



ENERGY

MITSUBISHI ELECTRIC
CORPORATION

Indoor MSZ-LN50VG2
Outdoor MUZ-LN50VG2

SEER



A⁺⁺⁺

A⁺⁺

A⁺

A

B

C

D

A⁺⁺⁺

kW 5.0

SEER 8.5

kWh/annum 205

SCOP



A⁺⁺⁺

A⁺⁺

A⁺

A

B

C

D

A⁺⁺⁺

A⁺⁺

kW 2.5

SCOP 5.8

kWh/annum 602

4.5

4.6

1369

X

X

X



60dB



64dB



626/2011

JG79N105H01

PRODUCT INFORMATION (*1)

ROOM AIR CONDITIONER	INDOOR MODEL	MSZ-LN50VG2W
		MSZ-LN50VG2V
		MSZ-LN50VG2B
		MSZ-LN50VG2R
	OUTDOOR MODEL	MUZ-LN50VG2

Function (indicate if present)		If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.	
cooling	Y	Average (mandatory)	Y
heating	Y	Warmer (if designated)	Y
		Colder (if designated)	N

Item	symbol	value	unit	Item	symbol	value	unit
Design load				Seasonal efficiency			
cooling	P _{designc}	5.0	kW	cooling	SEER	8.5	-
heating/Average	P _{designh}	4.5	kW	heating/Average	SCOP/A	4.6	-
heating/Warmer	P _{designh}	2.5	kW	heating/Warmer	SCOP/W	5.8	-
heating/Colder	P _{designh}	x	kW	heating/Colder	SCOP/C	x	-

Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature T _j				Declared energy efficiency ratio, at indoor temperature 27(19) °C and outdoor temperature T _j			
T _j =35°C	P _{dc}	5.0	kW	T _j =35°C	EER _d	3.7	-
T _j =30°C	P _{dc}	3.7	kW	T _j =30°C	EER _d	5.9	-
T _j =25°C	P _{dc}	2.4	kW	T _j =25°C	EER _d	10.1	-
T _j =20°C	P _{dc}	1.3	kW	T _j =20°C	EER _d	18.0	-

Declared capacity for heating/Average season, at indoor temperature 20°C and outdoor temperature T _j				Declared coefficient of performance/Average season, at indoor temperature 20°C and outdoor temperature T _j			
T _j =-7°C	P _{dh}	4.0	kW	T _j =-7°C	COP _d	3.0	-
T _j =2°C	P _{dh}	2.5	kW	T _j =2°C	COP _d	4.6	-
T _j =7°C	P _{dh}	1.6	kW	T _j =7°C	COP _d	5.8	-
T _j =12°C	P _{dh}	0.9	kW	T _j =12°C	COP _d	6.6	-
T _j =bivalent temperature	P _{dh}	4.5	kW	T _j =bivalent temperature	COP _d	2.7	-
T _j =operating limit	P _{dh}	4.2	kW	T _j =operating limit	COP _d	1.0	-

Declared capacity for heating/Warmer season, at indoor temperature 20°C and outdoor temperature T _j				Declared coefficient of performance/Warmer season, at indoor temperature 20°C and outdoor temperature T _j			
T _j =2°C	P _{dh}	2.5	kW	T _j =2°C	COP _d	4.6	-
T _j =7°C	P _{dh}	1.6	kW	T _j =7°C	COP _d	5.8	-
T _j =12°C	P _{dh}	0.9	kW	T _j =12°C	COP _d	6.6	-
T _j =bivalent temperature	P _{dh}	2.5	kW	T _j =bivalent temperature	COP _d	4.6	-
T _j =operating limit	P _{dh}	4.2	kW	T _j =operating limit	COP _d	1.0	-

Declared capacity for heating/Colder season, at indoor temperature 20°C and outdoor temperature T _j				Declared coefficient of performance/Colder season, at indoor temperature 20°C and outdoor temperature T _j			
T _j =-7°C	P _{dh}	x	kW	T _j =-7°C	COP _d	x	-
T _j =2°C	P _{dh}	x	kW	T _j =2°C	COP _d	x	-
T _j =7°C	P _{dh}	x	kW	T _j =7°C	COP _d	x	-
T _j =12°C	P _{dh}	x	kW	T _j =12°C	COP _d	x	-
T _j =bivalent temperature	P _{dh}	x	kW	T _j =bivalent temperature	COP _d	x	-
T _j =operating limit	P _{dh}	x	kW	T _j =operating limit	COP _d	x	-
T _j =-15°C	P _{dh}	x	kW	T _j =-15°C	COP _d	x	-

Bivalent temperature				Operating limit temperature			
heating/Average	T _{biv}	-10	°C	heating/Average	T _{ol}	-15	°C
heating/Warmer	T _{biv}	2	°C	heating/Warmer	T _{ol}	-15	°C
heating/Colder	T _{biv}	x	°C	heating/Colder	T _{ol}	x	°C

Cycling interval capacity				Cycling interval efficiency			
for cooling	P _{cycc}	x	kW	for cooling	EER _{cycc}	x	-
for heating	P _{cyh}	x	kW	for heating	COP _{cycc}	x	-
Degradation co-efficient cooling	C _{dc}	0.25	-	Degradation co-efficient heating	C _{dh}	0.25	-

Electric power input in power modes other than 'active mode'				Annual electricity consumption			
off mode	P _{OFF}	1	W	cooling	Q _{CE}	205	kWh/a
standby mode	P _{SB}	1	W	heating/Average	Q _{HE}	1369	kWh/a
thermostat - off mode	P _{TO}	8	W	heating/Warmer	Q _{HE}	602	kWh/a
crankcase heater mode	P _{CK}	0	W	heating/Colder	Q _{HE}	x	kWh/a

Capacity control (indicate one of three options)				Other items			
fixed	N			Sound power level (indoor/outdoor)	L _{WA}	60/64	dB(A)
staged	N			Global warming potential	GWP (*2)	675	kgCO ₂ eq.
variable	Y			Rated air flow (indoor/outdoor)	-	834/942	m ³ /h

Contact details for obtaining more information	MITSUBISHI ELECTRIC CORPORATION SHIZUOKA WORKS 3-18-1, Oshika, Suruga-ku, Shizuoka 422-8528, Japan E-mail: melshierp@MitsubishiElectric.co.jp						
--	---	--	--	--	--	--	--

(*1) This information is based on the "product information requirement" in COMMISSION REGULATION (EU) No. 206/2012.

(*2) This GWP value is based on Regulation(EU)No. 517/2014 from IPCC 4th Assessment Report.

For Regulation (EU) No. 626/2001, which cites the IPCC Third Assessment Report, Climate Change 2001, the GWP is 550.

TECHNICAL DOCUMENTATION ⁽¹⁾			
ROOM AIR CONDITIONER	INDOOR MODEL	MSZ-LN50VG2W	307H*890W*233D (mm)
		MSZ-LN50VG2V	
		MSZ-LN50VG2B	
		MSZ-LN50VG2R	
	OUTDOOR MODEL	MUZ-LN50VG2	714H*800W*285D (mm)
Function			
	cooling		Y
	heating		Y
The heating season			
	Average (mandatory)		Y
	Warmer (if designated)		Y
	Colder (if designated)		N
Capacity control			
	fixed		N
	staged		N
	variable		Y
Item	symbol	value	unit
Seasonal efficiency ⁽²⁾			
cooling	SEER	8.5	-
heating/Average	SCOP/A	4.6	-
heating/Warmer	SCOP/W	5.8	-
heating/Colder	SCOP/C	x	-
Energy efficiency class			
cooling	SEER	A+++	-
heating/Average	SCOP/A	A++	-
heating/Warmer	SCOP/W	A+++	-
heating/Colder	SCOP/C	x	-
Other items			
Sound power level (indoor/outdoor)	L _{WA}	60/64	dB(A)
Refrigerant	-	R32	-
Global warming potential	GWP ⁽³⁾	675	kgCO ₂ eq.
identification and signature of the person empowered to bind the supplier	 Tadashi Saito Department Manager, Quality Assurance Department MITSUBISHI ELECTRIC CONSUMER PRODUCTS(THAILAND) CO.,LTD		

(1) This information is based on COMMISSION DELEGATED REGULATION (EU)No. 626/2011.

(2) SEER/SCOP values are measured based on EN 14825:2016: Testing and rating at part load conditions and calculation of seasonal performance.

(3) This GWP value is based on Regulation(EU)No. 517/2014 from IPCC 4th Assessment Report.

For Regulation (EU) No. 626/2001, which cites the IPCC Third Assessment Report, Climate Change 2001, the GWP is 550.