry/Wet) | Cooling                               | m <sup>3</sup> /min | 4.0-4.6-6.3-8.3-10.5 | 4.0-4.6-6.3-8.3-10.5 | 4.0-4.6-6.3-8.3-10.5 | 4.0-4.6-6.3-8.3-10.5 | 4.0-4.6-6.3-8.3-10.5 | 4.0-4.6-6.3-8.3-10.5 | 5.8-6.6-7.7-8.9-11.2 | 5.8-6.8-7.9-9.2-11.3  |
|   |   | Heating                               | m <sup>3</sup> /min | 4.0-4.6-6.2-8.9-11.9 | 4.0-4.6-6.2-8.9-11.9 | 4.0-4.6-6.2-8.9-11.9 | 4.0-4.6-6.2-8.9-11.9 | 4.0-4.6-6.2-8.9-12.7 | 4.0-4.6-6.2-8.9-12.7 | 5.5-6.3-7.8-9.9-13.2 | 6.4-7.2-9.0-11.1-14.6 |
|   | Sound Level (SPL) (SLo-Lo-Mid-Hi-SH <sup>(3)</sup> )    | Cooling                               | dB(A)               | 19-23-29-36-42       | 19-23-29-36-42       | 19-23-29-36-42       | 19-23-29-36-42       | 21-24-30-36-42       | 21-24-30-36-42       | 28-31-35-39-43       | 30-33-36-40-43        |
|   |   | Heating                               | dB(A)               | 21-24-29-37-45       | 21-24-29-37-45       | 21-24-29-37-45       | 21-24-29-37-45       | 21-24-30-38-46       | 21-24-30-38-46       | 28-30-35-41-48       | 30-33-37-43-49        |
|   | Sound Level (PWL)                                       | Cooling                               | dB(A)               | 60                   | 60                   | 60                   | 60                   | 60                   | 60                   | 60                   | 60                    |
|   | Dimensions  | H*W*D                                 | mm                  | -                    | -                    | 550-800-285          | 550-800-285          | 550-800-285          | 550-800-285          | 550-800-285          | 714-800-285           |
| Weight                                  | kg  | -                                     | -                   | -                    | 31                   | 31                   | 34                   | 35                   | 40.2                 | 40.2                 |                       |
| Outdoor Unit                            | Air Volume  | Cooling                               | m <sup>3</sup> /min | -                    | -                    | 27.8                 | 27.8                 | 34.3                 | 34.3                 | 32.0                 | 40.2                  |
|   |   | Heating                               | m <sup>3</sup> /min | -                    | -                    | 29.8                 | 29.8                 | 32.7                 | 32.7                 | 32.7                 | 40.2                  |
|   | Sound Level (SPL)                                       | Cooling                               | dB(A)               | -                    | -                    | 47                   | 47                   | 49                   | 49                   | 50                   | 52                    |
|   |   | Heating                               | dB(A)               | -                    | -                    | 48                   | 48                   | 50                   | 50                   | 51                   | 52                    |
|   | Sound Level (PWL)                                       | Cooling                               | dB(A)               | -                    | -                    | 58                   | 58                   | 62                   | 62                   | 62                   | 65                    |
| Operating Current (Max)                 | A   | -                                     | -                   | -                    | 6.8                  | 6.8                  | 6.8                  | 6.8                  | 9.6                  | 13.6                 |                       |
| Breaker Size                            | A   | -                                     | -                   | -                    | 10                   | 10                   | 10                   | 10                   | 12                   | 16                   |                       |
| Ext. Piping                             | Diameter  | Liquid/Gas                            | mm                  | -                    | -                    | 6.35 / 9.52          | 6.35 / 9.52          | 6.35 / 9.52          | 6.35 / 9.52          | 6.35 / 9.52          | 6.35 / 9.52           |
|   | Max.Length  | Out-In                                | m                   | -                    | -                    | 20                   | 20                   | 20                   | 20                   | 20                   | 30                    |
|   | Max.Height  | Out-In                                | m                   | -                    | -                    | 12                   | 12                   | 12                   | 12                   | 12                   | 15                    |
| Guaranteed Operating Range (Outdoor)    | Cooling   | °C                                    | -                   | -                    | -10 ~ +46            | -10 ~ +46            | -10 ~ +46            | -10 ~ +46            | -10 ~ +46            | -10 ~ +46            |                       |
|   | Heating   | °C                                    | -                   | -                    | -15 ~ +24            | -20 ~ +24            | -15 ~ +24            | -20 ~ +24            | -15 ~ +24            | -15 ~ +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 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.

(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 51-52 for heating (warmer season) specifications.