

# LN VGHZ SERIES

R32 Single / MXZ, PUMY R410A PUMY

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.



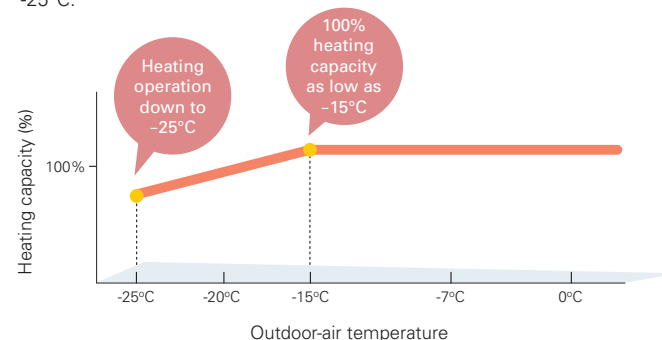
MSZ-LN25/35/50VG2(W)(V)(R)(B)



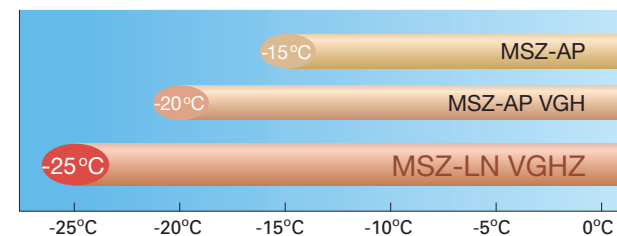
Powerful Core for powerful heating

## Unparalleled Heating Performance

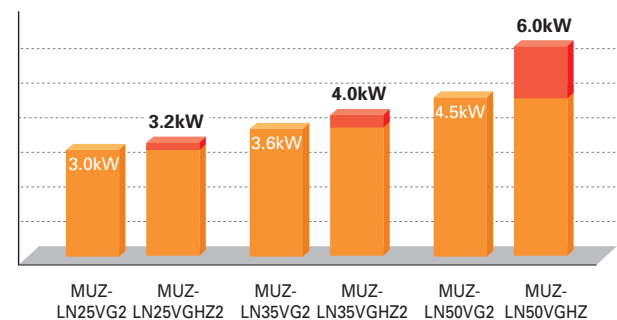
LN Series outdoor units are equipped with a high-output compressor that provides enhanced heating performance under low outdoor temperatures. The heating operation range is extended down to -25°C.



## Operating Range

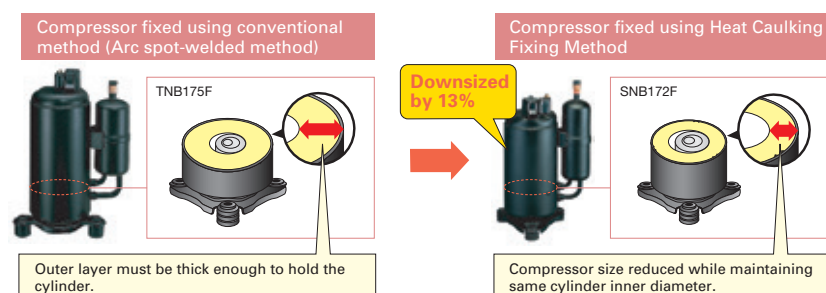


## Declared Capacity (at reference design temperature)



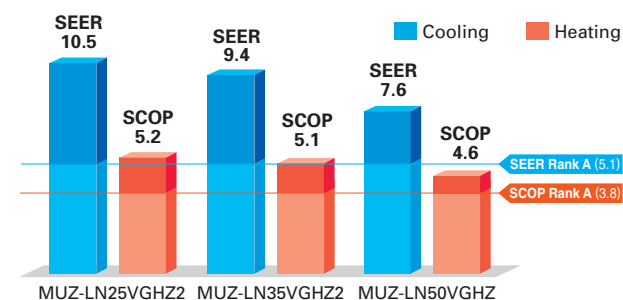
## Compact, Powerful Compressor

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.



## High Energy Efficiency – Energy Rank of A+ 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.



## 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.



## MSZ-LN VGHZ SERIES



### Indoor Unit / Remote Controller

<Pearl White>



MSZ-LN25/35/50VG2V

<Ruby Red>



MSZ-LN25/35/50VG2R

<Natural White>



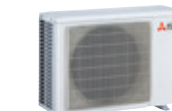
MSZ-LN25/35/50VG2W

<Onyx Black>



MSZ-LN25/35/50VG2B

### Outdoor Unit



MUZ-LN25/35VGHZ2



MUZ-LN50VGHZ



Type	Indoor Unit	MSZ-LN25VG2(W)(V)(R)(B)	MSZ-LN35VG2(W)(V)(R)(B)	MSZ-LN50VG2(W)(V)(R)(B)		
Outdoor Unit		MUZ-LN25VGHZ2	MUZ-LN35VGHZ2	MUZ-LN50VGHZ		
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	83	130	230	
	SEER <sup>(*)4</sup>		10.5	9.4	7.6	
		Energy Efficiency Class	A+++	A+++	A++	
	Capacity	Rated	kW	2.5	3.5	5.0
	Min - Max	kW	0.8 - 3.5	0.8 - 4.0	1.4 - 5.8	
	Total Input	Rated	kW	0.485	0.820	1.380
Heating (Average Season <sup>(*)5</sup> )	Design Load	kW	3.2 (-10°C)	4.0 (-10°C)	6.0 (-10°C)	
	Declared Capacity	at reference design temperature	kW	3.2 (-10°C)	4.0 (-10°C)	6.0 (-10°C)
		at bivalent temperature	kW	3.2 (-10°C)	4.0 (-10°C)	6.0 (-10°C)
		at operation limit temperature	kW	2.3 (-25°C)	3.1 (-25°C)	4.7 (-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	861	1098	1826	
	SCOP <sup>(*)4</sup>		5.2	5.1	4.6	
		Energy Efficiency Class	A+++	A+++	A++	
	Capacity	Rated	kW	3.2	4.0	6.0
		Min - Max	kW	0.8 - 6.3	0.9 - 6.6	1.8 - 8.7
	Total Input	Rated	kW	0.600	0.820	1.480
Operating Current (max)		A	9.9	10.5	15.2	
Indoor Unit	Input	Rated	kW	0.027	0.027	0.034
	Operating Current (max)		A	0.3	0.3	0.4
	Dimensions	H x W x D	mm	307 - 890 - 233	307 - 890 - 233	307 - 890 - 233
	Weight		kg	15.5	15.5	15.5
	Air Volume (SLo-Lo-Mid-Hi-SHi <sup>(*)3</sup> )	Cooling	m <sup>3</sup> /min	4.3 - 5.8 - 7.1 - 8.8 - 11.9	4.3 - 5.8 - 7.1 - 8.8 - 12.8	5.7 - 7.6 - 8.9 - 10.6 - 13.9
		Heating	m <sup>3</sup> /min	4.0 - 5.7 - 7.1 - 8.5 - 14.4	4.3 - 5.7 - 7.1 - 8.5 - 13.7	5.4 - 6.4 - 8.5 - 10.7 - 15.7
	Sound Level (SPL) (SLo-Lo-Mid-Hi-SHi <sup>(*)3</sup> )	Cooling	dB(A)	19 - 23 - 29 - 36 - 42	19 - 24 - 29 - 36 - 43	27 - 31 - 35 - 39 - 46
		Heating	dB(A)	19 - 24 - 29 - 36 - 45	19 - 24 - 29 - 36 - 45	25 - 29 - 34 - 39 - 47
	Sound Level (PWL)		dB(A)	58	58	60
	Outdoor Unit	Dimensions	H x W x D	mm	550 - 800 - 285	550 - 800 - 285
Weight			kg	35	36	55
Air Volume		Cooling	m <sup>3</sup> /min	31.4	33.8	48.8
		Heating	m <sup>3</sup> /min	27.4	27.4	51.3
Sound Level (SPL)		Cooling	dB(A)	46	49	51
	Heating	dB(A)	49	50	54	
Sound Level (PWL)		dB(A)	60	61	64	
Operating Current (max)		A	9.6	10.2	14.8	
Breaker Size		A	10	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	20	30
	Max. Height	Out-In	m	12	12	15
Guaranteed Operating Range [Outdoor]	Cooling	°C	-10 ~ +46	-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 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. 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 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/colder season) specifications.