



# ENERG

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Model Indoor unit  
Outdoor unit

**MSZ-HR60VF**  
**MUZ-HR60VF**

SEER



A<sup>+++</sup>

A<sup>++</sup>

A<sup>+</sup>

A

B

C

D

A<sup>++</sup>

kW **6,1**

SEER **7,2**

kWh/annum **296**

SCOP



A<sup>+++</sup>

A<sup>++</sup>

A<sup>+</sup>

A

B

C

D

A<sup>+++</sup>

A<sup>+</sup>

kW **2,5**

SCOP **5,4**

kWh/annum **640**

**4,6**

**4,5**

**1430**

X

X

X



**65dB**



**65dB**



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A Model	B Indoor unit		MSZ-HR60VF	MSZ-HR71VF	
	C Outdoor unit		MUZ-HR60VF	MUZ-HR71VF	
D Sound power levels on cooling mode	E Inside	dB	65	65	
	F Outside	dB	65	66	
G Refrigerant R32 GWP 675 *1					
H Cooling	SEER		7,2	7,0	
	Energy efficiency class		A++	A++	
	Annual electricity consumption *2 kWh/a		296	355	
	Design load kw		6,1	7,1	
M Heating (Average / Warmer / season)	SCOP		4,5 / 5,4	4,3 / 5,2	
	Energy efficiency class		A+ / A+++	A+ / A+++	
	Annual electricity consumption *2 kWh/a		1430 / 640	1755 / 802	
	Design load kw		4,6 / 2,5	5,4 / 3,0	
	N De-cleared capacity	P at reference design temperature	kw	4,6(-10°C) / 2,5( 2°C)	5,4(-10°C) / 3,0( 2°C)
		Q at bivalent temperature	kw	4,6(-10°C) / 2,5( 2°C)	5,4(-10°C) / 3,0( 2°C)
		R at operation limit temperature	kw	4,6(-10°C) / 4,6(-10°C)	5,4(-10°C) / 5,4(-10°C)
O Back up heating capacity		kw	0,0(-10°C) / 0,0( 2°C)	0,0(-10°C) / 0,0( 2°C)	

	Deutsch	Italiano	Svenska	Polski	Eesti	Malti	Русский
A	Modell	Modello	Modell	Model	Mudel	Mudell	Модель
B	Innengerät	Unità interna	Inomhusenhet	Jednostka wewnętrzna	Siseseade	Unità għal ġewwa	Внутренний прибор
C	Außengerät	Unità esterna	Utomhusenhet	Jednostka zewnętrzna	Välisseade	Unità għal barra	Наружный прибор
D	Schalleistungspegel im Kühlmodus	Livelli di potenza sonora in modalità di raffreddamento	Bullernivå i nedkylningsläget	Poziom mocy dźwięku w trybie chłodzenia	Müratasemed jahutusrežiimis	Livelli tal-qawwa tal-hsejjes fil-modalità tat-tkessih	Значения уровня звуковой мощности в режиме охлаждения
E	Innen	Interno	Insida	Wewnętrzny	Sees	Ġewwa	Внутри
F	Außen	Esterno	Utsida	Na zewnątrz	Väljas	Barra	Снаружи
G	Kühlmittel	Refrigerante	Köldmedel	Czynnik chłodniczy	Külmutusagens	Refrigerant	Хладагент

	Deutsch	Italiano	Svenska	Polski	Eesti	Malti	Русский
H	Kühlen	Raffreddamento	Kyla	Chłodzenie	Jahutus	Tkessih	Охлаждение
J	Energieeffizienzklasse	Classe di efficienza energetica	Energiklass	Klasa energetyczna	Energiatõhususe klass	Klassi tal-effiċjenza fl-użu tal-enerġija	Класс эффективности использования энергии
K	Jahresstromverbrauch *2	Consumo annuale di energia elettrica *2	Årlig strömförbrukning *2	Zużycie prądu w skali roku *2	Aastane voolutarbimus *2	Konsum annwali tal-elettriku *2	Годовое потребление электроэнергии *2
L	Lastauslegung	Carico nominale	Dimensionerande belastning	Maksymalne obciążenie	Projekteeritud koormus	Tagħbiya tad-disinn	Расчетная нагрузка
M	Chauffage (moyenne saison / saison chaude)	Θέρμανση (Εποχή με μέσες / υψηλότερες θερμοκρασίες)	Topeni (průměrná/teplá sezóna)	Ogrevanje (Povprečni/toplejši letni čas)	Tõutamine (Keskmise/soojaperiood)	Tishin (Staġun Medju / Aktar Shun)	Нагрев (средний/теплый сезон)
N	Capacité déclarée	Δηλωμένη χωρητικότητα	Udåvnad kapacita	Prijava zmogljivost	Toileaduhõigustus	Ilmoitettu teho	Erklært kapasitet
O	bei angegebener Referenztemperatur	alla temperatura di progetto di riferimento	vid dimensionerande referenstemperatur	w znamionowej temperaturze odniesienia	projekteerimise võrdlustemperatuur	f'temperatura tad-disinn ta' referenza	при эталонной расчетной температуре
P	à la température de calcul de référence	σε θερμοκρασία σχεδιασμού αναφοράς	při referenční výpočtové teplotě	ob referenční nazivní temperaturi	ag teocht deartha tagartha	perusmitoitustämpötilassa	ved referansetemperatur for utforming
Q	bij referentieontwerptemperatuur	à temperatura nominal de referencia	pri referenčnej výpočtovej teplote	pri izračunljivi projektni temperaturi	aprëqina references temperaturë	referans tasarim sicaqliginda	При эталонной расчетной температуре
R	à température bivalente	alla temperatura bivalente	vid bivalent temperatur	w temperaturze bivalentnej	bivalentse temperatuur	f'temperatura bivalenti	при бивалентной температуре
S	bei Temperatur an der Betriebsgrenze	alla temperatura limite di funzionamento	vid driftstemperatrens gränsvärde	w granicznej temperaturze roboczej	tõötamise piirtemperatuur	f'temperatura tal-limitu tat-tħaddim	при предельной рабочей температуре
T	Backup-Heizleistung	Capacità di riscaldamento addizionale	Kapacitet för reservvärme	Zapasaowa pojemność grzewcza	Tagavara küttevoimsus	Kapaċità tat-tishin ta' sostenn	Резервная тепловая мощность



**PRODUCT INFORMATION (\*1)**

ROOM AIR CONDITIONER	INDOOR MODEL	MSZ-HR60VF / MSZ-HR60VFK
	OUTDOOR MODEL	MUZ-HR60VF

Function (indicate if present)	
cooling	Y
heating	Y

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

Item	symbol	value	unit
<b>Design load</b>			
cooling	Pdesignc	6.1	kW
heating/Average	Pdesignh	4.6	kW
heating/Warmer	Pdesignh	2.5	kW
heating/Colder	Pdesignh	x	kW

Item	symbol	value	unit
<b>Seasonal efficiency</b>			
cooling	SEER	7.2	-
heating/Average	SCOP/A	4.5	-
heating/Warmer	SCOP/W	5.4	-
heating/Colder	SCOP/C	x	-

<b>Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj</b>			
Tj=35°C	Pdc	6.1	kW
Tj=30°C	Pdc	4.5	kW
Tj=25°C	Pdc	2.9	kW
Tj=20°C	Pdc	1.6	kW

<b>Declared energy efficiency ratio, at indoor temperature 27(19) °C and outdoor temperature Tj</b>			
Tj=35°C	EERd	3.4	-
Tj=30°C	EERd	5.6	-
Tj=25°C	EERd	9.4	-
Tj=20°C	EERd	11.7	-

<b>Declared capacity for heating/Average season, at indoor temperature 20°C and outdoor temperature Tj</b>			
Tj=-7°C	Pdh	4.1	kW
Tj=2°C	Pdh	2.5	kW
Tj=7°C	Pdh	1.7	kW
Tj=12°C	Pdh	1.3	kW
Tj=bivalent temperature	Pdh	4.6	kW
Tj=operating limit	Pdh	4.6	kW

<b>Declared coefficient of performance/Average season, at indoor temperature 20°C and outdoor temperature Tj</b>			
Tj=-7°C	COPd	3.1	-
Tj=2°C	COPd	4.4	-
Tj=7°C	COPd	5.8	-
Tj=12°C	COPd	6.3	-
Tj=bivalent temperature	COPd	2.7	-
Tj=operating limit	COPd	2.7	-

<b>Declared capacity for heating/Warmer season, at indoor temperature 20°C and outdoor temperature Tj</b>			
Tj=2°C	Pdh	2.5	kW
Tj=7°C	Pdh	1.7	kW
Tj=12°C	Pdh	1.3	kW
Tj=bivalent temperature	Pdh	2.5	kW
Tj=operating limit	Pdh	4.6	kW

<b>Declared coefficient of performance/Warmer season, at indoor temperature 20°C and outdoor temperature Tj</b>			
Tj=2°C	COPd	4.4	-
Tj=7°C	COPd	5.8	-
Tj=12°C	COPd	6.3	-
Tj=bivalent temperature	COPd	4.4	-
Tj=operating limit	COPd	2.7	-

<b>Declared capacity for heating/Colder season, at indoor temperature 20°C and outdoor temperature Tj</b>			
Tj=-7°C	Pdh	x	kW
Tj=2°C	Pdh	x	kW
Tj=7°C	Pdh	x	kW
Tj=12°C	Pdh	x	kW
Tj=bivalent temperature	Pdh	x	kW
Tj=operating limit	Pdh	x	kW
Tj=-15°C	Pdh	x	kW

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

<b>Bivalent temperature</b>			
heating/Average	Tbiv	-10	°C
heating/Warmer	Tbiv	2	°C
heating/Colder	Tbiv	x	°C

<b>Operating limit temperature</b>			
heating/Average	Tol	-10	°C
heating/Warmer	Tol	-10	°C
heating/Colder	Tol	x	°C

<b>Cycling interval capacity</b>			
for cooling	Pcycc	x	kW
for heating	Pcyh	x	kW
Degradation co-efficient cooling	Cdc	0.25	-

<b>Cycling interval efficiency</b>			
for cooling	EERcyc	x	-
for heating	COPcyc	x	-
Degradation co-efficient heating	Cdh	0.25	-

<b>Electric power input in power modes other than 'active mode'</b>			
off mode	P <sub>OFF</sub>	6	W
standby mode	P <sub>SB</sub>	6	W
thermostat - off mode	P <sub>TO</sub>	12	W
crankcase heater mode	P <sub>CK</sub>	0	W

<b>Annual electricity consumption</b>			
cooling	Q <sub>CE</sub>	296	kWh/a
heating/Average	Q <sub>HE</sub>	1430	kWh/a
heating/Warmer	Q <sub>HE</sub>	640	kWh/a
heating/Colder	Q <sub>HE</sub>	x	kWh/a

<b>Capacity control (indicate one of three options)</b>	
fixed	N
staged	N
variable	Y

<b>Other items</b>			
Sound power level (indoor/outdoor)	L <sub>WA</sub>	65/65	dB(A)
Global warming potential	GWP (*2)	675	kgCO <sub>2</sub> eq.
Rated air flow (indoor/outdoor)	-	1176/2568	m <sup>3</sup> /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
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(\*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-HR60VF / MSZ-HR60VFK	305H*923W*262D (mm)
	OUTDOOR MODEL	MUZ-HR60VF	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
<b>Seasonal efficiency (2)</b>			
cooling	SEER	7.2	-
heating/Average	SCOP/A	4.5	-
heating/Warmer	SCOP/W	5.4	-
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 <sub>WA</sub>	65/65	dB(A)
Refrigerant	-	R32	-
Global warming potential	GWP (3)	675	kgCO <sub>2</sub> 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.