

SPECIFICATIONS

Model	Set name		—		MSZ-EF25VG(H)		MSZ-EF35VG(H)		MSZ-EF42VG		MSZ-EF50VG	
	Indoor		MSZ-EF18VG(K)(W/B/S) MSZ-EF22VG(K)(W/B/S)		MSZ-EF25VG(K)(W/B/S)		MSZ-EF35VG(K)(W/B/S)		MSZ-EF42VG(K)(W/B/S)		MSZ-EF50VG(K)(W/B/S)	
	Outdoor		—		MUZ-EF25VG(H)		MUZ-EF35VG(H)		MUZ-EF42VG		MUZ-EF50VG	
Function			Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Power supply			~ /N, 230 V, 50 Hz									
Capacity		kW	—	—	2.5	3.2	3.5	4.0	4.2	5.4	5.0	5.8
Input		kW	—	—	0.54	0.700	0.910	0.950	1.200	1.455	1.540	1.560
Weight	Indoor	kg	11.5									
	Outdoor	kg	—	—	31	—	34	—	35	—	40	—
Refrigerant filling capacity (R32)		kg	—	—	0.62	—	0.74	—	0.74	—	1.05	—
IP code	Indoor		IP 20									
	Outdoor		IP 24									
Permissible excessive operating pressure	LP ps	MPa	2.77									
	HP ps	MPa	4.17									
Noise level (SPL)	Indoor (Super High/ High/Med./ Low/Silent)	dB(A)	42/36/29/ 23/19	45/37/29/ 24/21	42/36/29/ 23/19	45/37/29/ 24/21	42/36/30/ 24/21	46/38/30/ 24/21	43/39/35/ 31/28	48/41/35/ 30/28	43/40/36/ 33/30	49/43/37/ 33/30
	Outdoor	dB(A)	—	—	47	48	49	50	50	51	52	52

EN

Indoor specification for multi connection REGULATION (EU) 2016/2281

Model	Indoor			MSZ-EF18VG(K) (W/B/S)	MSZ-EF22VG(K) (W/B/S)	MSZ-EF25VG(K) (W/B/S)	MSZ-EF35VG(K) (W/B/S)	MSZ-EF42VG(K) (W/B/S)	MSZ-EF50VG(K) (W/B/S)	
Capacity	Cooling	Sensible	kW	1.72	2.04	2.30	2.80	3.02	3.55	
		Latent	kW	0.08	0.16	0.20	0.70	1.18	1.45	
	Heating	kW	2.10	2.50	2.90	4.00	4.80	5.70		
Input			kW	0.027	0.027	0.027	0.031	0.031	0.034	
Noise level (Sound power level)	Super High/High/Med./ Low/Silent			dB(A)	60/54/47/41/39	60/54/47/41/39	60/54/47/41/39	60/54/47/42/39	60/57/53/49/46	60/57/53/50/47

Guaranteed operating range

	Indoor	Outdoor	
		MUZ-EF25/35/42/50VG	MUZ-EF25/35VGH
Cooling	Upper limit	32°C DB 23°C WB	46°C DB —
	Lower limit	21°C DB 15°C WB	-10°C DB —
Heating	Upper limit	27°C DB —	24°C DB 18°C WB
	Lower limit	20°C DB —	-15°C DB -16°C WB

DB: Dry Bulb
WB: Wet Bulb

Note:

- Rating condition
Cooling — Indoor: 27°C DB, 19°C WB
Outdoor: 35°C DB
Heating — Indoor: 20°C DB
Outdoor: 7°C DB, 6°C WB
- EF18/22 have no specifications for single combination. These indoor models are only for multi system air conditioner. As for the specifications of multi system, please confirm your dealer and/or refer to the catalogue.

Wi-Fi® interface

Model	MAC-577IF2-E
Input Voltage	DC12.7 V (from indoor unit)
Power consumption	MAX. 2 W
Size H×W×D (mm)	73.5×41.5×18.5
Weight (g)	46 (including cable)
Transmitter power level (MAX.)	20 dBm @IEEE 802.11b
RF channel	1ch ~ 13ch (2412~2472 MHz)
Radio protocol	IEEE 802.11b/g/n (20)
Encryption	AES
Authentication	WPA2-PSK
Software Version	XX.00

For Declaration of Conformity, please go to the website below.
<http://www.mitsubishielectric.com/ldg/ibim/>

WHEN YOU THINK THAT TROUBLE HAS OCCURRED

In the following cases, stop using the air conditioner and consult your dealer.

- When water leaks or drips from the indoor unit.
- When the operation indicator lamp blinks.
- When the breaker trips frequently.
- The remote control signal is not received in a room where an electronic ON/OFF type fluorescent lamp (inverter-type fluorescent lamp, etc.) is used.
- Operation of the air conditioner interferes with radio or TV reception. An amplifier may be required for the affected device.
- When an abnormal sound is heard.
- When any refrigerant leakage is found.

CAUTION (Could lead to serious injury in particular environments when operated incorrectly.)

- **Install an earth leakage breaker depending on the installation place.**
If an earth leakage breaker is not installed, it could cause electric shock.
- **Perform the drainage/piping work securely according to the installation manual.**
If there is defect in the drainage/piping work, water could drop from the unit, soaking and damaging household goods.
- **Do not touch the air inlet or the aluminum fins of the outdoor unit.**
This could cause injury.
- **Do not install the outdoor unit where small animals may live.**
If small animals enter and touch the electric parts inside the unit, it could cause a malfunction, smoke emission, or fire. Also, advise user to keep the area around the unit clean.
- **Do not operate the air conditioner during interior construction and finishing work, or while waxing the floor.**
Before operating the air conditioner, ventilate the room well after such work is performed. Otherwise, it may cause volatile elements to adhere inside the air conditioner, resulting in water leakage or scattering of dew.
- **When there are the ports which are not used, make sure their nuts are tightened securely.**
- **When charging the refrigerant system with additional refrigerant, be sure to use liquid refrigerant. Charge the liquid refrigerant slowly, otherwise the compressor will be locked.**
To maintain the high pressure of the gas cylinder, warm the gas cylinder with warm water (under 40°C) during cold season. But never use naked fire or steam.

1-2. SPECIFICATIONS

Model	Power supply *1			Wire specifications *2		Pipe length and height difference *3, *4, *5, *6, *7, *8, *9			Outdoor Noise level	
	Rated Voltage	Frequency	Breaker capacity	Power supply	Indoor/outdoor connecting wire	Max. pipe length per indoor unit / for multi-system	Max. height difference	Max. no. of bends per indoor unit / for multi system	Cooling	Heating
MXZ-6F120VF2	220-230-240 V	50 Hz	32 A	3-core 4.0 mm ²	4-core 1.0 / 1.5 mm ²	25 m / 80 m	15 m	25 / 80	55 dB (A)	57 dB (A)

Model	Maximum amount of refrigerant charge	Factory-charged refrigerant amount	Connectable number of indoor units
MXZ-6F120VF2	2.4 kg	2.4 kg	1 ~ 6 *10

- *1 Connect to the power switch which has a gap of 3 mm or more when open to interrupt the source power phase. (When the power switch is shut off, it must interrupt all phases.)
- *2 Use wires in conformity with design 60245 IEC 57. Use the indoor/outdoor connecting wire in conformity with the wire specifications specified in the installation manual of the indoor unit.
- *3 Never use pipes with thickness less than specified. The pressure resistance will be insufficient.
- *4 Use a copper pipe or a copper-alloy seamless pipe.
- *5 Be careful not to crush or bend the pipe during pipe bending.
- *6 Refrigerant pipe bending radius must be 100 mm or more.
- *7 Insulation material : Heat resisting foam plastic 0.045 specific gravity
- *8 Be sure to use the insulation of specified thickness. Excessive thickness may cause incorrect installation of the indoor unit and insufficient thickness may cause dew dripage.
- *9 The piping specification table does not provide a minimum line set length. However, indoor units with connected piping length less than 3 m could produce intermittent noise during normal system operation in very quiet environments. Please be aware of this important information when installing and locating the indoor unit within the conditioned space.
- *10 At least 2 indoor units must be connected when using indoor unit with capacity lower than 25 class.

1-3. SELECTING OPTIONAL DIFFERENT-DIAMETER JOINTS

If the diameter of connection pipe does not match the port size of outdoor unit, use optional different-diameter joints according to the following table.

(Unit: mm (inch))

Port size of outdoor unit		Optional different-diameter joints (port size of outdoor unit → diameter of connection pipe)
MXZ-6F	Liquid / Gas	6.35 (1/4) → 9.52 (3/8) : PAC-493PI 9.52 (3/8) → 12.7 (1/2) : MAC-A454JP-E 9.52 (3/8) → 15.88 (5/8) : PAC-SG76RJ-E 12.7 (1/2) → 9.52 (3/8) : MAC-A455JP-E 12.7 (1/2) → 15.88 (5/8) : MAC-A456JP-E
A UNIT	6.35 (1/4) / 12.7 (1/2)	Refer to the installation manual of indoor unit for the diameter of connection pipe of indoor unit.
B - F UNIT	6.35 (1/4) / 9.52 (3/8)	

1-4. SELECTING THE INSTALLATION LOCATION

- Where it is not exposed to strong wind.
- Where airflow is good and dustless.
- Where rain or direct sunshine can be avoided as much as possible.
- Where neighbours are not annoyed by operation sound or hot air.
- Where rigid wall or support is available to prevent the increase of operation sound or vibration.
- Where there is no risk of combustible gas leakage.
- When installing the unit, be sure to secure the unit legs.
- Where it is at least 3 m away from the antenna of TV set or radio. Operation of the air conditioner may interfere with radio or TV reception in areas where reception is weak. An amplifier may be required for the affected device.
- Install the unit horizontally.
- Please install it in an area not affected by snowfall or blowing snow. In areas with heavy snow, please install a canopy, a pedestal and/or some baffle boards.

Note:
It is advisable to make a piping loop near outdoor unit so as to reduce vibration transmitted from there.

Note:
When operating the air conditioner in low outside temperature, be sure to follow the instructions described below.

- Never install the outdoor unit in a place where its air inlet/outlet side may be exposed directly to wind.
- To prevent exposure to wind, install the outdoor unit with its air inlet side facing the wall.
- To prevent exposure to wind, it is recommended to install a baffle board on the air outlet side of the outdoor unit.

Avoid the following places for installation where air conditioner trouble is liable to occur.

- Where flammable gas could leak.
- Where there is much machine oil.
- Where oil is splashed or where the area is filled with oily smoke (such as cooking areas and factories, in which the properties of plastic could be changed and damaged).
- Salty places such as the seaside.
- Where sulfide gas is generated such as a hot spring.
- Where there is high-frequency or wireless equipment.
- Where there is emission of high levels of VOCs, including phthalate compounds, formaldehyde, etc., which may cause chemical cracking.
- The appliance shall be stored so as to prevent mechanical damage from occurring.

FREE SPACE

- 1. Obstacles above**
When there is no space above the unit as shown in the figure is prohibited.

- 3. Obstacles in front**
When there is an obstacle in front of the unit as shown in the figure is prohibited.

- 5. Obstacles in front**
- When installing on a verandah, be sure to leave a gap between the unit and the verandah. In this case, the verandah may deteriorate.
 - When there is an obstacle in front of the unit, install a baffle board.
 - When installing multiple units, leave a gap between each other.



- R32 is heavier than R410A. If a flammable concentration leak is confirmed, appropriate ventilation is required.
- Refrigerant pipes should be insulated.
- Install outdoor units in a well-ventilated area.

