

MSZ-L SERIES

R32
Single / MXZ, PUMY
R410A
PUMY

MSZ-LN18/25/35/50/60VG2



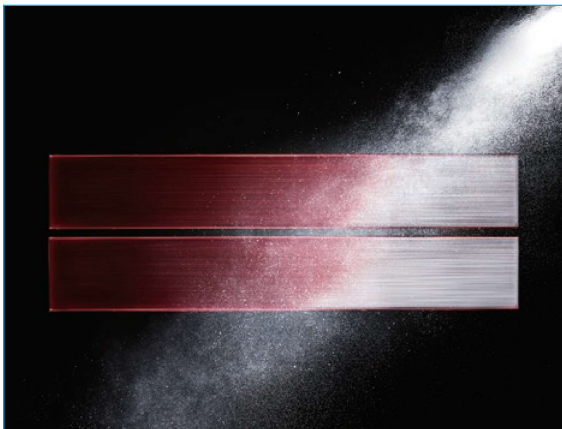
GOOD DESIGN AWARD 2016
BEST 100



Developed to complement modern interior room décor, the LN Series is available in four colours specially chosen to blend in naturally wherever 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

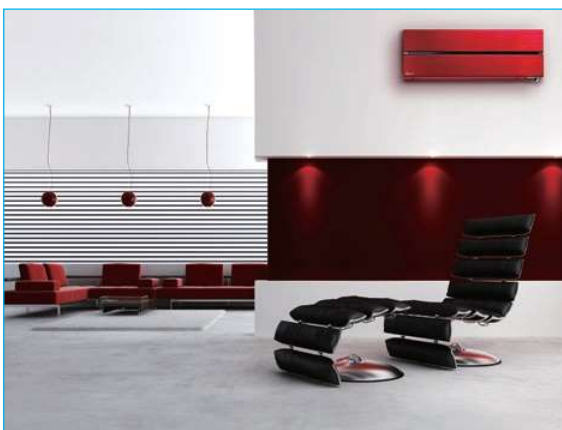
Natural White, Pearl White, Ruby Red, and Onyx Black. LN Series indoor units are available in four colours to match various lifestyles. The appearance of the indoor unit differs depending on the lighting in the room, attracting the attention of everyone that enters the room.



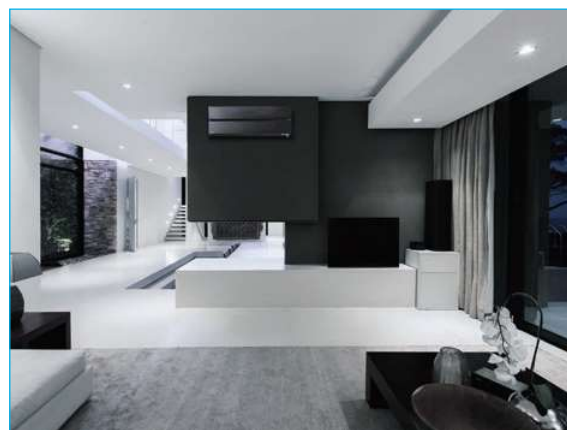
Master craftsmanship painting technology has resulted in a refined design, giving the finish deep colour and a premium quality feel.



Pearl White blends in with any interior.



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



Onyx Black matches darker interiors, creating a comfortable environment.

LED Backlight Remote Controller

Not only the indoor units, but 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.



Pearl White

Ruby Red

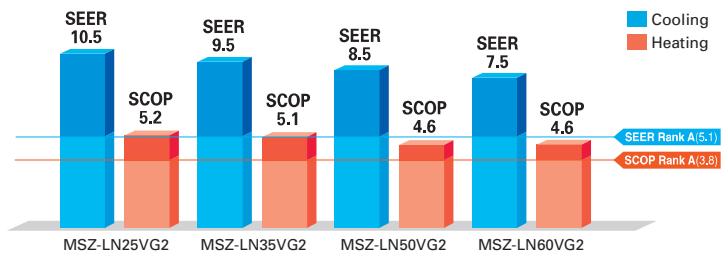
Onyx Black

Natural White

High Energy Efficiency

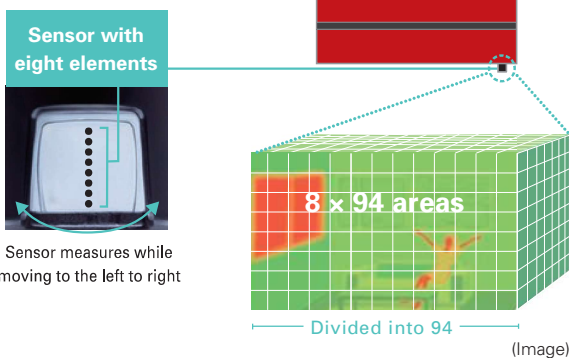


Optimum cooling/heating performance is another feature for the LN series. Models from capacities 25 to 50 have achieved the "Rank A+++" for SEER, and models for capacities 25 and 35 have achieved the "Rank A+++" for SCOP as well.



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.



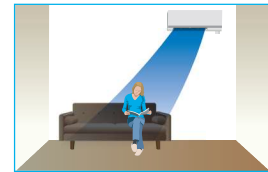
Indirect Airflow

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.

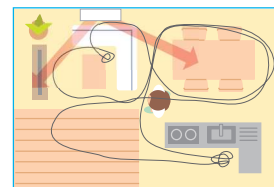


Direct Airflow

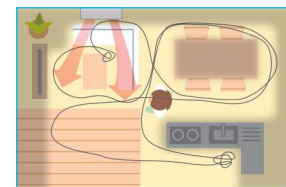
This setting can be used to directly target airflow at people such as for immediate comfort when coming indoors on a hot (cold) day.



Even Airflow *LN Series only



Even airflow mode

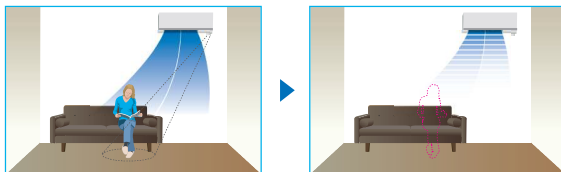


The airflow is distributed equally throughout the room, even to spaces where there is no human movement.

The 3D i-see sensor memorizes human movement and furniture positions, and efficiently distributes airflow.

No occupancy energy-saving mode

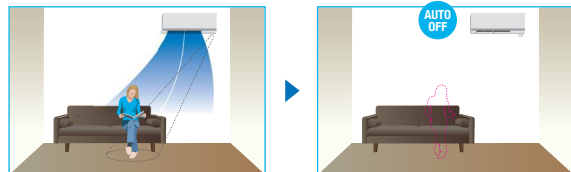
The sensors detect whether there are people in the room. When no-one is in the room, the unit automatically switches to energy-saving mode.



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.

No occupancy 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.

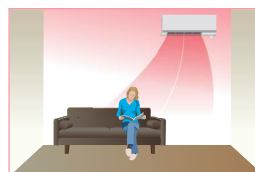


Circulator Operation

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

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.



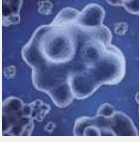

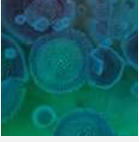
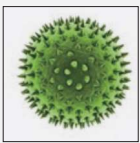


If the heating operation is continued, the warm air is formed around ceiling.



This operating can help to circulate and refresh warm air.

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.

<p>Bacteria</p>  <p>Test results have confirmed that Plasma Quad Plus neutralizes 99% of bacteria in 162 minutes in a 25m³ test space.</p> <p><Test No.> KRCES-Bio. Test Report No. 2016-0118</p>	<p>Viruses</p>  <p>Test results have confirmed that Plasma Quad Plus neutralizes 99% of virus particles in 72 minutes in a 25m³ test space.</p> <p><Test No.> vrc.center, SMC No. 28-002</p>	<p>Molds</p>  <p>Test results have confirmed that Plasma Quad Plus neutralizes 99% of mold in 135 minutes in a 25m³ test space.</p> <p><Test No.> Japan Food Research Laboratories Test Report No. 16069353001-0201</p>
<p>Allergens</p>  <p>In a test, air containing cat fur and pollen was passed through the air cleaning device at the low airflow setting. Before and after measurements confirm that Plasma Quad Plus neutralizes 98% of cat fur and pollen.</p> <p><Test No.> ITEA Report No. T1606028</p>	<p>PM2.5</p>  <p>Test results have confirmed that Plasma Quad Plus removes 99% of PM2.5 in 145 minutes in a 28m³ test space.</p> <p><In-company investigation></p>	<p>Dust</p>  <p>Test results have confirmed that Plasma Quad Plus removes 99.7% of dust and mites.</p> <p><Test No.> ITEA Report No. T1606028</p>

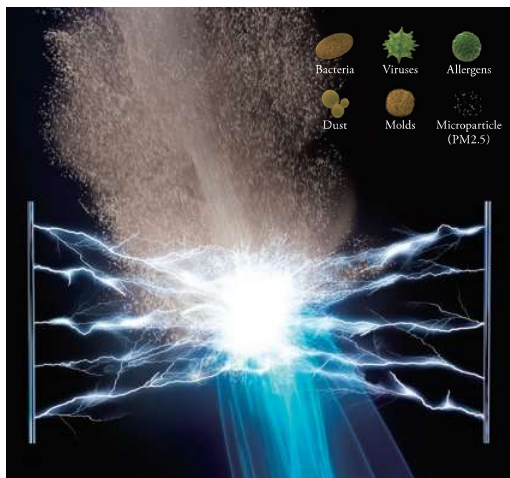
Model	Name	Method	Bacteria	Viruses	Molds	Allergens	Dust	PM2.5*
FH Series	Plasma Quad	One-Stage Plasma	A	A	B	B	C	
LN Series	Plasma Quad Plus	Two-Stage Plasma	A	A	A	A	A	A

A: Highly effective
B: Effective
C: Partially effective

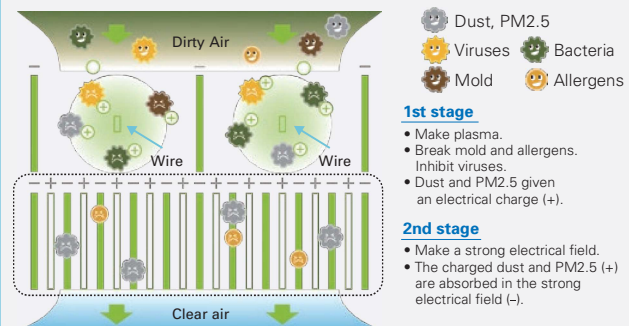
*PM2.5:
Particles smaller than 2.5µm



Image of Plasma Quad Plus



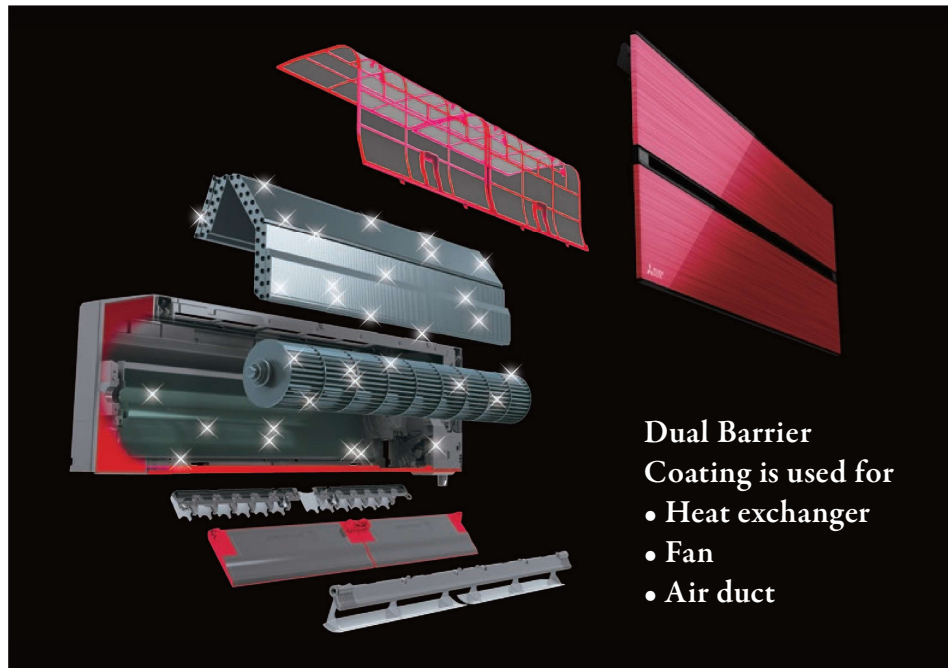
Principle of Plasma Quad Plus





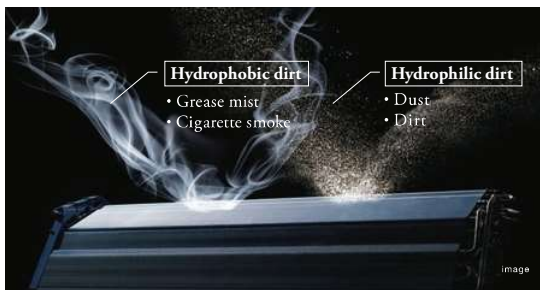
Dual Barrier Coating

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

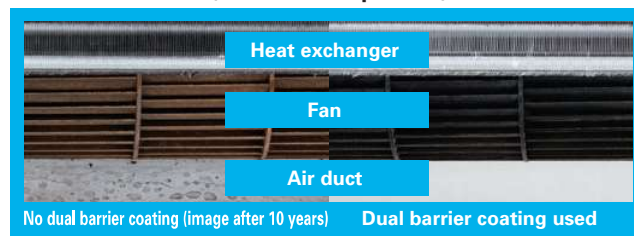


State-of-the-art coating technology

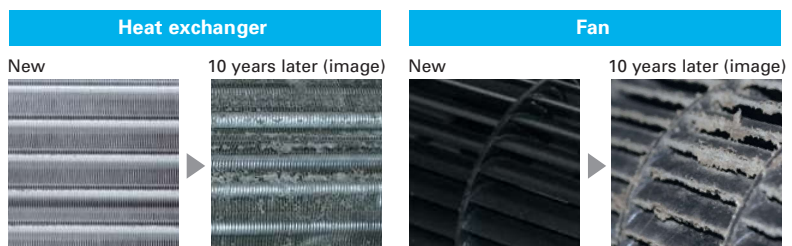
Dirt is generally classified into two groups: hydrophilic dirt such as fiber dust and sand dust, and hydrophobic dirt such as oil and cigarette smoke. Mitsubishi Electric's dual barrier coating works as a two-barrier coating with blended "fluorine particles" that prevent hydrophilic dirt penetration and "hydrophobic 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.



Comparison of dirt on heat exchanger, fan and air duct (in-house comparison)



The inside of the indoor unit gets dirty after many years of usage.



Consequences when the inside of the indoor unit is left dirty.

- Deterioration in energy efficiency.
- Musty smell from the unit.

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.

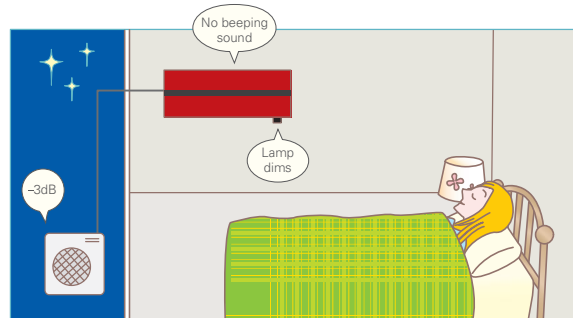


Night Mode

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.

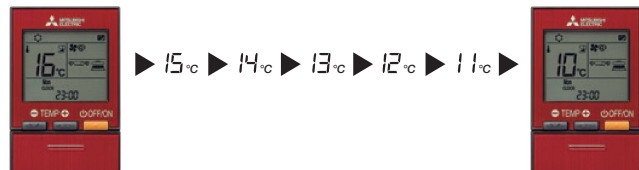
*The cooling/heating capacity may drop.



10°C Heating

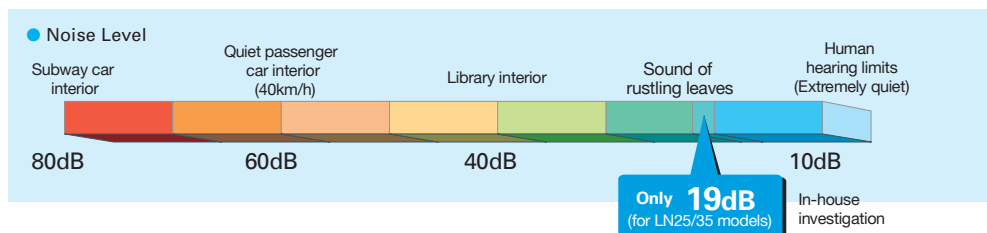
During heating operation, the temperature can be set in 1°C increments down to 10°C.

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-L SERIES



Indoor Unit / Remote Controller

R32 R410A



Outdoor Unit R32

<Pearl White>



MSZ-LN18/25/35/50/60VG2V

<Ruby Red>



MSZ-LN18/25/35/50/60VG2R

<Natural White>



MSZ-LN18/25/35/50/60VG2W

<Onyx Black>



MSZ-LN18/25/35/50/60VG2B



MUZ-LN25/35VG2



MUZ-LN50VG2



MUZ-LN60VG



Type			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-LN60VG	
Refrigerant			Single: R32 ⁽¹⁾ / Multi: R410A or R32 ⁽¹⁾					
Power Supply	Source	Outdoor Power Supply						
	Outdoor (V / Phase / Hz)	230 / Single / 50						
Cooling	Design load	kW	—	2.5	3.5	5.0	6.1	
	Annual electricity consumption ⁽²⁾	kWh/a	—	83	129	205	285	
	SEER ⁽³⁾		—	10.5	9.5	8.5	7.5	
	Energy efficiency class	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
Capacity	Rated	kW	—	0.485	0.820	1.380	1.790	
	Total Input	kW	—	—	—	—	—	
Heating (Average Season) ⁽⁵⁾	Design load	kW	—	3.0 (-10°C)	3.6 (-10°C)	4.5 (-10°C)	6.0 (-10°C)	
	Declared Capacity	at reference design temperature	kW	—	3.0 (-10°C)	3.6 (-10°C)	4.5 (-10°C)	6.0 (-10°C)
		at bi-variant temperature	kW	—	3.0 (-10°C)	3.6 (-10°C)	4.5 (-10°C)	6.0 (-10°C)
		at operation limit temperature	kW	—	2.5 (-15°C)	3.2 (-15°C)	4.2 (-15°C)	6.0 (-15°C)
	Back up heating capacity	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	1826	
	SCOP ⁽⁴⁾		—	5.2	5.1	4.6	4.6	
	Energy efficiency class	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
	Capacity	Rated	kW	—	0.600	0.820	1.480	1.810
Total Input		kW	—	—	—	—	—	
Operating Current (Max)	Rated	A	—	7.1	9.9	13.9	15.2	
	Input	kW	0.027	0.027	0.027	0.034	0.040	
Indoor Unit	Operating Current(Max)	A	0.3	0.3	0.3	0.4	0.4	
	Dimensions	H*W*D	307-890-233					
	Weight	kg	14.5 (W)	14.5 (W)	14.5 (W)	15 (W)	15 (W)	
	Air Volume (SLo-Lo-Mid-Hi-SH ⁽³⁾) (Dry/Wet)	Cooling	m ³ /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
		Heating	m ³ /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) (SLo-Lo-Mid-Hi-SH ⁽³⁾)	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
		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)	dB(A)	58	58	59	60	65	
	Dimensions	H*W*D	550-800-285					
	Weight	kg	—	33	34	40	55	
Air Volume	Cooling	m ³ /min	—	34.3	34.3	40.0	50.1	
	Heating	m ³ /min	—	32.7	32.7	40.5	51.3	
Sound Level (SPL)	Cooling	dB(A)	—	46	49	51	55	
	Heating	dB(A)	—	49	50	54	55	
Sound Level (PWL)	dB(A)	—	60	61	64	65		
Operating Current (Max)	A	—	6.8	9.6	13.5	14.8		
Breaker Size	A	—	10	10	16	16		
Ext. Piping	Diameter	Liquid/Gas	—	6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.7	
	Max.Length	Out-In	—	20	20	30	30	
	Max.Height	Out-In	—	12	12	12	15	
Guaranteed Operating Range (Outdoor)	Cooling	°C	—	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	
	Heating	°C	—	-15 ~ +24	-15 ~ +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 CO₂ 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 R32 is 675 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) SH: 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.