

## **Exceptional wall heat pump (conditioner) MSZ-LN-VGHZ (up to -35°C!)**

The exclusive design MSZ-LN-VGHZ heat pump with unique HyperHeating technology, wifi adapter, I-see temperature sensor and other technological innovations provides heat even up to -35°C outside temperature. It is one of the quietest and most efficient heat pump in market.



### **Smart air-to-air heat pump that does not leave indifferent! New coolant R32**

*In market since 2017 June*

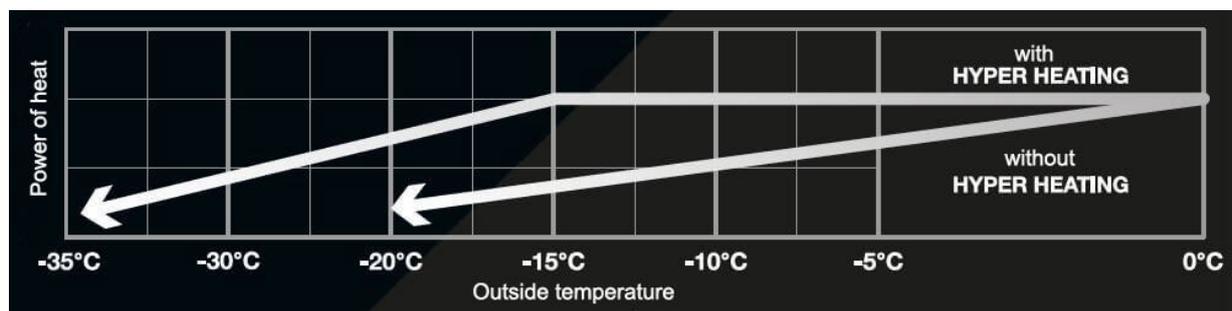
### **VERY LOVELY DESIGN**

The new MSZ-LN-VGHZ heat pumps are MITSUBISHI ELECTRIC pride. They do not leave indifference to the impressive design and color gamut. Even the color of the remote control is matched to the color of the internal device. You can choose from a palette of four colors: plain white, pearl white, red and black in-house devices. Whatever color you choose, this heat pump will undoubtedly become an exclusive home interior detail!

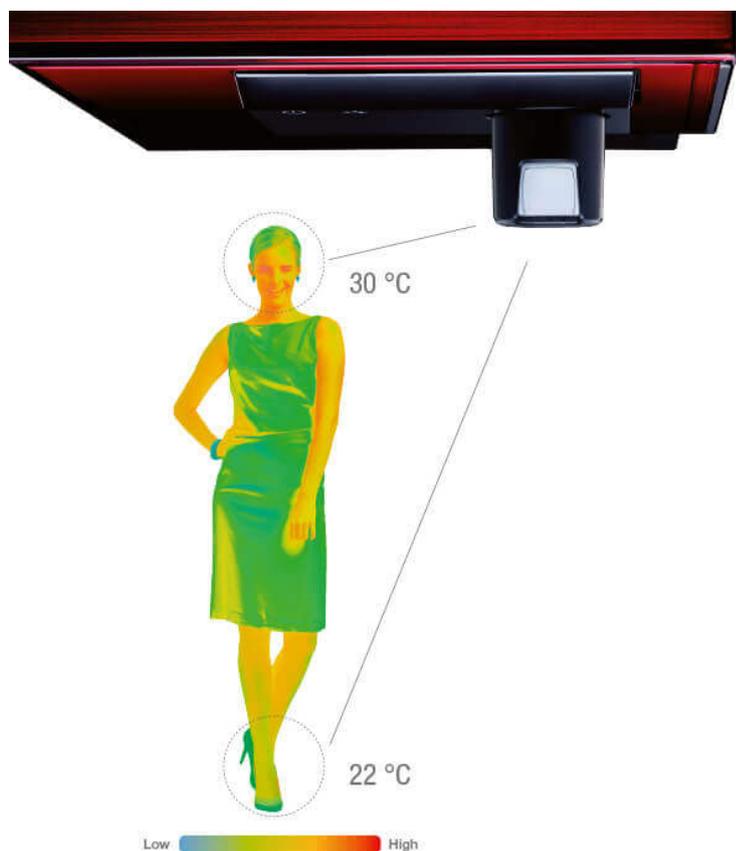


## “HYPER HEATING” TECHNOLOGY

Due to the installed HYPER HEATING technology, the new MSZ-LN-VGHZ series heat pumps have a nominal heat output of up to  $-15^{\circ}\text{C}$ . The manufacturer guarantees efficient and economical heat supply up to  $-25^{\circ}\text{C}$ , but tests have shown that this unit **works even up to  $-35^{\circ}\text{C}$  frost!** So, even on the heaviest days, this heat pump is able to provide the necessary heat for the premises. Extremely high seasonal performance (both for heating and cooling) ensures low operating costs.



## SMART 3D TEMPERATURE SENSOR FOR ENSURE MAXIMUM COMFORT AND SAVINGS



The MSZ-LN-VGHZ series heat pumps have even more advanced 3D I-see infrared temperature sensor, which allows you to fully control the functions of the unit and reduce power consumption. It is precisely because of this sensor that the heat pump is capable of distributing heat or cool throughout the space evenly. The “I-see” sensor is so clever that it senses where people are in the room, and it adjusts the work of the device - it “remembers” where you spend most of your time in places and always maintains the most comfortable temperature.



You can also set the heat pump to blow air towards you or vice versa. This is especially actually during cooling, as it prevents you from colds and discomfort.



When there is nothing in the room, depending on the operating mode, the air temperature can be automatically reduced or increased by two degrees. It's an insignificant change, but in the long run it can save you a lot of money.

## INTEGRATED WiFi ADAPTER FOR REMOTE CONTROL



The MSZ-LN-VGHZ heat pump produces a fully integrated WIFI adapter, connected via the free Mitsubishi Electric MELCloud Apps, allowing you to fully control the work of the heat pump, no matter where you are - whether you lie on your couch at home or travel far away from home. It's easy - by choosing a network and entering a password, you will automatically log into MELCloud and you will be able to fully control your device.

## VERY EFFICIENT MULTIPLE FILTER SYSTEM



The MSZ-LN-VGHZ series heat pumps not only perfectly heat and cool, but also clean your home's air. Highly effective platform Plasma Quad four-filter system eliminates dust, mold spores, pollen and other unwanted microscopic particles. This ensures a healthier and more comfortable indoor climate.

	Filter system	Method	Fungals	Viruses	Mold spores	Allergens	Dusts	Microscopic particles
MSZ-FD	„Plasma Duo“	Ion + filter	-	-	-	C	C	-
MSZ-FH	„Plasma Quad“	Single-Stage Plasma	A	A	B	B	C	-
<b>MSZ-LN</b>	<b>NEW „Plasma Quad“</b>	<b>Double-Stage Plasma</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>

A - Very effective

B - Effective

C - Partially effective

PM2.5 - microscopic particles smaller than 2.5 µm

## Extremely quiet operation

MITSUBISHI ELECTRIC heat pumps are always distinguished by low noise levels. The new MSZ-LN-VGHZ series devices also feature a unique technology that allows both internal and external devices to work extremely quiet. The internal block noise level is only 19dB. Meanwhile, the outdoor device is unique in night mode, which reduces its noise level to 3 dB so you do not hear anything at all and sleep well.

In addition, when the night mode is activated, the LED of the internal unit is dimmed and the reception signal of remote control is muted.



## MAXIMUM PROTECTED FROM DIRT

Due installed double protection barrier in the MSZ-LN-VGHZ , the heat exchanger and fan are better protected against dust, smoke and other dirt. This allows you to improve energy efficiency and extend the life of the equipment.



## DOUBLE AIR BLOW BLADES

Thanks to the double flap, airflow is directed widely and accurately wherever it is needed. As the blades are further split half way, the inflow air can be directed at different levels of the house at the same time.

## I-SAVE FUNCTION

“I-save” function – normally, by pressing one button, the desired (preset) indoor air temperature and other parameters (fan speed, air flow direction) are set. This function can be used, for example, when sleeping, leaving the room, and so on. (In which case it is useful to set energy-saving parameters) or just to quickly activate your favorite heat pump operating mode.

## MINIMUM INTERNAL TEMPERATURE CONTROL

When the heat pump is in the heating mode, the “I-save” function can be set to set the minimum internal temperature. This minimum temperature is normally maintained in bungalows, garden houses, bathhouses, attics, in other permanently unoccupied premises, or when leaving home for a longer period of time. You no longer need to choose between +10 or + 16 °C. Now you can set +10, 11, 12, 13 .... °C

## WEEKLY PROGRAMMING

Thanks to the remote control it is possible to program the work of the MSZ-LN-VGHZ heat pump for the whole week. You will be able to reduce the room temperature in those hours until you are away at home or in your sleep, and at other times enjoy the comfort of the heat.

## PROTECTIVE GRILL

As an additional accessory, you can [choose wooden protective grilles](#) to hide the external device of the heat pump (conditioner) MSZ-LN-VGHZ. The grilles can be matched to the facade of your home by painting the desired color. In this way, they will perform not only protective, but also aesthetic function.

## Indoor unit specifications

Indoor unit	MSZ-LN25VG	MSZ-LN35VG	MSZ-LN50VG
Weight (kg)	15,5	15,5	15,5
Dimensions (mm)	307 x 890 x 233	307 x 890 x 233	307 x 890 x 233
Airflow (m <sup>3</sup> /min.):			
For heating	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
For cooling	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
Level of noise (dB(A)):			
For heating	19-24-29-36-45	19-24-29-36-45	25-29-34-39-47
For cooling	19-23-29-36-42	19-24-29-36-43	27-31-35-39-46
Nominal electric power consumption (kW)	0,029	0,029	0,034

Maximum operating current (A)	0,3	0,3	0,4
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\*More information on seasonal energy efficiency coefficients is available [here](#). MSZ-LN-VG indoor units can also be matched with outdoor units of Multi Split MXZ series heat pumps (air conditioners). In such a case a few indoor sections can be connected to one outdoor section.

## Outdoor unit specifications

Full name of a set	MSZ-LN25VGHZ	MSZ-LN35VGHZ	MSZ-LN50VGHZ
<b>Outdoor unit</b>	<b>MUZ-LN25VGHZ</b>	<b>MUZ-LN35VGHZ</b>	<b>MUZ-LN50VGHZ</b>
Heating power (kW) (Nom.(Min.-Max.))	3,2 (1,0-6,3)	4,0 (1,0-6,6)	6,0 (1,7-8,7)
SCOP* (Seasonal Coefficient of Performance)	5,2	5,1	4,6
Seasonal energy efficiency class	A+++	A+++	A++
Nominal electric power consumption (kW)	0,580	0,800	1,480
Cooling power (kW) (Nom.(Min.-Max.))	2,5 (0,8-3,5)	3,5 (0,8-4,0)	5,0 (1,4-5,8)
SEER* (Seasonal Energy Efficiency Ratio)	10,5	9,4	7,6
Seasonal energy efficiency class	A+++	A+++	A++
Nominal electric power consumption (kW)	0,485	0,820	1,380
Weight (kg)	35	36	55
Dimensions (mm)	550-800-285	550-800-285	880-840-330
Airflow (m <sup>3</sup> /min) for heating/cooling	27,4/31,4	27,4/33,8	51,3/48,8
Level of noise (dB(A)) for heating/cooling	49/46	50/49	54/51
Power supply voltage (V/fazê/Hz)	230/1/50	230/1/50	230/1/50
Maximum operating current (A)	9,6	10,2	14,8
Recommended fuse (A)	10	12	16
Pipe bores (gas/liquid)	9,52/6,35 (3/8"../1/4")	9,52/6,35 (3/8"../1/4")	9,52/6,35 (3/8"../1/4")
Maximum pipe length between indoor / outdoor un. (m)	20	20	30

Full name of a set	MSZ-LN25VGHZ	MSZ-LN35VGHZ	MSZ-LN50VGHZ
Maximum height difference between indoor / outdoor un. (m)	12	12	15
Temperature range for guaranteed cost-efficient operation (°C):			
For heating**	<b>-25~+24</b>	<b>-25~+24</b>	<b>-25~+24</b>
For cooling	-10~+46	-10~+46	-10~+46

\*About seasonal energy efficiency ratio more information [here](#)

\*\* The testing of the equipment guarantees the operation of the heat pumps up to -35°C outside temperature.