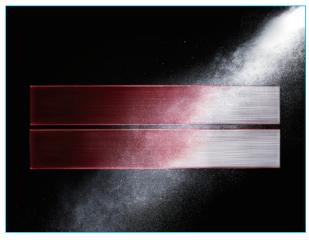


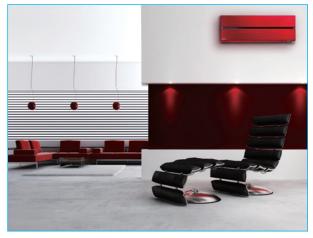
## Luminous and Luxurious Design

series.

Natural White, Pearl White, Ruby Red, and Onyx Black. LN Series indoor units are available in four colours to match various lifestyles. The appearance of the indoor unit differs depending on the lighting in the room, attracting the attention of everyone that enters the room.



Master craftsmanship painting technology has resulted in a refined design, giving the finish deep colour and a premium guality feel.



Ruby Red gives an accent to the room, affording timeless elegance to sophisticated interiors.

## LED Backlight Remote Controller

Not only the indoor units, but also the wireless remote controllers come in four colours as well. Each remote controller matches the indoor unit. Even the textures are the same.

> The setting can be easily checked in the dark thanks to LED backlight.





Pearl White blends in with any interior.



Onyx Black matches darker interiors, creating a comfortable environment.







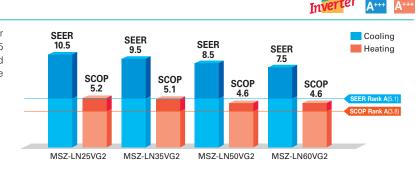
Pearl White

Red

Onyx Black

White

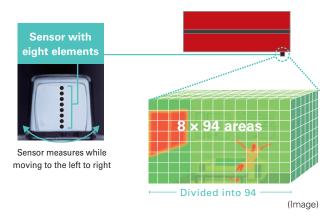
## High Energy Efficiency



#### Optimum cooling/heating performance is another feature for the LN series. Models from capacities 25 to 50 have achieved the "Rank A+++" for SEER, and models for capacities 25 and 35 have achieved the "Rank A+++" for SCOP as well.

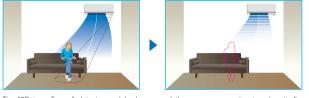
## 3D i-see Sensor

The LN Series is equipped with 3D i-see Sensor, an infrared-ray sensor that measures the temperature at distant positions. While moving to the left and right, eight vertically arranged sensor elements analyze the room temperature in three dimensions. This detailed analysis makes it possible to judge where people are in the room, thus allowing creation of features such as "Indirect airflow," to avoid airflow hitting people directly, and "direct airflow" to deliver airflow to where people are.



#### No occupancy energy-saving mode

The sensors detect whether there are people in the room. When no-one is in the room, the unit automatically switches to energy-saving mode.



The "3D i-see Sensor" detects people's absence and the power consumption is automatically reduced approximately 10% after 10 minutes and 20% after 60 minutes

#### **Circulator Operation**

In case the indoor temperature reaches the setting temperature, the outdoor unit stops and the indoor unit starts FAN operation to circulate the indoor air.

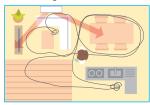
The outdoor unit starts operation automatically when the indoor temperature drops below the setting temperature.

#### **Indirect Airflow**

The indirect airflow setting can be used when the flow of air feels too strong or direct. For example, it can be used during cooling to avert airflow and prevent body temperature from becoming excessively cooled.



#### Even Airflow \*LN Series only Normal swing mode



The airflow is distributed equally throughout the room, even to spaces where there is no human movement.

#### No occupany Auto-OFF mode \*LN Series only

The sensors detect whether or not there are people in the room. When there is no one in the room, the unit turns off automatically.





(MSZ-LN18/25/35/50/60VG-SC Scandinavian model)



If the heating operation is continued, the warm air is formed around ceiling



This operation can help to circulate and rense warm air

Even airflow mode

**Direct Airflow** 

(cold) day.

This setting can be used to directly target

airflow at people such as for immediate

comfort when coming indoors on a hot

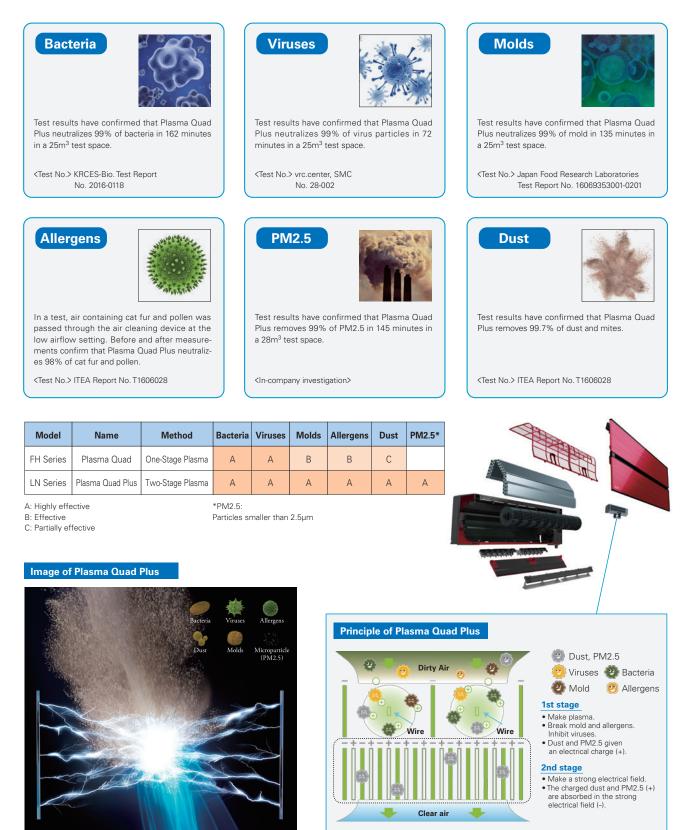


ment and furniture positions, and efficiently distributes airflow.

The 3D i-see sensor memorizes human move-

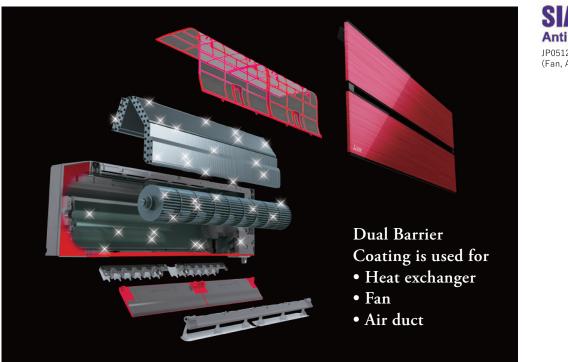
## Plasma Quad Plus

Plasma Quad Plus is a plasma-based filter system that effectively removes six kinds of air pollutants. Plasma Quad Plus captures mold and allergens more effectively than Plasma Quad. It can also capture PM2.5 and particles smaller than 2.5µm, creating healthy living spaces for all.





A two-barrier coating prevents dust and greasy dirt from getting into the air conditioner.





#### State-of-the-art coating technology

Dirt is generally classified into two groups: hydrophilic dirt such as fiber dust and sand dust, and hydrophobic dirt such as oil and cigarette smoke. Mitsubishi Electric's dual barrier coating works as a two-barrier coating that prevent hydrophilic dirt penetration and "hydrophilic particles" that prevent hydrophobic dirt from getting into the air conditioner. This dual coating on the inner surface keeps the air conditioner clean year-round.





\*1 Verified by SIAA test method (JIS Z 2911) with No. JP0501014A0002O on SIAA antifungal agent positive list. Antifungal effect depends on the working environment. Fungicides comply with the SIAA safety criteria.

## **Double Flap**

The vanes create various airflows to make each person in the room comfortable. Not only the horizontal vanes, but also the vertical vanes move independently, eliminating hot spots or cold spots throughout the room.



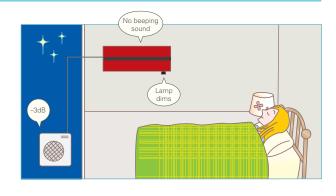


## Night Mode

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.

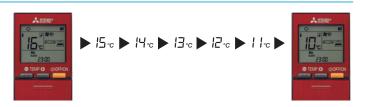
\*The cooling/heating capacity may drop.



#### 10°C Heating

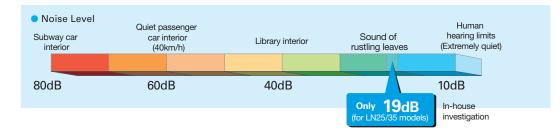
During heating operation, the temperature can be set in  $1^{\circ}\text{C}$  increments down to  $10^{\circ}\text{C}.$ 

This function can also be used with the Weekly Timer setting.



#### **Quiet Operation**

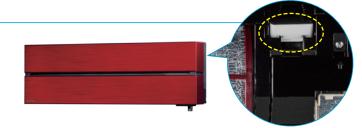
The indoor unit noise level is as low as 19dB for LN25/35 models, offering a peaceful inside environment.



#### **Built-in Wi-Fi Interface**

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.



# LNVGHZ RAIOA Single / MXZ, PUMY PUMY SERIES

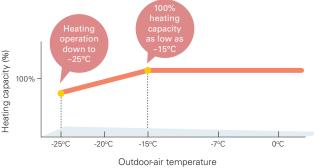
Unlike conventional air conditioning systems, the LN Series don't lose heating capacity when it's cold outside. Original technologies ensure excellent heating performance under extremely low outdoor temperatures and an impressive guaranteed operating range.



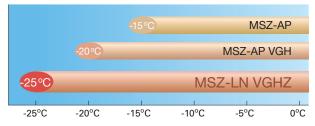
MSZ-LN25/35/50VG2(W)(V)(R)(B)

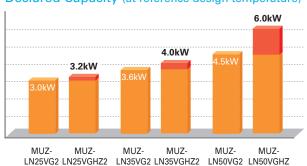
## Unparalleled Heating Performance

LN Series outdoor units are equipped with a high-output compressor that provides enhanced heating performance under low outdoor temperatures. The heating operation range is extended down to -25°C.



#### **Operating Range**



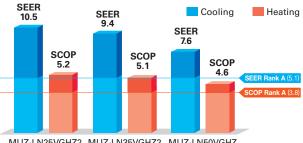


#### **Declared Capacity** (at reference design temperature)



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

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



#### MUZ-LN25VGHZ2 MUZ-LN35VGHZ2 MUZ-LN50VGHZ

## **Freeze-prevention Heater Equipped** as Standard

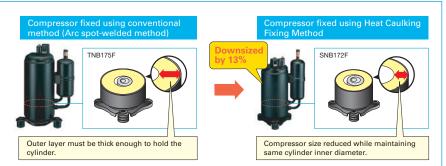
The Freeze-prevention heater restricts lowered capacity and operation shutdowns caused by the drain water freezing. This supports stable operation in low-temperature environments.



\*Image is for illustration purposes. The actual performance depends on outdoor temperature

#### **Compact, Powerful Compressor**

A special manufacturing technology, "Heat Caulking Fixing Method," has been introduced to reduce compressor size while maintaining a high compressor output. This technology enables the installation of a powerful compressor in compact MUZ outdoor units. As a result, excellent heating performance is achieved when operating in cold outdoor environments.



| MSZ-LN series                       | Inverter  | Source Parks         |
|-------------------------------------|---|----------------------|
| Indoor Unit / Remote Controller     | R32 R410A 6000 design award 20<br>BEST 10   |                      |
| <pearl white=""></pearl>            | <ruby red=""></ruby>  | MUZ-LN25/35VG2       |
| MSZ-LN18/25/35/50/60VG2V            | MSZ-LN18/25/35/50/60VG2R  |                      |
| <natural white=""></natural>        | <onyx black=""></onyx>  | MUZ-LN50VG2          |
| MSZ-LN18/25/35/50/60VG2W            | MSZ-LN18/25/35/50/60VG2B  | MUZ-LN60VG2          |
| 30 Free AREA SHIMMA Econo Cool VANE | Pressure<br>Quant<br>Plans         V Blocking<br>Filter<br>Opcod         Dual Barrier<br>Coaling         Decodorising         Double<br>Vane         SWNG           Opcod         Opcod |                      |
| Acco 440 Restart Cooling Control    | Menet<br>Connection<br>Optimal Wi-Fi (b)<br>Deformal (1) /25 / 35 / 50 (b)<br>(b) / 10 / 10 / 10 / 10 / 10 / 10 / 10 / 1  | Back Light<br>Remote |

| Туре            |                                      |                                 |                    |                               |                               | Inverter Heat Pump                             |                               |                               |  |  |
|-----------------|--------------------------------------|---------------------------------|--------------------|-------------------------------|-------------------------------|--|-------------------------------|-------------------------------|--|--|
| Indoor Unit     |                                      |                                 | MSZ-LN18VG2        | MSZ-LN25VG2                   | MSZ-LN35VG2                   | MSZ-LN50VG2                                    | MSZ-LN60VG2                   |                               |  |  |
| Outdoor Unit    |                                      |                                 | for MXZ connection | MUZ-LN25VG2                   | MUZ-LN35VG2                   | MUZ-LN50VG2                                    | MUZ-LN60VG2                   |                               |  |  |
| Refrigera       | nt                                   |                                 |                    |                               | Sii                           | ngle: R32 <sup>(1)</sup> / Multi: R410A or R3: | 2(*1)                         |                               |  |  |
| Power           | Source                               |                                 |                    | Outdoor Power Supply          |                               |  |                               |                               |  |  |
| Supply          | Outdoor (V / Ph                      | nase / Hz )                     |                    | 230 / Single / 50             |                               |  |                               |                               |  |  |
| Cooling         | Design load kW                       |                                 | kW                 | -                             | 2.5                           | 3.5  | 5.0                           | 6.1                           |  |  |
|                 | Annual electricity consumption (*2)  |                                 | kWh/a              | -                             | 83                            | 129  | 205                           | 285                           |  |  |
|                 | SEER (14)                            |                                 |                    | -                             | 10.5                          | 9.5  | 8.5                           | 7.5                           |  |  |
|                 | Energy efficiency class              |                                 |                    | -                             | A+++                          | A+++   | A+++                          | A++                           |  |  |
|                 | Capacity                             | Rated                           | kW                 | -                             | 2.5                           | 3.5  | 5.0                           | 6.1                           |  |  |
|                 |                                      | Min-Max                         | kW                 | -                             | 1.0 - 3.5                     | 0.8 - 4.0                                      | 1.0 - 6.0                     | 1.4 - 6.9                     |  |  |
|                 | Total Input                          | Rated                           | kW                 | -                             | 0.485                         | 0.820  | 1.380                         | 1.790                         |  |  |
|                 | Design load                          |                                 | kW                 | -                             | 3.0 (-10°C)                   | 3.6 (-10°C)                                    | 4.5 (-10°C)                   | 6.0 (-10°C)                   |  |  |
|                 | Declared<br>Capacity                 | at reference design temperature | kW                 | -                             | 3.0 (-10°C)                   | 3.6 (-10°C)                                    | 4.5 (-10°C)                   | 6.0 (-10°C)                   |  |  |
|                 |                                      | at bivalent temperature         | kW                 | -                             | 3.0 (-10°C)                   | 3.6 (-10°C)                                    | 4.5 (-10°C)                   | 6.0 (-10°C)                   |  |  |
|                 | Capacity                             | at operation limit temperature  | kW                 | -                             | 2.5 (-15°C)                   | 3.2 (-15°C)                                    | 4.2 (-15°C)                   | 6.0 (-15°C)                   |  |  |
| leating         | Back up heating                      | g capacity                      | kW                 | -                             | 0.0 (-10°C)                   | 0.0 (-10°C)                                    | 0.0 (-10°C)                   | 0.0 (-10°C)                   |  |  |
| verage          | Annual electricity                   | consumption (*2)                | kWh/a              | -                             | 807                           | 987  | 1369                          | 1816                          |  |  |
| Season)(*5)     | SCOP (*4)                            | SCOP (4)                        |                    | -                             | 5.2                           | 5.1  | 4.6                           | 4.6                           |  |  |
|                 |                                      | Energy efficiency class         |                    | -                             | A+++                          | A+++   | A++                           | A++                           |  |  |
|                 | Capacity                             | Rated                           | kW                 | -                             | 3.2                           | 4.0  | 6.0                           | 6.8                           |  |  |
|                 |                                      | Min-Max                         | kW                 | -                             | 0.7 - 5.4                     | 0.9 - 6.3                                      | 1.0 - 8.2                     | 1.8 - 9.3                     |  |  |
|                 | Total Input                          | Rated                           | kW                 | -                             | 0.600                         | 0.820  | 1.480                         | 1.810                         |  |  |
| Operatin        | g Current (Max)                      |                                 | A                  | -                             | 7.1                           | 9.9  | 13.9                          | 15.2                          |  |  |
| Indoor<br>Unit  | Input                                | Rated                           | kW                 | 0.027                         | 0.027                         | 0.027  | 0.034                         | 0.040                         |  |  |
|                 | Operating Curre                      | ent(Max)                        | A                  | 0.3                           | 0.3                           | 0.3  | 0.4                           | 0.4                           |  |  |
|                 | Dimensions                           | H*W*D                           | mm                 | 307-890-233                   | 307-890-233                   | 307-890-233                                    | 307-890-233                   | 307-890-233                   |  |  |
|                 | Weight                               |                                 | kg                 | 14.5 (W) 15.5 (V, R, B)       | 14.5 (W) 15.5 (V, R, B)       | 14.5 (W) 15.5 (V, R, B)                        | 15 (W) 16 (V, R, B)           | 15 (W) 16 (V, R, B)           |  |  |
|                 | Air Volume (SLo-                     | Cooling                         | m³/min             | 4.7 - 5.9 - 7.1 - 9.2 - 12.4  | 4.7 - 5.9 - 7.1 - 9.2 - 12.4  | 4.7 - 5.9 - 7.1 - 9.2 - 13.0                   | 5.7 - 7.6 - 8.8 - 10.6 - 13.9 | 7.1 - 8.8 - 10.6 - 12.7 - 15. |  |  |
|                 | Lo-Mid-Hi-SHi <sup>(*3)</sup> )      | Heating                         | m³/min             | 4.5 - 6.6 - 7.5 - 11.0 - 13.9 | 4.5 - 6.6 - 7.5 - 11.0 - 13.9 | 4.5 - 6.6 - 7.5 - 11.0 - 13.9                  | 5.4 - 6.4 - 8.5 - 10.7 - 15.7 | 6.6 - 9.5 - 11.5 - 13.6 - 15  |  |  |
|                 | Sound Level (SPL)                    | Cooling                         | dB(A)              | 19 - 23 - 29 - 36 - 42        | 19 - 23 - 29 - 36 - 42        | 19 - 24 - 29 - 36 - 43                         | 27 - 31 - 35 - 39 - 46        | 29 - 37 - 41 - 45 - 49        |  |  |
|                 | (SLo-Lo-Mid-Hi-SHi <sup>(*3)</sup> ) | Heating                         | dB(A)              | 19 - 24 - 29 - 38 - 45        | 19 - 24 - 29 - 38 - 45        | 19 - 24 - 29 - 38 - 45                         | 25 - 29 - 34 - 39 - 47        | 29 - 37 - 41 - 45 - 49        |  |  |
|                 | Sound Level (PWL)                    | Cooling                         | dB(A)              | 58                            | 58                            | 59   | 60                            | 65                            |  |  |
| Outdoor<br>Unit | Dimensions                           | H*W*D                           | mm                 | -                             | 550-800-285                   | 550-800-285                                    | 714-800-285                   | 880-840-330                   |  |  |
|                 | Weight                               |                                 | kg                 | -                             | 33                            | 34   | 40                            | 53                            |  |  |
|                 | Air Volume Heat                      | Cooling                         | m³/min             | -                             | 34.3                          | 34.3   | 40.0                          | 48.8                          |  |  |
|                 |                                      | Heating                         | m³/min             | -                             | 32.7                          | 32.7   | 40.5                          | 55.0                          |  |  |
|                 |                                      | Cooling                         | dB(A)              | -                             | 46                            | 49   | 51                            | 55                            |  |  |
|                 |                                      | Heating                         | dB(A)              | -                             | 49                            | 50   | 54                            | 55                            |  |  |
|                 | Sound Level (PWL)                    |                                 | dB(A)              | _                             | 60                            | 61   | 64                            | 65                            |  |  |
|                 | Operating Curre                      | ent (Max)                       | A                  | -                             | 6.8                           | 9.6  | 13.5                          | 14.8                          |  |  |
|                 | Breaker Size                         |                                 | A                  | -                             | 10                            | 10   | 16                            | 16                            |  |  |
|                 | Diameter                             | Liquid/Gas                      | mm                 | -                             | 6.35/9.52                     | 6.35/9.52                                      | 6.35/9.52                     | 6.35/12.7                     |  |  |
| Ext.<br>Piping  | Max.Length                           | Out-In                          | m                  | -                             | 20                            | 20   | 30                            | 30                            |  |  |
| p9              | Max.Height                           | Out-In                          | m                  | -                             | 12                            | 12   | 12                            | 15                            |  |  |
|                 | ed Operating                         | Cooling                         | °C                 | -                             | -10 ~ +46                     | -10 ~ +46                                      | -10 ~ +46                     | -10 ~ +46                     |  |  |
| Range (Outdoor) |                                      | Heating                         | °C                 | -                             | -15 ~ +24                     | -15 ~ +24                                      | -15 ~ +24                     | -15 ~ +24                     |  |  |

(1) Refigerant with lower global warming potential (GWP) vocal contribute less to global warming the leakage contributes to dimate to change. Refigerant with lower global warming potential (GWP) vocal contribute less to 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 refigerant fluid would be leaked to the atmosphere. This approximation 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 refigerant circuit yourself or 675 in the IPCC 4th Assessment Report.
(2) Energy consumption based on standard test results. Actual energy consumption wild 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".