MITSUBISHI ELECTRIC

Air Conditioning Systems

Split Systems

Why Choose Mitsubishi Electric?

As a leading company in the industry, Mitsubishi Electric has a proud history in the manufacturing and supply of leading edge electrical and electronic equipment for both domestic and commercial use. Our efforts to make indoor life more comfortable began in 1921, with the introduction of our first electric fan which became an instant hit. Some 10 years later we began to manufacture coolers, which were just as popular. Our commitment to quality service, research and development has helped us gain a leading position in today's marketplace in a wide variety of areas including heating, cooling and air conditioning. Mitsubishi Electric's 'today technology' provides climate controlled comfort wherever you live, work and relax. Whether it's consistent heating and cooling for the home or office, Mitsubishi Electric offers you state-of-the-art technology that is quiet, simple to use, reliable and above all, energy efficient.

New Technology

Mitsubishi Electric inverter technologies ensure superior performance including the optimum control of operation frequency. Optimum power is applied in all heading/ cooling ranges and maximum comfort is achieved while consuming minimal energy.

Quiet Operation

We recognise that noise affects comfort, so we constantly work to make our air conditioners as quiet as possible. With improvements to our fan blades combined with a new grille shape to our outdoor unit it's even quieter when in low noise mode. We want you to feel the warmth, not hear it.
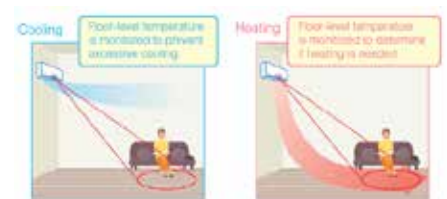
Flexible Choice

Mitsubishi Electric Air conditioners from wall-mounted, floor standing, ceiling-concealed, ceiling-cassette to ceiling suspended units are suitable for any needs.

Ultimate Comfort & Modern Design

Clean and attractive air conditioners in a variety of designs to suit diversified needs. With stylish lines for the living room and quiet operation for the bedroom. Our air conditioners provide advanced air control which is smart and sophisticated.

Energy Efficiency

Mitsubishi Electric strive for the perfect balance of performance, reliability, low power consumption and a long operational life span for all our products. With the "3D i-See Sensor" sweeps from side-to-side automatically monitoring the floor temperature over a wide area spanning 150°. The airflow speed and temperature are adjusted to prevent over-heating/cooling, thereby eliminating the consumption of excessive electricity. (FH Model only)

Product Line-Up

MSZ-FH Series

2.5kW	3.5kW	5.0kW
√	√	√

- » Double Vane
- » 24 Hour Timer
- » Natural Flow
- » Quiet Operation
- » Plasma Filter
- » 3D i-See Sensor
- » Anti-Mould Filter
- » Quick Clean
- » Weekly Timer
- » Auto Change Over
- » Wi-Fi Connectable*
- » Heating & Cooling

MSZ-EF Series

2.5kW	3.5kW	4.2kW	5.0kW
√	√	√	√

- » 24-hour Timer
- » Auto Change Over
- » 3 Colours available white, silver & black
- » Nano Platinum Filter
- » Weekly Timer
- » Wi-Fi Connectable*
- » Auto Vane
- » Beveled Flat Panel
- » Heating & Cooling
- » Auto Restart

MSZ-GE Series

2.5kW	3.5kW	4.2kW	4.8kW	6.0kW	7.1kW	7.8kW
√	√	√	√	√	√	√

- » Potentially Demand Response Capable ≠ (2.5kW–7.8kW)
- » Heating & Cooling
- » Quiet Operation
- » Quick Clean
- » Nano Platinum Filter (60/71/80)
- » Catechin Filter
- » Wi-Fi Connectable*
- » Electrostatic Anti-allergy Enzyme Filter (60/71/80)
- » Weekly Timer (60/71/80)
- » 24-hour Timer
- » Auto Change Over
- » Wide & Long Airflow (60/71/80)
- » Powerful Mode (60/71/80)

≠ DRC-101A Interface required

* Additional adapter MAC-558IF-E required

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FH Series

The new FH series is the culmination of our air-cleaning, 3D i-See sensor and airflow technologies, and represent our efforts to create an air conditioner that put No.1 Priority on healthy living.
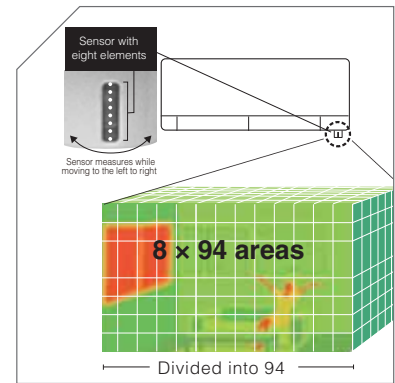

Plasma Filter

The Plasma Filter System is an advanced, multi-stage filtration system designed to effectively neutralise contaminants such as allergens, viruses and bacteria ensuring the circulation of fresh, clean air back into the room.

Quiet Operation

We recognise that noise affects comfort, so we constantly work to make our air conditioners as quiet as possible. With improvements to our fan blades combined with a new grille shape to our outdoor unit it's even quieter when in low noise mode. We want you to feel the warmth, not hear it.

3D i-See Sensor

The FH Series is equipped with 3D i-see Sensor, an infraredray sensor that measures the temperature at distant positions. While moving to the left and right, eight vertically arranged sensor elements analyze the room temperature in three dimensions.

Features

Wi-Fi CONTROL Wi-Fi Connectable
additional adapter MAC-558IF-E required.

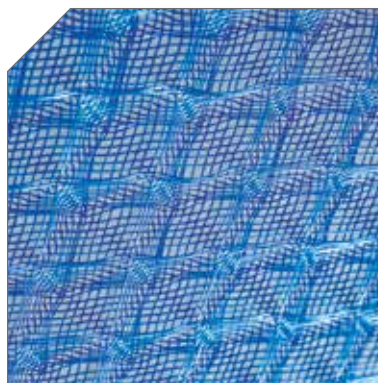|			
» Absence Detection	» Anti-Mould Filter	» Auto Restart	» Quick Clean
» Econo Cool	» Pure White	» Operating Temperature	» Vertical & Horizontal Swing
» Only 20dB (FH 25/35 cool)	» Compact	Cooling at 10°C ~ -46°C	» Auto Change Over
» Auto Vane	» 24-Hour Timer	Heating at -15°C ~ 24°C	» Weekly Timer

EF Series

The Streamlined wall-mounted indoor units have eloquent beveled edges, expressing sophistication and quality. Available in 3 stylish colours classic white, matte silver and glossy black to provide the best match scenario for diverse interior designs while simultaneously ensuring maximum room comfort and energy savings.

Stylish Design
Developed to complement modern interior room decor, MSZ-EF Series is available in three colours glossy black, matte silver and classic white. Specially chosen to blend in naturally wherever installed.

Platinum Filter
The Nano Platinum Deodorising Filter reduces airborne bacteria while improving air quality. The optional Electro Static Anti-Allergy Enzyme Filter effectively combats common allergens.

Energy Efficient
Impressively low power consumption and quiet yet powerful performance. Ensuring maximum room and energy savings.thereby eliminating the consumption of excessive electricity.

Features

Wi-Fi CONTROL Wi-Fi Connectable additional adapter MAC-558IF-E required.

- » Econo Cool
- » Nano Platinum
- » Electrostatic Anti-Allergy

- » Auto Vane
- » Horizontal Swing
- » Weekly Timer

- » Auto Restart
- » Operating Temperature
  Cooling at 10°C ~ -46°C
  Heating at -15°C ~ 24°C

- » Self Diagnosis
- » 24-Hour Timer
- » Auto Change Over

GE Series

The MSZ-GE units provide excellent energy-savings and operation is impressively quiet. A vast series line-up is ready to ensure comfortable room environments in response to your air conditioning needs.
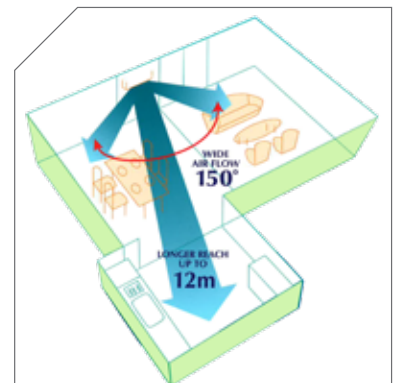

Stylish and Compact

An elegant, high quality look is achieved through the stylish design adopted for indoor units. The simple, pure white colour express a sense of sophistication that matches well with virtually any interior décor.

i-Save mode

"i-Save" is a simplified setting function that recalls the preferred (preset) temperature by pressing a single button on the remote controller. Press the same button twice to immediately return to the previous temperature setting. Using this function contributes to energy savings when, for example, leaving the room or going to bed.

Wide and Long Airflow

The wide and long airflow modes allow the airflow direction to be adjusted, ensuring every corner of the room is comfortable. These modes are simply activated at the touch of a button on your remote controller. The long mode extends airflow by 12m to reach even the furthest point of large living rooms or enables kitchens to be reached in an open plan environment. MSZ-GE60/71/80.

Features

Wi-Fi CONTROL Wi-Fi Connectable additional adapter MAC-558IF-E required.

- » Potentially Demand Response Capable
- » Econo Cool
- » Nano Platinum Filter
- » Electrostatic Anti-Allergy Filter

- » Auto Vane
- » Vertical Swing
- » Horizontal Swing
- » Wide, Long & Powerful
- » Pure White

- » Auto Change Over
- » Auto Restart
- » Only 19dB (models 22/25/35)
- » 24 Hour Timer
- » Weekly Timer 60/70/80

- » Self Diagnosis
- » Operating Temperature Cooling at 10°C ~ -46°C Heating at -15°C ~ 24°C

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Controls

HAND HELD CONTROLLERS & WALL MOUNTED CONTROLLERS

Making the most of your air conditioner all starts with the controls, these allow you to create the comfort levels that match your demands. As air conditioners are becoming more advanced, so are the controls, to allow accuracy and ease of use to maximise the functionality of your air conditioner. The availability of hand-held remotes, wired wall controllers and internet connectable controllers, not only provide you with a wide variety of choice, but also allow optimised programming efficiency.

24 HR Controller

This simple to use remote features a 24 hour timer, an easy to read display and variety of operating modes at the touch of a button. An On/Off timer allows users to set operating times on a daily basis. The 'i Save' mode recalls the present temperature. This remote is standard for the GE25/35/42/50 series.

Weekly Remote Controller

With an easy to read display and a variety of operating modes at the touch of a button. This controller features a weekly and 24hr timer, On/Off timer to set operating times on a daily basis. The 'i Save' mode recalls the preset temperature. This remote is standard for the GE60/71/80 Series, EF series and FH series.

PAR31-MAA 7 Day Controller

Perfect for anyone with a busy lifestyle the 7 day controller can program up to 8 settings for each day of the week. Easy to set desired temperatures and regulate energy usage without compromising comfort.

Additional adapter MAC-333IF required.

Wi-Fi Control unlocks the door to smarter heating or cooling, for total home comfort wherever you are. This innovative technology connects your domestic high wall, floor mounted and ducted air conditioner to your smartphone, tablet or online account, giving you the freedom to fully control each unit on-the-go via an internet connection from anywhere in the world.

Additional upgrade adapter MAC-558IF-E required

Develop Operating Rules

Tailor your system to always meet your needs. Unlock the full potential of your air-conditioner, program your system to automatically turn on/off at specific times, change settings, and develop temperature rules to ensure superior comfort day after day.

Control Multiple Units

Customise the settings of each air-conditioner in your home. Purchase multiple adaptors to manage all air-conditioners independently on the same account to ensure complete control over your system. The result is a tailored system to your needs.

Wi-Fi Features

» View & control from anywhere in the world
» Enhance energy savings
» Set up 7 day weekly schedule
» Wireless connection using WPS

FUNCTIONS

Energy Saving

3D i-See Sensor

The " 3Di-see Sensor" monitors the whole room in sections and directs the airflow to areas of the room where the temperature does not match the temperature setting. (When cooling the room, if the middle of the room is detected to be hotter, more airflow is directed towards it.) This eliminates unnecessary heating /cooling and contributes to lower electricity costs.

DC Inverter

Inverter technology matches compressor speed to your indoor heating or cooling requirements. PAM (Pulse Amplitude Modulation) provides higher efficiency within the inverter by controlling the amount of power drawn.

Econo Cool Energy-saving Feature

"Econo Cool" is an intelligent temperature control feature that adjusts the amount of air directed towards the body based on the air-outlet temperature. The setting temperature can be raised by as much as 2 degrees without any loss in comfort, thereby realising a 20% gain in energy efficiency. (Function only available during manual cooling operation.)

"I Feel" Control

The "I Feel" fuzzy-logic control memorises the most desirable temperature setting. If the "TOO WARM" or "TOO COOL" button on the remote controller is pressed, the system adds the choice to the control memory and adjusts the temperature so that the most comfortable temperature is provided. That temperature setting is used the next time the unit is turned on.

PAM (Pulse Amplitude Modulation)

PAM is a technology that controls the current waveform so that it resembles the supply voltage wave, thereby reducing loss and realising more efficient use of electricity. Using PAM control, 98% of the input power supply is used effectively.

Comfort

Auto Vane

The vane closes automatically when the air conditioner is not running, concealing the air outlet and creating a flat surface that is aesthetically appealing.

Only 19dB (Quiet Operation) GE 25/35

Swing (Vertical Vane)

The air outlet vane swings from side to side so that the airflow reaches every part of the room.

Swing (Horizontal Vane)

The air outlet vane swings up and down so that the airflow is spread evenly throughout the room.

Wide and Long Airflow

The wide and long airflow function is especially beneficial for large spaces, helping to ensure that air is well circulated and reaches every corner of the room.

Wide Airflow

This unique airflow system distributes air horizontally over a wide-ranging 150° in heating mode and 100° in cooling mode. Simply press the Wide Swing icon on the remote controller to select the desired airflow from seven different patterns.

Long Airflow

Use this function to ensure that the airflow circulates to areas far across the room. Press the Long Airflow icon on the remote controller to extend reach up to as far as 12 metres from the unit.

Air Quality

Air Cleaning Filter

The filter is charged with static electricity, enabling it to attract and capture dust particulates that regular filter don't.

Anti-Allergy Enzyme filter

The anti-allergy enzyme filter works to trap allergens such as molds and bacteria and decompose them using enzymes retained in the filter.

Catechin Filter

Catechin is a bioflavonoid by-product of green tea with both antiviral and antioxidant qualities. It also has an excellent deodorising effect, which is why Mitsubishi Electric uses the compound in its air conditioner filters. In addition to improving air quality, it prevents the spreading of bacteria and viruses throughout the room. Easily removed for cleaning and maintenance, when the filter is washed regularly the deodorising action is rated to last more than 10 years.

Electrostatic Anti-allergy Enzyme Filter

This function utilises both the air cleaning filter and anti-allergy enzyme filter.

Fresh-Air Intake

Indoor air quality is enhanced by the direct intake of fresh exterior air.

Nano Platinum Filter

The filter has a large capture area and incorporates nanometre-sized platinum-ceramic particles that work to kill bacteria and deodorise the circulating air. Better dust collection than conventional filters is also ensured.

Plasma*Duo* Filter Systems

Units are equipped with a pre-filter and two special filters that perform plasma air cl eaning and plasma purification functions (Plasma Duo). The plasma system removes bad odors and bacterial particulates of micron- and nanometre-size from the air.

Convenience

Ampere Limit Adjustment

Dipswitch settings can be used to adjust the maximum electrical current for operation. This function is highly recommended for managing energy costs. *Maximum capacity is lowered with the use of this function.

Auto Changeover

The air conditioner automatically switches between heating and cooling modes to maintain the desired temperature.

Auto Restart

Especially useful at the time of power outages, the unit turns back on automatically when power is restored.

Auto Fan Speed Mode

The airflow speed mode adjusts the fan speed of the indoor unit automatically according to the present room conditions.

"i save" Mode Connection to the MXZ multi-split outdoor unit is possible.

PAR-31MAA Control

Units are compatible for use with the PAR-31MAA remote controller, which has a variety of management functions including a weekly timer.

System Group Control

The same remote controller is capable of controlling the operational status of up to 16 refrigerant systems.

Wi-Fi Interface

Interface enabling users to control air conditioners and check operating status via devices such as personal computers, tablets and smartphones

Installation & Maintenance

Cleaning-Free Pipe Reuse

The application of pipe reuse technology such as Mitsubishi Electric's original hard alkyl benzene oil makes it possible to reuse the same piping, thereby allowing cleaning-free renewal of air conditioning systems that use R22 refrigerant.

Easy Installation with an Installation Plate

Failure Recall Function

Operation failures are recorded, allowing confirmation when needed.

Flare Connection

Flare connection to cooling pipe work is possible.

Quick Clean

The cover panel can be quickly removed for washing and the airflow vents can be opened without any special tools, making it easy to clean the inside of the air conditioner in minutes. Periodic cleaning of the air conditioner is recommended to maintain optimum operating efficiency and energy savings.

Quick Clean Body

The cover panel can be quickly removed for washing and the airflow vents can be opened without any special tools, making it easy to clean the inside of the air conditioner in minutes. Periodic cleaning of the air conditioner is recommended to maintain optimum operating efficiency and energy savings.

Self-Diagnostic Function (Check Code Display)

Check codes are displayed on the remote controller or the operation indicator to inform the user of malfunctions detected.

SPECIFICATIONS

SERIES			Deluxe Wall Mounted MSZ-FH Series			Signature Wall Mounted MSZ-EF Series				
Model			MSZ-FH25VE-A1 MUZ-FH25VE-A1	MSZ-FH35VE-A1 MUZ-FH35VE-A1	MSZ-FH50VE-A1 MUZ-H50VE-A1	MSZ-EF22VEW/B/S (MXZ only)	MSZ-EF25VEW/B/S MUZ-EF25VE	MSZ-EF35VEW/B/S MUZ-EF35VE	MSZ-EF42VEW/B/S MUZ-EF42VE	MSZ-EF50VEW/B/S MUZ-EF50VE
Cooling Performance	Nominal Total Cooling *1	kW	2.5 (1.4-3.5)	3.5 (0.8-4.0)	5.0 (1.9-6.0)	2.2	2.5 (1.2-3.4)	3.5 (1.4-4.0)	4.2 (0.9-4.6)	5.0 (1.4-5.4)
	AEER/EER		4.60 / 4.90	3.92 / 4.07	3.54 / 3.62	-	4.56/4.59	3.83/3.85	3.27/3.28	3.20/3.21
	Star Rating		5.5	3.5	2.5	-	4.5	3	2	1.5
Heating Performance	Nominal Heating Capacity *1	kW	3.2 (1.8-5.5)	4.0 (1.0-6.3)	1.7 (6.0-8.7)	-	3.2 (1.1-4.2)	4.0 (1.8-5.5)	5.4 (1.4-6.3)	5.8 (1.6-7.5)
	ACOP/COP		5.21/5.52	4.8/5.0	3.96/4.05	-	4.55/4.57	4.17/4.19	3.69/3.70	3.70/3.71
	Star Rating		6	5	3.5	-	4.5	4	2.5	2.5
Airflow	Airflow (Cooling/ Heating)	L/s	78-193/78-220	78-193/78-220	123-207/ 120-243	67-175/67-198	67-175/67-198	67-175/67-212	97-172/92-212	97-183/107-220
Indoor Unit	Dimensions (H x W x D)	mm	305 (+17) × 925 × 234	305 (+17) × 925 × 234	305 (+17) × 925 × 234	299 x 895 x 195	299 x 895 x 195	299 x 895 x 195	299 x 895 x 195	299 x 895 x 195
	Unit Weight	kg	13.5	13.5	13.5	11.5	11.5	11.5	11.5	11.5
	Noise Level (SPL/PWL) - in Cooling	dB(A)	23 - 29 - 36 - 42	23 - 29 - 36 - 42	31 - 35 - 39 - 44	21-23-39-36-42	21-23-29-36-42	21-24-29-36-42	28-31-35-39-42	30-33-36-40-43
Outdoor Unit	Dimensions (H x W x D)	mm	550 x 800 x 285	550 x 800 x 285	880 x 840 x 330	Refer to MXZ	550 x 800 x 285	550 x 800 x 285	550 x 800 x 285	850 x 840 x 330
	Weight	kg	37	37	55		30	35	35	54
	Noise Level (SPL/PWL) - in Cooling	dB(A)	60	61	64		47/60	49/63	50/64	52/66
Electrical	Volt / Phase		230/Single	230/Single	230/Single	Refer to MXZ	240/1	240/1	240/1	240/1
Refrigerant	Pipe Size (Gas) OD	mm (Inch)	9.52 / 6.35	9.52 / 6.35	12.7 / 6.35	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)
	Pipe Size (Liquid) OD	mm (Inch)	9.52 / 6.35	9.52 / 6.35	12.7 / 6.35	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
	Max Pipe Run	m	20 / 12	20 / 12	30 / 12	Refer to MXZ	20	20	20	30
	Outdoor - Cooling	°CDB	-10 ~ 46	-10 ~ 46	-10 ~ 46	Refer to MXZ	-10 to 46			
	Outdoor - Heating	°CDB/ °CWB	-15 ~ 24	-15 ~ 24	-15 ~ 24	Refer to MXZ	-15/16 to 24/18			

Notes:

*1 Nominal conditions cooling: EAT 27°CDB/19°CWB, Ambient 35°CDB. Rated conditions cooling: EAT 24°CDB/17°CWB, Ambient 35°CDB. Nominal conditions heating: EAT 20°CDB/15°CWB, Ambient 7°CDB/6°CWB.

*2 Rated Load Amps (RLA) is based on nominal conditions. Use Maximum Circuit Amps (MCA) for power supply infrastructure sizing, etc.

*3 3-core (3C) electrical power supply cable to outdoor unit only, indoor unit is fed from outdoor unit.

SPECIFICATIONS

Classic Wall Mounted MSZ-GE Series			Classic Wall Mounted MSZ-GE Series				
MSZ-GE22VAD (MXZ only)	MSZ-GE25VAD MUZ-GE25VAD	MSZ-GE35VAD MUZ-GE35VAD	MSZ-GE42VAD MUZ-GE42VAD	MSZ-GE50VAD MUZ-GE50VAD	MSZ-GE60VAD MUZ-GE60VAD	MSZ-GE71VAD MUZ-GE71VAD	MSZ-GE80VAD MUZ-GE80VAD
2.2	2.5 (1.1-3.5)	3.5 (1.1-4.0)	4.2 (0.9-4.8)	5.0 (1.4-5.4)	6.0 (1.5-7.5)	7.1 (2.4-8.7)	8.0 (2.4-9.2)
-	4.21/4.46	3.67/3.80	3.25/3.33	3.17/3.24	3.37/3.41	3.30/3.33	3.14/3.17
-	4.0	3.0	2.0	2.0	2.5	2.0	2.0
-	3.2 (1.3-4.1)	4.0 (1.6-5.3)	5.4 (1.4-6.0)	5.8 (1.4-7.2)	6.8 (2.0-9.3)	8.1 (2.2-9.9)	9.0 (2.2-11.1)
-	4.19/4.38	3.91/4.04	3.43/3.51	3.44/3.52	3.80/3.84	3.80/3.84	3.50/3.53
-	4.0	3.5	2.5	2.5	3.0	3.0	2.5
68-188/68-192	68-188/68-192	68-212/68-192	97-213/97-218	108-252/108-242	163-305	170-298	170-298
295 x 798 x 232	295 x 798 x 232	295 x 798 x 232	295 x 798 x 232	295 x 798 x 232	325 x 1100 x 238	325 x 1100 x 238	325 x 1100 x 238
10	10	10	10	10	16	16	16
19-21-29-36-42	19-21-29-36-42	19-22-30-36-43	26-30-35-40-46	28-33-38-44-49	29-37-41-45-49	30-37-41-45-49	30-37-41-45-49
Refer to MXZ	550 x 800 x 285	550 x 800 x 285	550 x 800 x 285	850 x 840 x 330	880 x 840 x 330	880 x 840 x 330	880 x 840 x 330
	30	33	36	54	50	53	53
	46/58	47/61	50/62	54/69	55/69	55/69	55/69
Refer to MXZ	240/1	240/1	240/1	240/1	240/1	240/1	240/1
9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	9.52 (3/8)	9.52 (3/8)
Refer to MXZ	20	20	20	30	30	30	30
Refer to MXZ	-10 to 46	-10 to 46					
Refer to MXZ	-15/16 to 24/18	-15/16 to 24/18					

Notes:

*4   Single core double insulated (SDI) and Thermoplastic Sheated (TPS) twin and earth (2C+E).
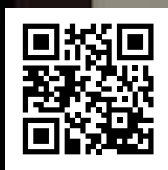
*6   Optional wi-fi control: MAC-558-IF-E

MITSUBISHI ELECTRIC

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