

HVAC System Calculator Results

Eu - MXZ Series

Outdoor Unit: MXZ-4F83VFHZ3

Cooling Performance

7.30

SEER (Seasonal Energy Efficiency Ratio)

A++

8.3 kW

Heating Performance

4.30

SCOP (Seasonal Coefficient of Performance)

A+

10.1 kW

Annual Energy Consumption

398

kWh/year (Cooling)

3,286

kWh/year (Heating)

3,684

kWh/year (Total)

Sound Levels

66 dB(A)

Outdoor Unit

58 dB(A)

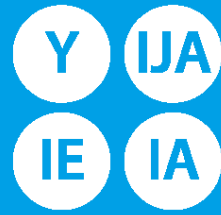
Indoor Unit

EU Energy Label



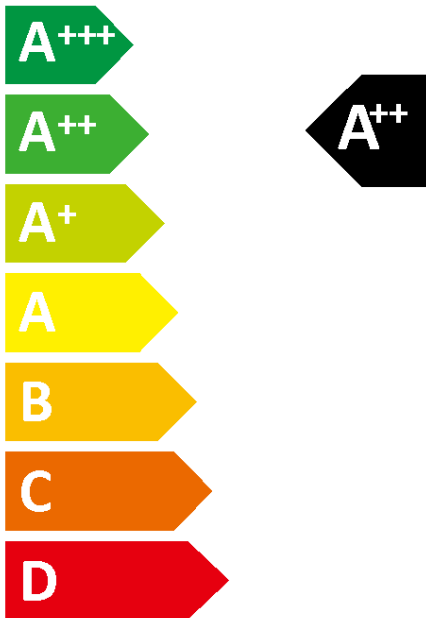
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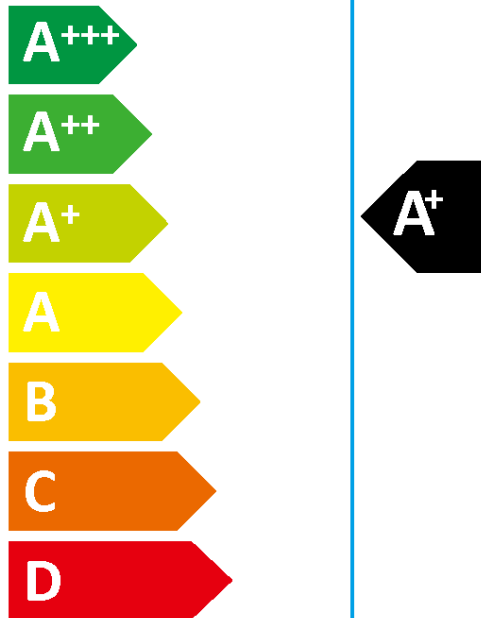
MSZ-LN18VG3/MSZ-LN18VG3/MSZ-LN25VC
MSZ-LN25VG3/MXZ-4F83VFHZ3

SEER



kW 8.3
SEER 7.3
kWh/annum 398

SCOP



kW	X	10.1	X
SCOP	X	4.3	X
kWh/annum	X	3286	X

58dB

66dB



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Product Data Fiche

A	Model	C	Outdoor unit	MXZ-4F83VFHZ3				
			B	Indoor unit 1	MSZ-LN18VG3			
				Indoor unit 2	MSZ-LN18VG3			
				Indoor unit 3	MSZ-LN25VG3			
				Indoor unit 4	MSZ-LN25VG3			
				Indoor unit 5	-			
				Indoor unit 6	-			
D	Sound power level, indoors/outdoors	F	Outside	dB(A)	66			
			E	Inside 1	dB(A)	58		
				Inside 2	dB(A)	58		
				Inside 3	dB(A)	58		
				Inside 4	dB(A)	58		
				Inside 5	dB(A)	-		
				Inside 6	dB(A)	-		
G	Refrigerant	R32 GWP 675						
H	Cooling	SEER			7.30			
		J	Energy efficiency class			A++		
		K	Annual energy consumption	kWh/annum	398			
		L	Design load	kW	8.3			
				Warmer	Average	Colder		
M	Heating	SCOP			x	4.30	x	
		J	Energy efficiency class			x	A+	x
		K	Annual electricity consumption			-	3286	-
		L	Design load			-	10.1	-
		N	Declared capacity	P	at reference design temperature	-	10.6(-10°C)	-
				R	at bivalent temperature	-	11.5(-7°C)	-
S	at operation limit			-	5.7(-25°C)	-		

				temperature			
		T	Back up heating capacity		x	-	x

Product Information (*1)

INDOOR MODEL 1/2/3	MSZ-LN18VG3 / MSZ-LN18VG3 / MSZ-LN25VG3
INDOOR MODEL 4/5/6	MSZ-LN25VG3 / - / -
OUTDOOR MODEL	MXZ-4F83VFHZ3

Function (indicate if present)	
cooling	Y
heating	Y

Item	symbol	value	unit
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Design load			
cooling	Pdesignc	8.3	kW
heating/Average	Pdesignh	10.1	kW
heating/Warmer	Pdesignh	×	kW
heating/Colder	Pdesignh	×	kW

Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	Pdc	8.3	kW
Tj=30°C	Pdc	6.2	kW
Tj=25°C	Pdc	4.8	kW
Tj=20°C	Pdc	5.5	kW

Declared capacity for heating/Average season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	Pdh	11.5	kW
Tj=2°C	Pdh	5.45	kW
Tj=7°C	Pdh	4.2	kW
Tj=12°C	Pdh	5.1	kW
Tj=bivalent temperature	Pdh	11.5	kW
Tj=operating limit	Pdh	5.7	kW

Declared capacity for heating/Warmer season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=2°C	Pdh	×	kW
Tj=7°C	Pdh	×	kW
Tj=12°C	Pdh	×	kW
Tj=bivalent temperature	Pdh	×	kW
Tj=operating limit	Pdh	×	kW

Declared capacity for heating/Colder season, at indoor temperature 20°C and outdoor temperature Tj

Tj=-7°C	Pdh	×	kW
Tj=2°C	Pdh	×	kW
Tj=7°C	Pdh	×	kW
Tj=12°C	Pdh	×	kW
Tj=bivalent temperature	Pdh	×	kW
Tj=operating limit	Pdh	×	kW
Tj=-15°C	Pdh	×	kW

Bivalent temperature

heating/Average	Tbiv	-7	°C
heating/Warmer	Tbiv	×	°C
heating/Colder	Tbiv	×	°C

Operating limit temperature

heating/Average	ToI	-25	°C
heating/Warmer	ToI	×	°C
heating/Colder	ToI	×	°C

Cycling interval capacity

for cooling	Pcycc	×	kW
for heating	Pcyh	×	kW
Degradation co-efficient cooling	Cdc	0.25	

Electric power input in power modes other than 'active mode'

off mode	POFF	13	W
standby mode	PSB	13	W
thermostat - off mode	PTO(c/h)	31 / 31	W
crankcase heater mode	PCK	0	W

Capacity control (indicate one of three options)

fixed	N
staged	N
variable	Y

If function includes heating: Indicate the heating season the information relates to. Include at least the heating season 'Average'.

Average (mandatory)	Y
Warmer (if designated)	N
Colder (if designated)	N

Item	symbol	value	unit
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Seasonal efficiency			
cooling	SEER	7.3	
heating/Average	SCOP/A	4.3	
heating/Warmer	SCOP/W	×	
heating/Colder	SCOP/C	×	

Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	EERd	4.37	
Tj=30°C	EERd	6.46	
Tj=25°C	EERd	9.36	
Tj=20°C	EERd	12.5	

Declared coefficient of performance/Average season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	COPd	2.17	
Tj=2°C	COPd	4.54	
Tj=7°C	COPd	6.18	
Tj=12°C	COPd	7.85	
Tj=bivalent temperature	COPd	2.17	
Tj=operating limit	COPd	1.46	

Declared coefficient of performance/Warmer season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=2°C	COPd	×	
Tj=7°C	COPd	×	
Tj=12°C	COPd	×	
Tj=bivalent temperature	COPd	×	
Tj=operating limit	COPd	×	

Declared coefficient of performance/Colder season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	COPd	×	
Tj=2°C	COPd	×	
Tj=7°C	COPd	×	
Tj=12°C	COPd	×	
Tj=bivalent temperature	COPd	×	
Tj=operating limit	COPd	×	
Tj=-15°C	COPd	×	

Cycling interval efficiency			
for cooling	EERcyc	×	
for heating	COPcyc	×	
Degradation co-efficient heating	Cdh	0.25	

Annual electricity consumption			
cooling	QCE	398	kWh/a
heating/Average	QHE	3286	kWh/a
heating/Warmer	QHE	×	kWh/a
heating/Colder	QHE	×	kWh/a

Other items			
Sound power level (indoor model 1/2/3/4/5/6)	LWA	58/58/58/58/-/-	dB(A)
Sound power level (outdoor model)	LWA	66	dB(A)
Global warming potential	GWP (*2)	675	kgCO ₂ eq.
Rated air flow (indoor model 1/2/3/4/5/6)		666/666/666/666/-/-	m ³ /h
Rated air flow (outdoor model)		3780	m ³ /h

Contact details for obtaining more information	<p>MITSUBISHI ELECTRIC CORPORATION SHIZUOKA WORKS 3-18-1, Oshika, Suruga-ku, Shizuoka 422-8528, Japan E-mail: melshierp@MitsubishiElectric.co.jp</p>
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(*1) This information is based on the "product information requirement" in COMMISSION REGULATION (EU) No206/2012.

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

For Regulation (EU) No. 626/2011, which cites the IPCC Third Assessment Report, Climate Change 2001, the GWP is 550.

TECHNICAL DOCUMENTATION (1)

PACKAGED AIR CONDITIONER	INDOOR MODEL 1	MSZ-LN18VG3	H307 x W890 x D233 mm
	INDOOR MODEL 2	MSZ-LN18VG3	H307 x W890 x D233 mm
	INDOOR MODEL 3	MSZ-LN25VG3	H307 x W890 x D233 mm
	INDOOR MODEL 4	MSZ-LN25VG3	H307 x W890 x D233 mm
	INDOOR MODEL 5	-	
	INDOOR MODEL 6	-	
OUTDOOR MODEL	MXZ-4F83VFHZ3	H1048 x W950 x D330 mm	

Function		
	cooling	Y
	heating	Y

The heating season		
	Average (mandatory)	Y
	Warmer (if designated)	N
	Colder (if designated)	N

Capacity control		
	fixed	N
	staged	N
	variable	Y

Item	symbol	value	unit
Seasonal efficiency (2)			
cooling	SEER	7.3	
heating/Average	SCOP/A	4.3	
heating/Warmer	SCOP/W	×	
heating/Colder	SCOP/C	×	

Energy efficiency class			
cooling	SEER	A++	
heating/Average	SCOP/A	A+	
heating/Warmer	SCOP/W	×	
heating/Colder	SCOP/C	×	

Other items			
Sound power level (indoor model 1/2/3/4/5/6)	LWA	58/58/58/58/-/-	dB(A)
Sound power level (outdoor model)	LWA	66	dB(A)
Refrigerant		R32	
Global warming potential	GWP ⁽³⁾	675	kgCO2eq.

Identification and signature of the person empowered to bind the supplier	<hr/> Kunihiro Morishita Department Manager, Quality Assurance Department MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO.,LTD
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(¹) This information is based on COMMISSION DELEGATED REGULATION (EU) No626/2011.

(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. 626/2011, which cites the IPCC Third Assessment Report, Climate Change 2001, the GWP is 550.