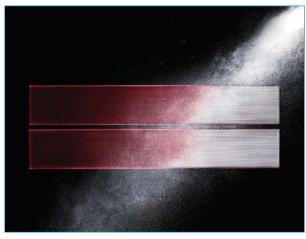


installed. Not only the sophisticated design, but also the optimum energy efficiency and operational comfort add even more value to this series.

### Luminous and Luxurious Design

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 quality 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.

Red



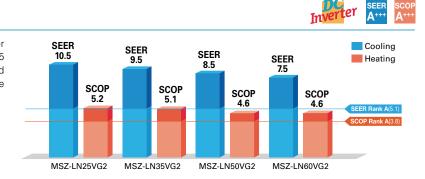




Pearl White

Natural White

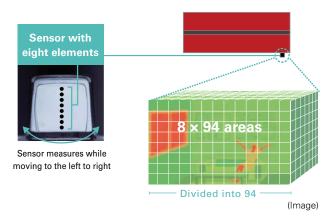
### **High Energy Efficiency**



#### 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.

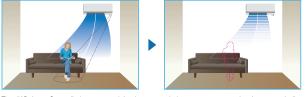
# 3D i-see Sensor

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.

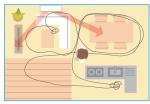
The outdoor unit starts operation automatically when the indoor temperature drops below the setting temperature.

#### **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 aii

Even airflow mode

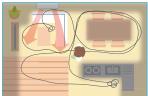
**Direct Airflow** 

(cold) day.

This setting can be used to directly target

airflow at people such as for immediate

comfort when coming indoors on a hot



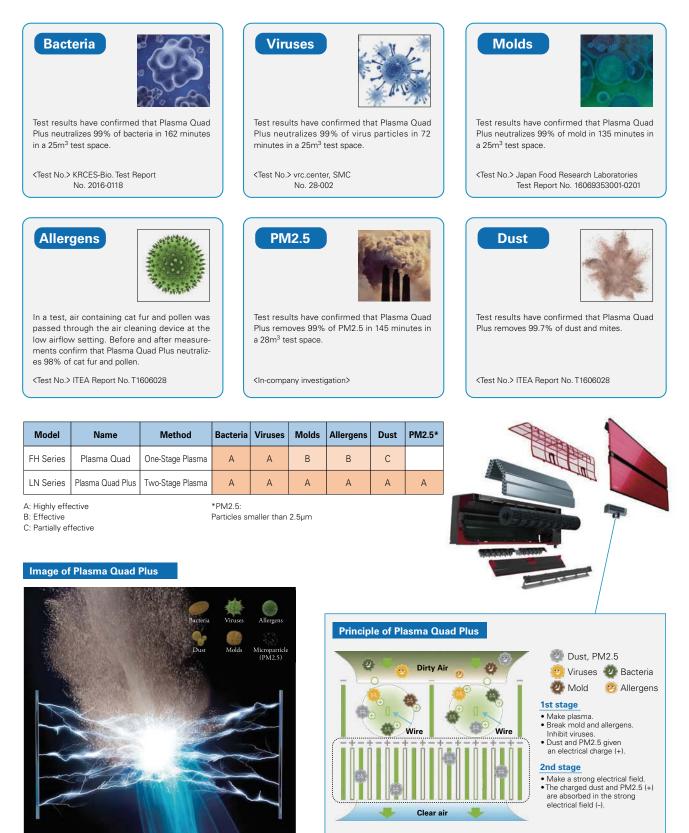
ment and furniture positions, and efficiently distributes airflow.

The 3D i-see sensor memorizes human move

18

# 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.





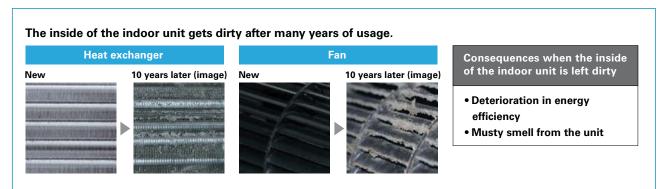
A two-barrier coating prevents dust and greasy dirt from getting into the air conditioner.



### 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. JP0501014A00020 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.



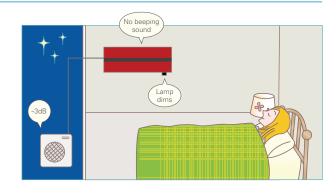


### Night Mode

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.

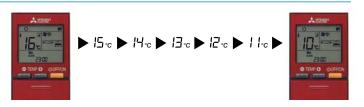
\*The cooling/heating capacity may drop.



### 10°C Heating

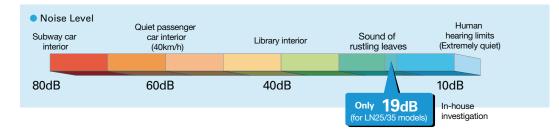
During heating operation, the temperature can be set in  $1^\circ\text{C}$  increments down to  $10^\circ\text{C}.$ 

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



## **Quiet Operation**

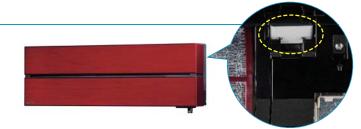
The indoor unit noise level is as low as 19dB for LN25/35 models, offering a peaceful inside environment.



### **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.



MSZ-LN SERIES	Inverter	Inverter Carlos DC Fankor PAM			
Indoor Unit / Remote Controller	R32 R410A 6000 DESIGN AWARD 20 BEST 100				
<pearl white=""></pearl>	<ruby red=""></ruby>				
MSZ-LN18/25/35/50/60VG2V	MSZ-LN18/25/35/50/60VG2R	MUZ-LN25/35VG2			
<natural white=""></natural>	<onyx black=""></onyx>	MUZ-LN50VG2			
MSZ-LN18/25/35/50/60VG2W	MSZ-LN18/25/35/50/60VG2B	MUZ-LN60VG2			
	Plaxma         V Blocking Filter         Dual Barrier Coating         Decodorising Filter         Double         SMNG         S           Optical         Optical         Optical         Optical         S         S         S         S	WNG FAUTO Weekly Si save			
Cooling Low Temp Acco State Restart Low Temp Cooling Control Optional Optional	Connection Optional Departman	Remote Connection Carlo Set Recall			

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				Si	ngle: R32 <sup>(*1)</sup> / Multi: R410A or R3:	2(*1)		
Power	Source					Outdoor Power Supply			
Supply	Outdoor (V / Ph	ase / Hz )		230 / Single / 50					
Cooling	Design load k		kW	-	2.5	3.5	5.0	6.1	
	Annual electricity consumption (*2)		kWh/a	-	83	129	205	285	
	SEER (4)			-	10.5	9.5	8.5	7.5	
	Energy efficiency class			-	A+++	A+++	A+++	A++	
		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	Design load		-	3.0 (-10°C)	3.6 (-10°C)	4.5 (-10°C)	6.0 (-10°C)	
		at reference design temperature	kW	_	3.0 (-10°C)	3.6 (-10°C)	4.5 (-10°C)	6.0 (-10°C)	
	Declared Capacity	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)	
Heating (Average Season) <sup>(*5)</sup>	Back up heating		kW	-	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	
	Annual electricity	consumption (*2)	kWh/a	-	807	987	1369	1816	
	SCOP (*4)			-	5.2	5.1	4.6	4.6	
		Energy efficiency class		_	A+++	A+++	A++	A++	
		Rated	kW	-	3.2	4.0	6.0	6.8	
	Capacity	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	
Operatir	g Current (Max)		A	-	7.1	9.9	13.9	15.2	
	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	J	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)	
ndoor	Air Volume (SLo-	Cooling	m <sup>3</sup> /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 - 15.7	
Unit	Lo-Mid-Hi-SHi <sup>(*3)</sup> )	Heating	m <sup>3</sup> /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 - 15.7	
	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("3))	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 Unit	Dimensions	H*W*D	mm	-	550-800-285	550-800-285	714-800-285	880-840-330	
	Weight	1	kg	_	33	34	40	53	
		Cooling	m³/min	-	34.3	34.3	40.0	48.8	
	Air Volume	Heating	m³/min	-	32.7	32.7	40.5	55.0	
		Cooling	dB(A)	_	46	49	51	55	
	Sound Level (SPL)	Heating	dB(A)	_	49	50	54	55	
	Sound Level (PWL)	Cooling	dB(A)	-	60	61	64	65	
	Operating Curre		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.	Max.Length	Out-In	m	-	20	20	30	30	
Piping	Max.Height	Out-In	m	-	12	12	12	15	
Guarant	eed Operating	Cooling	°C	_	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	
	Dutdoor)	Heating	°C	-	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	

(1) Refigerant 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 tiluid would be 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 tiluid would be 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 tiluid would be leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This appliance consumption the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
The GWP of R28 is 676 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) SHE 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 53-54 for heating (warmer season) specifications.