



## New Zealand's Quietest Heat Pumps

\*The MSZ-GE25 & MSZ-GE35 are 19 dB(A) when operating on their lowest fan speed (Quiet Mode), as at 1st May 2009.



**Quietly Superior**



## COMFORT FOR ALL OF NEW ZEALAND.

Relax in comfort from burning summer days or freezing cold nights with up to four times the energy efficiency of conventional heating appliances. Mitsubishi Electric cuts your heating costs and your budget.

An extensive feature-rich range ensures there is a model to meet your needs, our contemporary styling will compliment any interior. All this with the whisper quietness you have come to expect from Mitsubishi Electric.

Everyone deserves a home where they can rely on year round superior comfort and Mitsubishi Electric is able to make that possible.



### Smarter Heating

Whether you're looking for a new Heat Pump or wanting to learn how to use your Heat Pump more efficiently [www.smarterheating.co.nz](http://www.smarterheating.co.nz) has the answer.

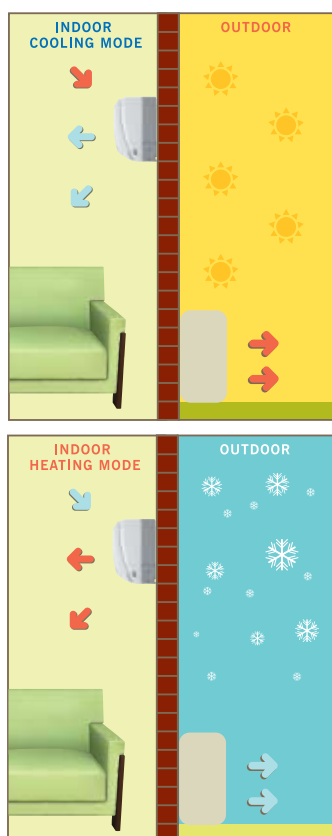
This online site was specifically developed by Mitsubishi Electric to answer the most common Heat Pump questions so that consumers can make truly informed decisions.

## HOW DO HEAT PUMPS WORK?

It's actually quite simple. Mitsubishi Electric Heat Pumps work in much the same way as your refrigerator except there are two separate, but integral, parts to the system. There is an outdoor unit housing the compressor that is similar to the exterior back of your fridge, this extracts freely available heat energy from the outside air and transfers or "pumps" it back inside your home. The result – you feel warm inside.

During the summer the Heat Pump reverses this operation, extracting heat energy from the air inside your home and pumping it outside. The end effect - you feel cooler inside!

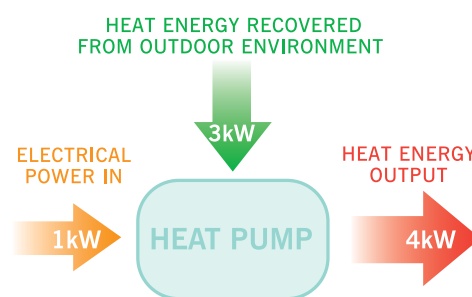
For more information visit: [www.smarterheating.co.nz](http://www.smarterheating.co.nz)



## HEAT PUMPS OFFER MAXIMUM ENERGY EFFICIENCY.

EECA (Energy Efficiency Conservation Authority) has identified Heat Pumps as one of the most energy efficient forms of heating available in New Zealand. Heat Pumps do not create heat; they simply move available heat from one place to another. The little electrical energy that is needed is predominantly used to run the compressor.

Typically, only 1kW of electrical energy is required to "pump" up to 4kW of available heat energy from the outdoor environment to a specific area inside the home.



In other words, the Heat Pump transfers a lot more available energy than it actually consumes. With energy efficiencies of up to 400%, this is why Heat Pumps are promoted by EECA as one of the most energy efficient forms of heating available to New Zealanders. This is often represented as a COP (Co-efficient Of Performance). The ratio of kW input to kW output. In the example above the COP would be 4.



## WHAT FEATURES TO LOOK FOR?

### New Zealand's Quietest Heat Pumps

Sound is measured using a logarithmic measurement known as decibels or dB(A). The normal range of human hearing begins at approximately 0 decibels – however a sound usually needs to reach 10-15 dB(A) before it is detected (this is the sound level of someone breathing normally).

The loudness of sound increases by 52% for every additional 6 dB(A) or doubles for every 10 dB(A). So a Heat Pump that produces 25 dB(A) of sound will be one and half times louder than a Heat Pump that produces 19 dB(A). *An increase of 1 dB(A) equates to an increase in sound intensity of 26%!*

Mitsubishi Electric has a long-standing reputation for manufacturing the Quietest Heat Pumps / Air Conditioners available. As even a small dB(A) increase will impact the sound level you experience, Mitsubishi Electric strives to continuously improve the sound levels of their Heat Pumps. The Mitsubishi Electric MSZ-GE25VA and MSZ-GE35VA Inverter High Wall indoor units are New Zealand's Quietest Heat Pumps at an amazingly low 19 dB(A) on their lowest fan speed (Quiet Mode). Mitsubishi Electric's "Quiet Mode" is designed to ensure you receive the comfort levels you desire while experiencing the quietest sound levels available. We understand that you want to feel the warmth not hear it!



### Advanced Energy Efficiency

Mitsubishi Electric aims to provide the most energy efficient Heat Pump Systems by combining high energy efficiency with unique energy saving features.

The MSZ-GE25/35/50, MSZ-GA60, MSZ-FB25/35/50, MFZ-KA25/35 & SLZ-KA25/35 have all been awarded the ENERGY STAR mark signaling that they meet the strict energy efficiency guidelines.



### Unique Energy Saving Features

#### i-see Sensor

See MSZ-FB Deluxe High Wall, pages 11-12.



#### i-save Mode

See MSZ-GE High Wall, pages 7-8 / MFZ-KA Floor Console, pages 13-14.

#### Econo Cool

See MSZ-GE High Wall, pages 7-8 / MSZ-GA High Wall, pages 9-10 / MSZ-FB Deluxe High Wall, pages 11-12 / MFZ-KA Floor Console, pages 13-14.

### Inverter Technology for even more Energy Savings

Mitsubishi Electric Inverter technology offers even more energy savings by matching compressor speed output to your indoor heating or cooling load conditions. Energy savings of up to 30% are possible when compared to fixed speed. Mitsubishi Electric Inverter models also have the capability to run above rated capacity for quicker achievement of design controlled environment conditions under adverse outdoor conditions.

### Guaranteed Heating Performance to -15°C

The Mitsubishi Electric range guarantees heating performance down to -15°C to ensure adequate heating on even the coldest nights or mornings when you really need it.

### Air Purification

Sufferers of asthma, hay fever and other allergies will benefit greatly from our Deluxe Inverter Plasma Duo High Wall models which feature state-of-the-art filtration. The washable Plasma Electrode Filter effectively breaks down dust, smoke and pollen, whilst the washable Ceramic Filter is engineered to decompose unpleasant odours and deodorise the air.

### Humidity Regulation

As well as causing unpleasant odours, dampness and mould are the main contributors to the deterioration of furniture, drapes and chattels.

The Mitsubishi Electric range has a DRY cycle function, where the indoor coil acts like a mirror in a bathroom collecting moisture and removing it via the attached condensate drain.

### The Defrost Cycle

When the outside temperature drops below zero all heat pumps must perform a "defrost cycle" to remove ice build up on their outdoor coils. Mitsubishi Electric has developed an advanced defrost strategy to enable more efficient operation in extreme conditions.

Mitsubishi Electric Heat Pumps utilise a Fuzzy Logic software program, a form of Artificial Intelligence, that typically lasts between 3 to 5 minutes. This program measures and records temperatures and running times then uses this data to initiate the defrost cycle only when required.

### 7 Day Timer

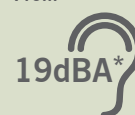
Wake up or come home to optimal temperatures whilst conserving energy. The optional 7 Day Timer from Mitsubishi Electric allows you to program your air conditioning system with up to 8 separate Start/Stop patterns per day over a 7 day period.



## Air Conditioning Heat Pumps

\*The MSZ-GE25 & MSZ-GE35 are 19dB(A) when operating on their lowest fan speed (Quiet Mode), as at 1st May 2009.

From





## INVERTER HIGH WALL







For details refer page 7 - 10

### MSZ-GE / GA SERIES



**MSZ-GE25/35/50VA**

- Compact Flat Panel Design
- New Zealand's Quietest at 19 dB(A)\*\*
- "I-save" Mode\*\*\*
- Catechin Filter
- Anti-Allergy Enzyme Filter
- Energy-saving "Econo Cool"
- Wide and Long Air Flow\*\*\*\*
- Auto Change Over
- Quick-clean Design\*\*\*
- 24 Hour Timer
- Optional PAR-21MAA 7 Day Wired Wall Timer
- Longer Piping Length
- Guaranteed Heating Performance down to -15°C

						
ENERGY RATING	6.0 6.0	6.0 6.0	4.5 5.0	4.0 4.0	4.0 4.0	2.5 3.0
MODEL	MSZ-GE25	MSZ-GE35	MSZ-GE50	MSZ-GA60	MSZ-GA71	MSZ-GA80
COOL	2.5kW 4.46 EER 19 dB(A)*	3.5kW 3.47 EER 19 dB(A)*	5.0kW 3.05 EER 28 dB(A)*	6.0kW 3.08 EER 32 dB(A)*	7.1kW 2.91 EER 33 dB(A)*	8.1kW 2.53 EER 33 dB(A)*
HEAT	3.2kW 4.38 COP 19 dB(A)*	4.0kW 3.88 COP 19 dB(A)*	5.8kW 3.52 COP 28 dB(A)*	6.8kW 3.42 COP 32 dB(A)*	8.1kW 3.24 COP 33 dB(A)*	9.0kW 2.90 COP 33 dB(A)*

\*Sound Levels rated at lowest fan speed.

\*\*For MSZ-GE25/35VA, as at 1st May 2009.

\*\*\*For MSZ-GE25/35/50VA.

\*\*\*\*For MSZ-GA60/71/80VA.



**MSZ-GA60/71/80VA**

## DELUXE INVERTER HIGH WALL




For details refer page 11 - 12

### MSZ-FB SERIES



**MSZ-FB25/35/50VA**

- Compact Flat Panel Design
- Super Quiet Operation at just 20 dB(A)\*\*
- Energy Saving "i-see" Temperature Sensor
- Long Life Washable Plasma Deodorising Filter
- Long Life Washable Plasma Air Purifying Filter
- Self Cleaning "Ozone Shower"
- Quick Clean Design
- Energy-saving "Econo Cool"
- Auto Change Over
- 24 Hour Timer
- Optional PAR-21MAA 7 Day Wired Wall Timer
- Longer Piping Length
- Guaranteed Heating Performance down to -15°C

			
ENERGY RATING	6.0 6.0	6.0 6.0	5.0 5.5
MODEL	MSZ-FB25	MSZ-FB35	MSZ-FB50
COOL	2.5kW 4.76 EER 20 dB(A)*	3.5kW 3.93 EER 20 dB(A)*	5.0kW 3.13 EER 29 dB(A)*
HEAT	3.2kW 4.89 COP 20 dB(A)*	4.0kW 4.44 COP 21 dB(A)*	6.0kW 3.66 COP 27 dB(A)*

\*Sound Levels rated at lowest fan speed.

\*\*For MSZ-FB25VA, as at 1st May 2009.

 Advanced Energy Saving  
**i-see Sensor**

**Plasma Duo**  
Filter Systems



## INVERTER COMPACT FLOOR CONSOLE

For details refer page 13 - 14

### MFZ-KA SERIES



#### MFZ-KA25/35/50VA

- Slim Line Compact Design
- Quiet Operation: 22 dB(A)\*\*
- "I-save" Mode
- Catechin and Anti-Allergy Enzyme Filters
- Energy-saving "Econo Cool"
- Swing and Auto Modes
- Auto Change Over
- 24 Hour Timer
- Optional PAR-21MAA 7 Day Wired Wall Timer
- Longer Piping Length
- Guaranteed Heating Performance down to -15°C

ENERGY RATING	6.0	4.5	4.5
MODEL	MSZ-KA25	MSZ-KA35	MSZ-KA50
COOL	2.5kW 4.31 EER 22 dB(A)*	3.5kW 3.21 EER 23 dB(A)*	4.8kW 3.10 EER 32 dB(A)*
HEAT	3.4kW 4.07 COP 22 dB(A)*	4.0kW 3.64 COP 25 dB(A)*	6.0kW 3.23 COP 32 dB(A)*

\*Sound Levels rated at lowest fan speed.

\*\*For MFZ-KA25VA, as at 1st May 2009.

## INVERTER COMPACT CEILING CASSETTE

For details refer page 15

### SLZ-KA SERIES



#### SLZ-KA25/35/50VA(L)

- Compact Design
- Light Weight Design
- Long-life Filter
- Fresh Air Intake
- Smudge-free Airflow
- Auto Change Over
- Auto Vane
- 12 Hour Timer (Wireless)\*\*
- PAR-21MAA 7 Day Wired Wall Timer\*\*\*
- Longer Piping Length
- Guaranteed Heating Performance down to -15°C

ENERGY RATING	6.0	5.0	3.5
MODEL	SLZ-KA25	SLZ-KA35	SLZ-KA50
COOL	2.5kW 3.62 EER 28 dB(A)*	3.5kW 3.30 EER 29 dB(A)*	4.6kW 2.82 EER 30 dB(A)*
HEAT	3.0kW 3.61 COP 28 dB(A)*	4.0kW 3.64 COP 29 dB(A)*	5.0kW 3.23 COP 30 dB(A)*

\*Sound Levels rated at lowest fan speed.

\*\*SLZ-KA25/35/50VAL.

\*\*\*SLZ-KA25/35/50VA.



## Mitsubishi Electric Quality

### PAR-21MAA 7 DAY TIMER

**Wake up or come home to optimal temperatures whilst conserving energy!**

The controller allows your system to be programmed to maintain optimal temperature levels during the times when you are likely to be in the room. In the periods where you are unlikely to be there (such as during work hours or sleep time), the temperature can be set back to a minimum holding temperature instead of turning the system completely off.

Turning a system on and off typically uses the most energy because the system has to heat a room starting from a very low temperature. By maintaining a minimum holding temperature Mitsubishi Electric inverter technology saves you energy as the temperature only needs to be raised by a couple of degrees.

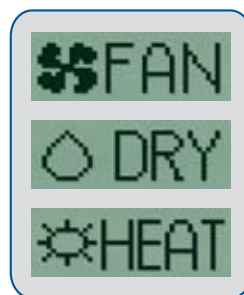
Most air conditioning systems come with a 24 hour timer on the remote controller. This means you can only set the system to automatically turn on and then off once within a 24 hour period. This needs to be manually reactivated each time. The Mitsubishi Electric 7 day timer allows you to program up to 8 separate Start/Stop patterns per day over a 7 day period.

For example:

- Between 10pm till 6am set temperature to 18°C
- Between 6am and 9am set temperature to 21°C
- Between 9am and 5.30pm set temperature to 18°C
- Between 5.30pm and 10pm set temperature to 21°C
- Between 10pm and 6am set temperature to 18°C

#### Industry First! Multi-language Display

The display can be set to 8 different languages.



The new clear and precise display is easy to understand for any user.



#### Operation Control Function.

##### Limiting the set temperature range of the air conditioning operation.

The setting of the upper and lower limit temperature is possible. This conserves energy by preventing excessive cooling and heating.

##### Automatic off timer - For turning off the air conditioning operation.

The system can be switched off automatically thereby preventing wasteful operation. The set time can be changed from 30 minutes to 4 hours at 30-minute intervals.

##### Operation lock - This prevents random modification of settings.

Two lock functions are available:

1. Lock all buttons.
2. Lock all buttons other than ON/OFF button.

[French] [Russian] [Chinese] [Japanese] [English] [Spanish] [Italian] [German]



## FEATURES

Energy Saving			
DC Inverter	PAM Control	AREA Setting	Econo Cool more info page 8 / 10
<b>i-see Sensor</b> Advanced Energy Saving i-see Temperature Sensor more info page 12		i-save more info page 8 / 14	
Comfort			
Sound Level at 19dBA	Auto Vane	Area Setting more info page 14	Vertical Airflow more info page 14
Swing Vertical Vane	Swing Horizontal Vane	Wide Airflow more info page 10	Long Airflow more info page 10
Fresh Air			
Plasma Duo Filter System more info page 12		Anti Allergy Enzyme Filter	Healthy Catechin Filter
Anti Mold Air Cleaning Filter	Air Cleaning Filter	Long Life Filter	Self Cleaning Ozone Shower
Design			
Flat Panel Style	Compact Size	Pure White Finish	Glossy White Finish
Convenience			
24 Hour Timer on Remote	7 Day Wall Timer	Central On/Off Controller	M-NET Connection (G50)
Guaranteed Heating at -15°C	Guaranteed Cooling at -10°C	Wide Range Cooling Temperature	
Auto Change Over	Auto Restart		
Installation and Maintenance			
Cleaning Free Pipe Reuse	Failure Recall Function	Easy Installation with Leveling Plate	Quick Clean Body
Easy and Simple Flare Connection	Long Length Piping	Multi Split Connection for MXZ Series	Self Diagnosis Function



## What Heat Pump Will I Need?

### HEATING SIZING CHART GUIDE

#### Use this guide to give you an approximate unit size.

Units should not be purchased without an in-home quote being completed by a qualified Mitsubishi Electric Authorised Dealer. Every home is as individual as its owner. The key to selecting the right heat pump for heating your home is to choose the correct unit size. Choosing the wrong unit could cost you more in power consumption. You can use this guide to give you an approximate unit size, but the correct calculation needs to be carried out by a qualified specialist.

#### New or Well Insulated House - Guide Only:

Room Size Calculation								M-Series Inverter			S-Series Inverter	
Room Size		Ceiling Height		Room Volume		Room Size Factor		kW Heating	High Wall	Deluxe High Wall	Compact Floor Console	Ceiling Cassette
4x3m	x	2.4m	=	28.8m³	x	55watts per m³	=	1.6 kW	MSZ-GE25VA*	MSZ-FB25VA*	MFZ-KA25VA*	SLZ-KA25VA*
4x4m	x	2.4m	=	38.4m³	x	55watts per m³	=	2.1 kW	MSZ-GE25VA*	MSZ-FB25VA*	MFZ-KA25VA*	SLZ-KA25VA*
4x5m	x	2.4m	=	48.0m³	x	55watts per m³	=	2.6 kW	MSZ-GE25VA*	MSZ-FB25VA*	MFZ-KA25VA*	SLZ-KA25VA
5x5m	x	2.4m	=	60.0m³	x	55watts per m³	=	3.3 kW	MSZ-GE25VA	MSZ-FB25VA	MFZ-KA25VA	SLZ-KA35VA
6x5m	x	2.4m	=	72.0m³	x	55watts per m³	=	4.0 kW	MSZ-GE35VA	MSZ-FB35VA	MFZ-KA35VA	SLZ-KA35VA
6x6m	x	2.4m	=	86.4m³	x	55watts per m³	=	4.7 kW	MSZ-GE50VA	MSZ-FB50VA	MFZ-KA50VA	SLZ-KA50VA
6x7m	x	2.4m	=	100.8m³	x	55watts per m³	=	5.5 kW	MSZ-GE50VA	MSZ-FB50VA	MFZ-KA50VA	
7x7m	x	2.4m	=	117.6m³	x	55watts per m³	=	6.5 kW	MSZ-GA60VA			
7x8m	x	2.4m	=	134.4m³	x	55watts per m³	=	7.4 kW	MSZ-GA71VA			
8x8m	x	2.4m	=	153.6m³	x	55watts per m³	=	8.4 kW	MSZ-GA80VA			

Note: \* Higher rated unit for application, but can be used.

#### Cold Damp House or Lots of Glass - Guide Only:

Room Size Calculation									M-Series Inverter			S-Series Inverter
Room Size		Ceiling Height		Room Volume		Room Size Factor		kW Heating	High Wall	Deluxe High Wall	Compact Floor Console	Ceiling Cassette
4x3m	x	2.4m	=	28.8m³	x	65watts per m³	=	1.9 kW	MSZ-GE25VA*	MSZ-FB25VA*	MFZ-KA25VA*	SLZ-KA25VA*
4x4m	x	2.4m	=	38.4m³	x	65watts per m³	=	2.5 kW	MSZ-GE25VA*	MSZ-FB25VA*	MFZ-KA25VA*	SLZ-KA25VA
4x5m	x	2.4m	=	48.0m³	x	65watts per m³	=	3.1 kW	MSZ-GE25VA	MSZ-FB25VA	MFZ-KA25VA	SLZ-KA25VA
5x5m	x	2.4m	=	60.0m³	x	65watts per m³	=	3.9 kW	MSZ-GE35VA	MSZ-FB35VA	MFZ-KA35VA	SLZ-KA35VA
6x5m	x	2.4m	=	72.0m³	x	65watts per m³	=	4.7 kW	MSZ-GE50VA	MSZ-FB50VA	MFZ-KA50VA	SLZ-KA50VA
6x6m	x	2.4m	=	86.4m³	x	65watts per m³	=	5.6 kW	MSZ-GE50VA	MSZ-FB50VA	MFZ-KA50VA	
6x7m	x	2.4m	=	100.8m³	x	65watts per m³	=	6.5 kW	MSZ-GA60VA			
7x7m	x	2.4m	=	117.6m³	x	65watts per m³	=	7.6 kW	MSZ-GA71VA			
7x8m	x	2.4m	=	134.4m³	x	65watts per m³	=	8.7 kW	MSZ-GA80VA			

Note: \* Higher rated unit for application, but can be used.

#### What type of unit is best suited for your environment.

Mitsubishi Electric Heat Pumps / Air Conditioners are manufactured with various indoor unit options: Wall-Mounted, Floor Console and Ceiling Cassette Types. Each type of indoor unit has features and advantages depending on your own particular application.



**Wall-mounted:** The most popular residential unit choice. As well as taking up no floor space, this unit offers extremely quiet operation (19dB(A): MSZ-GE25/35VA), the quietest in the industry.

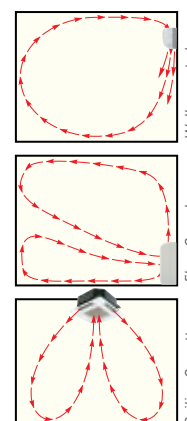


**Compact Floor Console:** The floor mounted units are designed with heating applications in mind. They are ideal for space heater or gas fire/fireplace replacement. They can be recess mounted into the wall cavity to give a more shallow profile for hallway installation.



**Ceiling Cassette:** The ceiling mounted units take up no floor space. These units have four way air direction and adjustable air flow patterns. These units are more suited to larger floor areas.

Other types are available, such as Ceiling Concealed (Ducted) and Multi-Split Systems where many indoor units can be connected to one outdoor. For more information on these please visit: [www.mitsubishi-electric.co.nz](http://www.mitsubishi-electric.co.nz)



Wall-mounted

Floor Console

Ceiling Cassette

# Inverter MSZ-GE Series

HIGH WALL

## New Zealand's Quietest Heat Pumps\* Unique Energy Saving Features Compact Flat Panel Styling

The new MSZ-GE Series features New Zealand's two quietest Heat Pumps at just 19 dBA\*. Increased energy efficiency across the range combined with new energy saving features including "i-save" mode and Econo Cool ensure you are provided the highest level of energy efficiency without compromising on performance or quality.

The contemporary flat panel styling compliments any interior. The range also features a Catechin Filter for improved air quality and comfort.

\* The MSZ-GE25 & MSZ-GE35 are 19 dB(A) when operating on their lowest fan speed (Quiet Mode), as at 1st May 2009.

From  
**19dBA\***



Dimensions (W x D x H): 798 x 232 x 295mm



### MSZ-GE25VA (MSZ-GE25VA + MUZ-GE25VA)

Cooling Capacity: 2.5 (1.1~3.5) kW  
Heating Capacity: 3.2 (1.3~4.5) kW



### MSZ-GE35VA (MSZ-GE35VA + MUZ-GE35VA)

Cooling Capacity: 3.5 (1.4~3.9) kW  
Heating Capacity: 4.0 (1.4~4.8) kW



### MSZ-GE50VA (MSZ-GE50VA + MUZ-GE50VA)

Cooling Capacity: 5.0 (1.4~5.4) kW  
Heating Capacity: 5.8 (1.4~7.2) kW



ENERGY STAR is the global mark of energy efficiency. All models in the MSZ-GE Series have been awarded the ENERGY STAR signaling that they meet strict energy efficiency guidelines. You can rest assured these will provide the highest level of energy efficiency without compromising on performance or quality.

## Features

**HEAT PUMP**

**Only 19dB** (GE25, GE35)

**i save**

**Econo Cool**

**Cooling at 46°C/10°C**

**Heating at -15°C**

**ACO**

**Catechin**

**Anti-Alergy Enzyme** (Optional)

**AUTO VANE**

**SWING**

**AUTO**

**Pure White**

**Quick Clean**

**DC Inverter**

**Joint Lap**

**Rare Earth Magnet**

**DC Fan Motor**

**PAM Control**

**Auto Restart**

**24 Hour Timer**

**Weekly Timer** (Optional)

**Centralised On/Off** (Optional)

**M-NET connection** (Optional)

**Self Diagnosis**

**Failure Recall**

**12m 20m** (GE25, GE35)

**15m 30m** (GE50)

**MXZ connection**

**Flare connection**

**Grooved Piping**

**Cleaning-free, pipe reuse**

**Optional\*: PAR-21MAA 7 Day Timer** (Requires MAC-3371F-E)

**Infra Red Remote Controller**

For further information on these features please go to page 5 or visit: [www.mitsubishi-electric.co.nz](http://www.mitsubishi-electric.co.nz)

## Outdoor Units

**MUZ-GE25/35VA**  
Dimensions (WxDxH)  
800 x 285 x 550mm

**MUZ-GE50VA**  
Dimensions (WxDxH)  
840 x 330 x 850mm





MSZ-GE25/35/50



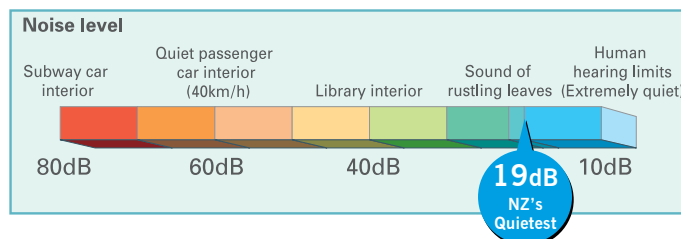
## New Zealand's Quietest Heat Pumps

The new MSZ-GE Series features the two quietest Heat Pumps available in New Zealand.

Mitsubishi Electric has introduced a new fan speed rating system. The new lowest setting is called 'Quiet Mode' and is the equivalent to low fan speed in the previous MSZ-GA/GB Series. This new rating system has allowed Mitsubishi Electric to produce even quieter Heat Pumps; in fact the MSZ-GE25 and MSZ-GE35 are New Zealand's Quietest Heat Pumps at just 19 dB(A) on their lowest fan speed (Quiet Mode).

This means even on Quiet Mode you can be assured these heat pumps will not compromise on home comfort.

Only  
19dB  
MSZ-GE25/35



MODEL	MSZ-GE25	MSZ-GE35	MSZ-GE50
COOL	19 dB(A)	19 dB(A)	28 dB(A)
HEAT	19 dB(A)	19 dB(A)	28 dB(A)

Sound Levels rated at lowest fan speed.

## Higher Energy Efficiency

The combination of cutting-edge inverter technologies and a highly efficient heat exchanger result in remarkable energy efficiency. Compared to its predecessor the MSZ-GA/GB Series, the MSZ-GE Series has improved EER and COP ratings across all models.

The entire MSZ-GE Series have gained the ENERGY STAR Mark showing that they achieve the highest levels of energy efficiency. You can rest assured the MSZ-GE Series will provide the highest level of energy efficiency without compromising on performance or quality.

ENERGY RATING	6.0	6.0	4.5
MODEL	MSZ-GE25	MSZ-GE35	MSZ-GE50
	The more stars the more energy efficient	The more stars the more energy efficient	The more stars the more energy efficient
COOL	2.5kW 4.46 EER	3.5kW 3.47 EER	5.0kW 3.05 EER
HEAT	3.2kW 4.38 COP	4.0kW 3.88 COP	5.8kW 3.52 COP

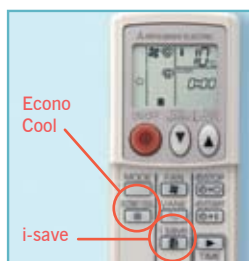
## Unique Energy Saving Features

### "i-save" Mode

With this function, settings including temperature, fan speed, and airflow direction for both cooling and heating operation can be saved simultaneously. This function can be used to quickly return to your preferred settings. The "i-save" mode can be used as an energy saving function. If the stored "i-save" settings are 2-3°C cooler than the normal temperature setting when activated, the room will be set to the cooler temperature. When the room is reoccupied the button can be pressed to return to the original settings.

### Econo Cool

This energy saving function can be selected in cooling mode. The temperature is automatically set to 2°C higher, while the airflow is switched to a swing flow. This airflow pattern feels cooler than constant airflow allowing reduced energy consumption.



## Auto Change Over Function

When the desired temperature is reached, the system automatically switches between cooling and heating modes. The selected room temperature can be maintained without user intervention.

For example, when it's frosty in the early morning the unit will operate on heating to maintain a set point of 22°C in heating mode. When the sun rises the unit can switch to cooling to maintain the 22°C set temperature.

## Healthy Catechin Filter

Catechin is a Bioflavonoid that is found in green tea. It has both antiviral and antioxidant qualities and also offers excellent deodorising characteristics. Because of these unique properties Mitsubishi Electric has incorporated this compound in its filters for all models in the GE Series, to not only improve air quality but also help prevent the spread of airborne bacteria and viruses in the room. The filter can easily be removed and, when washed regularly, will deodorise effectively for over 10 years.



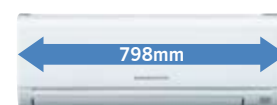
## Optional: Anti Allergy Enzyme Filter

To combat allergens, Mitsubishi Electric offers an Anti Allergy Enzyme Filter with the power to remove harmful microbes such as bacteria\*, viruses, dust mites, and pollen. The enzymes destroy any germs caught in the filter, preventing them from working their way further inside the system.

\* Confirmed by the Japan Spinners Inspecting Foundation

## Pure White, Flat Panel Styling

The understated, clean lines of the new pure white finished MSZ-GE Series will fit seamlessly into any interior. At only 798mm, the compact sizing will allow a wide range of applications from small to even larger rooms.



## Guaranteed Heating Performance to -15°C

Not all heat pumps perform when they are needed most. Our range is guaranteed to effectively provide heating on those cold nights or mornings when you really need it.

# Inverter MSZ-GA Series

HIGH WALL

## Energy Saving Features Filtration to Improve Air Quality Wide and Long Airflow

The MSZ-GA Inverter High Wall Series is energy efficient and quiet. The contemporary flat panel styling compliments any interior. The range features a Catechin Filter and an Anti Allergy Enzyme Filter for improved air quality and comfort.

The Wide and Long Airflow modes allow the airflow direction to be adjusted, ensuring every corner of the room is comfortable.



Dimensions (W x D x H): 1,100 x 258 x 325mm



### MSZ-GA60VA (MSZ-GA60VA + MUZ-GA60VA)

Cooling Capacity: 6.0 (0.9~6.7) kW

Heating Capacity: 6.8 (0.9~8.1) kW



### MSZ-GA71VA (MSZ-GA71VA + MUZ-GA71VA)

Cooling Capacity: 7.1 (0.9~8.3) kW

Heating Capacity: 8.1 (0.9~9.6) kW

### MSZ-GA80VA (MSZ-GA80VA + MUZ-GA80VA)

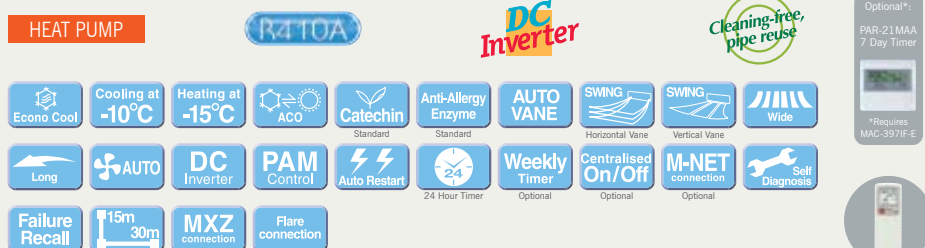
Cooling Capacity: 8.1 (0.9~8.8) kW

Heating Capacity: 9.0 (0.9~11.1) kW



ENERGY STAR is the global mark of energy efficiency. The MSZ-GA60VA has been awarded the ENERGY STAR signaling that it meets strict energy efficiency guidelines. You can rest assured this will provide the highest level of energy efficiency without compromising on performance or quality.

## Features



For further information on these features please go to page 5 or visit: [www.mitsubishi-electric.co.nz](http://www.mitsubishi-electric.co.nz)

## Outdoor Units



### MUZ-GA60/71/80VA

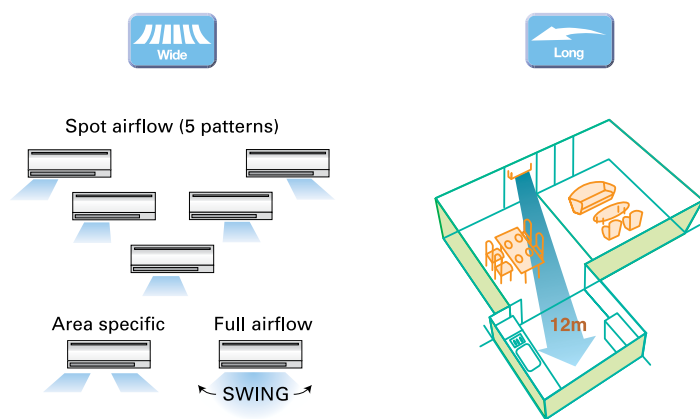
Dimensions (WxDxH)  
840 x 330 x 850mm



## 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.



## Energy Ratings and Sound Levels

ENERGY RATING	4.0	4.0	2.5
MODEL	MSZ-GA60	MSZ-GA71	MSZ-GA80
COOL	6.0kW 3.08 EER 32 dB(A)*	7.1kW 2.91 EER 33 dB(A)*	8.1kW 2.53 EER 33 dB(A)*
HEAT	6.8kW 3.42 COP 32 dB(A)*	8.1kW 3.24 COP 33 dB(A)*	9.0kW 2.90 COP 33 dB(A)*

\* Sound Level rated at low fan speed.

## Auto Change Over Function

When the desired temperature is reached, the system automatically switches between cooling and heating modes. The selected room temperature can be maintained without user intervention.

For example, when it's frosty in the early morning the unit will operate on heating to maintain a set point of 22°C in heating mode. When the sun rises the unit can switch to cooling to maintain the 22°C set temperature.

## Guaranteed Heating Performance to -15°C

Not all heat pumps perform when they are needed most. Our range is guaranteed to effectively provide heating on those cold nights or mornings when you really need it.

## Healthy Catechin Filter

Catechin is a Bioflavonoid that is found in green tea. It has both antiviral and antioxidant qualities and also offers excellent deodorising characteristics. Because of these unique properties Mitsubishi Electric has incorporated this compound in its filters for all models in the GA Series, to not only improve air quality but also help prevent the spread of airborne bacteria and viruses in the room. The filter can easily be removed and, when washed regularly, will deodorise effectively for over 10 years.



## Anti Allergy Enzyme Filter

To combat allergens, Mitsubishi Electric offers an Anti Allergy Enzyme Filter with the power to remove harmful microbes such as bacteria\*, viruses, dust mites, and pollen. The enzymes destroy any germs caught in the filter, preventing them from working their way further inside the system.

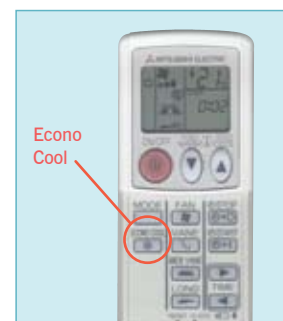
\* Confirmed by the Japan Spinners Inspecting Foundation  
Test Numbers JSIF-029220-1/JSIF-029220-2



## Energy Saving Features

### Econo Cool

This energy saving function can be selected in cooling mode. The temperature is automatically set to 2°C higher, while the airflow is switched to a swing flow. This airflow pattern feels cooler than constant airflow allowing reduced energy consumption.



### Inverter Technology

Inverter systems save energy by using a variable controlled Compressor. The output is controlled to only provide the energy required to keep the room to the set temperature. By reducing the output required less power is used and this substantially reduces power consumption. Inverter control not only saves you money but also keeps you more comfortable.

### Inverter Control - Allowing the Maximum Rated Heat Output for as long as required

Mitsubishi Electric Inverter Control will allow maximum rated heat output for as long as required before returning to nominal rated output. This guarantees comfort conditions in the shortest period of time. This feature is most important when the outdoor temperature reduces to below zero.

### Advanced Defrost Strategy to Guarantee Heating Performance at -15°C Outdoor Temperatures

When the outside temperature drops below zero all heat pumps must perform a "defrost cycle" to remove ice build up on their outdoor coils.

Mitsubishi Electric has developed an advanced defrost strategy to enable more efficient operation in extreme conditions.

Mitsubishi Electric Heat Pumps utilise a Fuzzy Logic software program, a form of Artificial Intelligence, that typically lasts between 3 to 5 minutes. This program measures and records temperatures and running times then uses this data to initiate the defrost cycle only when required.

# Inverter MSZ-FB Series

## DELUXE HIGH WALL

### Advanced Energy Saving “i-see Temperature Sensor” Plasma Duo Filter System

Introducing the state-of-the-art range of Mitsubishi Electric Deluxe Inverter Heat Pumps featuring the “i-see Sensor”. This advanced sensing technology reduces energy consumption by maintaining air temperature and controlling air movement to prevent excessive heating and cooling as well as unnecessary operation.

This range is also specifically designed to combat and reduce common household allergens and unpleasant odours, providing the optimal air quality that is vital for asthma and allergy sufferers.



The new advanced energy saving “i-see Sensor” searches out temperature differences and directs heat where you really need it.



Dimensions (W x D x H): 798 x 257 x 295mm



#### MSZ-FB25VA (MSZ-FB25VA + MUZ-FB25VA)

Cooling Capacity: 2.5 (1.1~3.5) kW  
Heating Capacity: 3.2 (1.5~5.5) kW



#### MSZ-FB35VA (MSZ-FB35VA + MUZ-FB35VA)

Cooling Capacity: 3.5 (1.1~4.1) kW  
Heating Capacity: 4.0 (1.5~6.0) kW



#### MSZ-FB50VA (MSZ-FB50VA + MUZ-FB50VA)

Cooling Capacity: 5.0 (0.8~5.8) kW  
Heating Capacity: 6.0 (0.9~7.8) kW



ENERGY STAR is the global mark of energy efficiency. All models in the MSZ-FB Series have been awarded the ENERGY STAR signaling that they meet strict energy efficiency guidelines. You can rest assured these will provide the highest level of energy efficiency without compromising on performance or quality.

### Plasma Duo Filter Systems

Ideal for Asthma and Allergy sufferers.

## Features

HEAT PUMP

R410A

DC  
Inverter

Cleaning-free,  
pipe reuse

Optional\*:  
PAR-21MAA  
7 Day Timer



For further information on these features please go to page 5 or visit: [www.mitsubishi-electric.co.nz](http://www.mitsubishi-electric.co.nz)



## Outdoor Units



**MUZ-FB25/35VA**  
Dimensions (WxDxH)  
800 x 285 x 550mm

**MUZ-FB50VA**  
Dimensions (WxDxH)  
840 x 330 x 850mm





MSZ-FB25/35/50



## Unique Energy Saving **i-see Sensor**, Provides Efficient Temperature Control.

Conventional heat pumps can't measure factors such as radiant heat or cold draughts that can affect room temperature. Some areas may therefore be warmer or cooler than others.

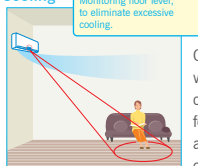
The advanced "i-see Sensor" measures room temperature at floor level as well as at the unit itself, resulting in greater temperature control. Unlike standard systems, the "i-see Sensor" automatically moves from side to side, searching out temperature disparities and directing airflow to specific areas where it is really needed.

Wide airflow of 150° from left to right (90° in cooling mode) ensures all corners of the room are kept at the optimal selected temperature. The "i-see Sensor" controls air temperature and air movement to prevent excessive heating or cooling and unnecessary operation. With "i-see Sensor" you are ensured total comfort while reducing energy wastage.

**"Area Setting" - for waste-free, energy-saving heating and cooling.**

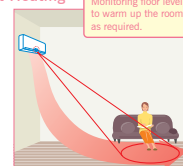
In AREA mode, efficient heating or cooling is directed where it is really needed - the right side, left side or the room as a whole. The sensor can also operate only on the selected side.

**In Cooling**



Cold air tends to drop to floor level, which is often the cause of over cooling. The i-see Sensor detects this foot-level temperature and adjusts the air outlet temperature to prevent over cooling.

**At Heating**



Warm air tends to rise up from the floor level, which often prevents that zone from warming up. The i-see Sensor detects this foot-level temperature and adjusts the air outlet flow to provide optimal temperatures.

## Plasma Duo Filter Systems

**Effective Range**

Big		The size of particle		Small	
Dust		Mold spores		Bacteria	
Filter removes		Plasma Air Purification function removes		Plasma Deodorisation function removes	
				Bad odours	
				Formaldehyde	

### Plasma Deodorisation

The Platinum Catalyst Deodorising Filter uses tiny holes as small as 1 nanometer on a surface of approximately 3,000m<sup>2</sup> to capture small odour-laden substances in the air and break them down using ozone generated in the Plasma Electrode Unit and the Platinum Catalyst contained in the filter.

Nearly twice the deodorising speed compared to previous model.

#### Plasma Deodorising Filter mechanism



- 1 Plasma Electrode Unit produces ozone.
- 2 Particles of odour releasing substances are absorbed.
- 3 Particles of odour releasing substances are decomposed by ozone.

The Plasma Duo Filter system keeps the air pure which is ideal for asthma and allergy sufferers. It has two plasma air purifying functions that work together to remove airborne dirt particles from micron to nano-size in scale.

The Plasma Electrode unit is attached inside this hole.



### Plasma Electrode Unit

A plasma electrode unit is mounted inside the product. Electro-discharge is used to generate ozone & plasma. The combination of ozone & plasma and two special filters makes a dynamic plasma air cleaning function.

### Plasma Air Purification

An Anti-allergen Electric Enzyme Filter utilises the combined power of static electricity charged in the filter and the plasma generated in the Plasma Electrode Unit to capture bacteria, pollen and other allergens in the air, which are then neutralised with the enzyme in the filter.

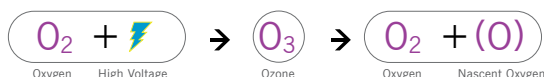
#### Plasma Air Purifying Filter mechanism



## Self Cleaning "Ozone Shower"

To ensure the coil is clean and free from impurities, the indoor coil will be automatically cleaned with Ozone after the unit has been operating in cooling mode.

Ozone (O<sub>3</sub>) is resolved gradually and naturally into oxygen (O<sub>2</sub>). This creates an extremely efficient cleaning process during which resolving "nascent Oxygen (O)" is produced. The nascent Oxygen strongly oxidises airborne particles to sterilise and deodorise the air.

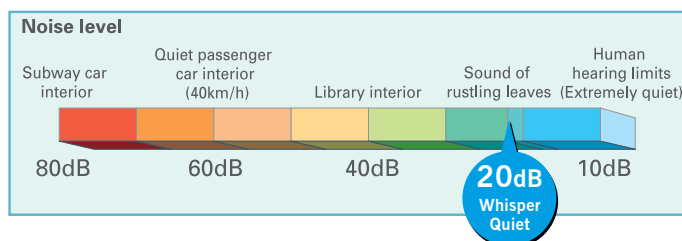


The consistency of ozone during ozone showering remains within health regulations. Inside of indoor unit 0.1ppm. Under the upper limit of acceptable range of ozone gas consistency at working environment. (Safety limit advised by Japan Society for Occupational Health) In the room 0.01ppm or less. Under the averaged consistency of ozone at the beach or forest areas.

## Whisper Quiet Operation

Mitsubishi Electric have a long standing reputation for offering some of the quietest models in the industry.

The Deluxe MSZ-FB range is no exception. At only 20 dB(A) on its lowest fan speed, the MSZ-FB25VA is super quiet. You want to feel the warmth, not hear it!



# Inverter MFZ-KA Series

## COMPACT FLOOR CONSOLE

### Thermostatically Controlled Upper and Lower Air Outlets New! Recessable Models Available!

This range is specifically designed to discreetly sit at floor level or can be recessed into the wall, making them ideal replacements for traditional floor mounted heating appliances such as night-store heaters.

The slim-line range features independently controllable upper and lower air outlets ensuring optimum air distribution to guarantee warm feet! A comprehensive deodorising and air purifying filter system will ensure healthier and cleaner air. All this is packed in to a compact floor design with the whisper quiet performance that you have come to expect from Mitsubishi Electric.



Dimensions (W x D x H): 700 x 200 x 600mm



#### MFZ-KA25VA (MFZ-KA25VA + SUZ-KA25VA)

Cooling Capacity: 2.5 (0.9~3.4) kW

Heating Capacity: 3.4 (0.9~5.1) kW



#### MFZ-KA35VA (MFZ-KA35VA + SUZ-KA35VA)

Cooling Capacity: 3.5 (0.9~3.9) kW

Heating Capacity: 4.0 (0.9~6.2) kW



#### MFZ-KA50VA (MFZ-KA50VA + SUZ-KA50VA)

Cooling Capacity: 4.8 (0.9~5.4) kW

Heating Capacity: 6.0 (0.9~7.9) kW

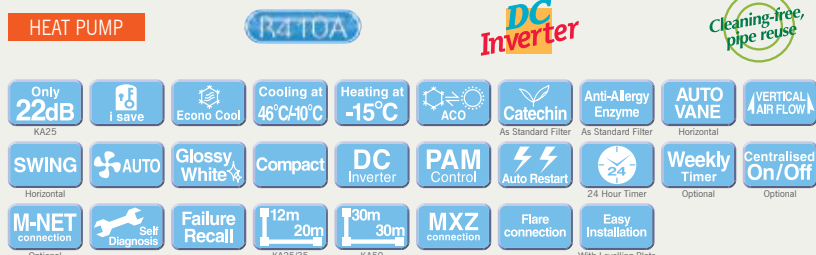


Ask in store for details

#### Recessed Models

- MFZ-KA25VA-RC
- MFZ-KA35VA-RC
- MFZ-KA50VA-RC

### Features



For further information on these features please go to page 5 or visit: [www.mitsubishi-electric.co.nz](http://www.mitsubishi-electric.co.nz)

### Outdoor Units



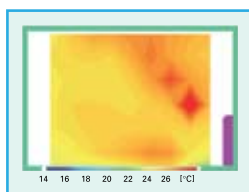
**SUZ-KA25/35VA**  
Dimensions (WxDxH)  
800 x 285 x 550mm

**SUZ-KA50VA**  
Dimensions (WxDxH)  
840 x 330 x 850mm



## Maximum Heat Output, Optimum Air Distribution

Perfect room temperatures at any time are achieved through dual top and bottom air flow with thermostatically controlled vanes to eliminate cool draughts whilst heating.



Mitsubishi Electric Inverter Control (unlike other brands) will allow maximum rated heat output indefinitely without the need to return to the nominal rated output. Optimum comfort conditions are guaranteed in the shortest period of time. This is vital when outdoor temperatures drop below freezing point or when the unit is first turned on.



## Unique Energy Saving Features

### "i-save" Mode

With this function, settings including temperature, fan speed, and airflow direction for both cooling and heating operation can be saved simultaneously. This function can be used to quickly return to your preferred settings. The "i-save" mode can be used as an energy saving function. If the stored "i-save" settings are 2-3°C cooler than the normal temperature setting when activated the room will be set to the cooler temperature. When the room is reoccupied the button can be pressed to return to the original settings.

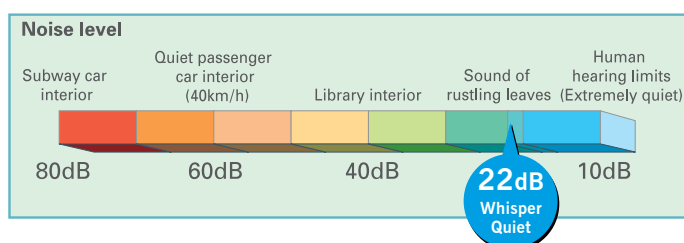
### Econo Cool

This energy saving function can be selected in cooling mode. The temperature is automatically set to 2°C higher, while the airflow is switched to a swing flow. This airflow pattern feels cooler than constant airflow allowing reduced energy consumption.



## Whisper Quiet Operation

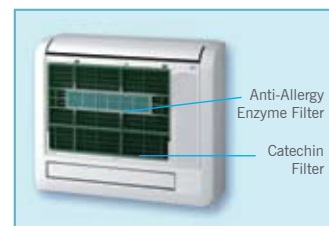
Mitsubishi Electric have a long standing reputation for offering some of the quietest models in the industry. The Deluxe MFZ-KA range is no exception. At only 22 dB(A) on its lowest fan speed, the MFZ-KA25 is super quiet. You want to feel the warmth, not hear it!



## Cleaner and Healthier Air

The combination of Catechin + Anti-Allergy Enzyme Filters ensure effective deodorisation, active filtering and the dramatic reduction of common allergens and bacteria. This is the key to cleaner and healthier air.

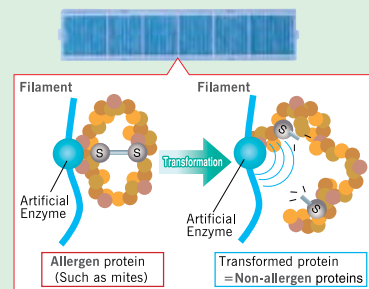
In addition to the "Catechin Filter" with deodorising effect, the "Anti-Allergy Enzyme Filter" traps dust mites and their droppings, pollen and other allergens on the filter filament, then decomposes them with artificial enzymes.\*2 What's more, a sterilising agent combats bacterial and viral effects, all in all supporting a cleaner and healthier air supply.



\*2 : Confirmed by the Japan Spinners Inspecting Foundation. Test numbers 007715-1, 007715-2. / Confirmed by Shinshu University.

## "Anti-Allergy Enzyme Filter" mechanism

1. Artificial enzyme catalyst on the filament traps the allergens.
2. The artificial enzyme catalyst helps the chemical reaction with Oxygen and severs the S-S bonds.\*3
3. Proteins with severed S-S bonds are no longer allergen proteins.



\*3 : Mites and other allergen protein consist of sulphur atoms (S) that have bonded together.

## Auto Change Over Function

When the desired temperature is reached, the system automatically switches between cooling and heating modes. The selected room temperature can be maintained without user intervention.

For example, when it's frosty in the early morning the unit will operate on heating to maintain a set point of 22°C in heating mode. When the sun rises the unit can switch to cooling to maintain the 22°C set temperature.

## Guaranteed Heating Performance to -15°C

Not all heat pumps perform when they are needed most. Our range is guaranteed to effectively provide heating on those cold nights or mornings when you really need it.

## Trouble-Free Installation and Maintenance

To install the indoor unit, position with our original installation plate then set the unit in place. Easy levelling work prevents any harm to wall surfaces. Generous pipe length, up to 30 metres\*4, eliminates worries about outdoor unit distance. Loaded with automatic diagnosis function, fault recall mode and other sophisticated aids, troubleshooting is immediate though problems are rare.



\*4 : MFZ-KA50VA

# Inverter SLZ-KA Series

## COMPACT CEILING CASSETTE

### The Perfect Size Attractive and Inconspicuous Choice of Infra Red or Wired

The SLZ-KA Series is perfect for both residential and small business applications as it offers energy efficient inverter technology and quiet operation.

The compact size of this range is ideal for installation in offices with ceiling tiles, while the lightweight design helps to make installation easier and more convenient.



Dimensions (W x D x H): 570 x 570 x 235 mm  
(Grille: 650 x 650 x 20mm)



#### SLZ-KA25VA (SLZ-KA25VA + SUZ-KA25VA)

Cooling Capacity: 2.5 (0.9~3.2) kW  
Heating Capacity: 3.0 (0.9~4.5) kW



#### SLZ-KA35VA (SLZ-KA35VA + SUZ-KA35VA)

Cooling Capacity: 3.5 (1.0~3.9) kW  
Heating Capacity: 4.0 (0.9~5.0) kW



#### SLZ-KA50VA (SLZ-KA50VA + SUZ-KA50VA)

Cooling Capacity: 4.6 (1.1~5.2) kW  
Heating Capacity: 5.0 (0.9~6.5) kW

#### Choice of controller

SLZ-KA~VAL : Includes Wireless Remote Controller.

SLZ-KA~VA : Includes Wired PAR-21MAA 7 Day Timer.

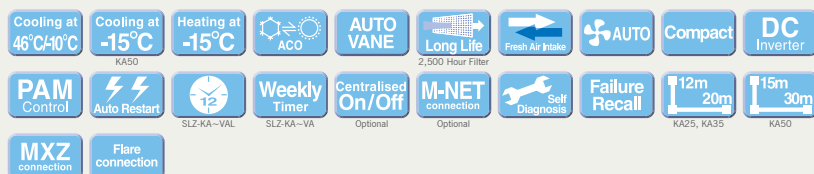
### Features

HEAT PUMP

R410A

DC  
Inverter

Cleaning-free,  
pipe reuse



For further information on these features please go to page 5 or visit: [www.mitsubishi-electric.co.nz](http://www.mitsubishi-electric.co.nz)

### Outdoor Units



#### SUZ-KA25/35VA

Dimensions (WxDxH)  
800 x 285 x 550mm

#### SUZ-KA50VA

Dimensions (WxDxH)  
840 x 330 x 850mm





Mitsubishi Electric Quality

## OPTIONAL AND SPARE PARTS

### Filters, Drain Sockets and Quick Clean Kit

#### Catechin Air Filter / Deodorising Filter

Part No.	Model
E12 D68 100	MSZ-GE25/35/50VA*
E12 534 100	MSZ-GA60/71/80VA*

#### Air Filter

Part No.	Model
E12 C86 100	MSZ-FB25/35/50VA (left)
E12 C85 100	MSZ-FB25/35/50VA (right)

#### Deodorising Filter

Part No.	Model
MAC-307FT-E	MSZ-FB25/35/50VA

#### Anti Allergy Enzyme Filter †

Part No.	Model
MAC-408FT-E	MSZ-GE25/35/50VA
MAC-415FT-E	MFZ-KA25/35/50VA
MAC-2300FT-E	MSZ-GA60/71/80VA
MAC-417FT-E	MSZ-FB25/35/50VA

† Can be used for about 1 year if washed regularly

#### Drain Socket

Part No.	Model
MAC-811DS	MUZ-GA60/70/80VA
E12 838 704	MUZ-FB25/35/50V
MAC-851DS	SUZ-KA25/35VA
E02 817 704	SUZ-KA50VA

#### Quick Clean Kit

Vacuum cleaner attachments for easy cleaning of your heat pump.

Part No.
MAC-093SS-E

#### \* NOTE:

One (1) filter supplied per pack (Part No.).  
Please order two (2) filters if required



MAC-093SS-E



DRAIN SOCKET

### Timer and Centralised Controllers

#### PAR-21MAA - 7 Day Wired Wall Timer (MA Remote Controller)

The optional wired remote controller (PAR-21MAA\*) has a weekly timer function enabling 8 separate pattern settings throughout a single day.

\* Requires MAC-397IF-E adaptor



PAR-21MAA

Part No.	Model
69144	MSZ-GE25/35/50VA, MSZ-GA60/71/80VA, MSZ-FB25/35/50VA, MFZ-KA25/35/50VA (Requires MAC-397IF-E)
69331A	MAC-397IF-E (MA & Contact Terminal Interface)

#### MAC-821SC-E

##### Centralised On/Off Remote Controller

An optional Centralised ON/OFF Controller (MAC-821SC-E\*) can also be incorporated to regulate all connected units in your home (and enabling ON/OFF selection and operation status confirmation from one single controller).

\* Requires MAC-397IF-E adaptor



MAC-821SC-E

Part No.	Model
69144	MSZ-GE25/35/50VA, MSZ-GA60/71/80VA, MSZ-FB25/35/50VA, MFZ-KA25/35/50VA, SLZ-KA25/35/50VA(L) (Requires MAC-397IF-E)
69331A	MAC-397IF-E (MA & Contact Terminal Interface)

#### AG-150 Central Controller

##### (With Touch Screen / Web Server Functions)

Mitsubishi Electric can also offer the advanced AG-150 central controller. The colour touch screen allows user friendly control of the entire air conditioning system. The system can also be accessed from a computer using a web browser.



AG-150

Features can be added to the Controller by installing Software packages to suit your application. These Software Packages include 365 day Time Scheduling, Auto Alarming via Email when a fault occurs and Power Logging for multiple tenancy applications. The controller also has external inputs and outputs for Fresh Air Fan Start up and Fire Shutdown control. All of these features give you a very universal controller.



Web Screen Views

MSZ-GE / GA SERIES HIGH WALL SPECIFICATIONS

TYPE				High Wall						
				Inverter						
				Heat Pump						
MODEL	MODEL NAME			MSZ-GE25VA	MSZ-GE35VA	MSZ-GE50VA	MSZ-GA60VA	MSZ-GA71VA	MSZ-GA80VA	
	INDOOR UNIT			MSZ-GE25VA	MSZ-GE35VA	MSZ-GE50VA	MSZ-GA60VA	MSZ-GA71VA	MSZ-GA80VA	
	OUTDOOR UNIT			MUZ-GE25VA	MUZ-GE35VA	MUZ-GE50VA	MUZ-GA60VA	MUZ-GA71VA	MUZ-GA80VA	
COOL	Capacity	Rated	[kW]	2.5	3.5	5.0	6.0	7.1	8.1	
		Min-Max	[kW]	1.1 - 3.5	1.4 - 3.9	1.4 - 5.4	0.9 - 6.7	0.9 - 8.3	0.9 - 8.8	
	Input	Rated	[kW]	0.56	1.01	1.64	1.95	2.44	3.2	
		Min-Max	[kW]	0.21 - 1.15	0.32 - 1.56	0.32 - 2.06	0.4 - 2.35	0.5 - 3.25	0.5 - 4.05	
	EER (COP)			4.46	3.47	3.05	3.08	2.91	2.53	
	Star Rating			6.0	6.0	4.5	4.0	4.0	2.5	
	Sound Level	In (Quiet-SHi*)	[dB(A)]	19 / 21 / 29 / 36 / 42	19 / 22 / 30 / 36 / 43	28 / 33 / 38 / 44 / 49	(Low-Hi*) 32 / 40 / 54	(Low-Hi*) 33 / 40 / 54	(Low-Hi*) 33 / 40 / 54	
		Out	[dB(A)]	46	47	54	53	53	53	
	Rated Current (In / Out)			[A]	2.9	4.7	7.4	8.83	11	14.3
	Max. Current			[A]	7.4	8.6	13.0	16	16	16
Air Volume In (SHi*)			[L/s]	188.3	211.7	251.7	(Hi*) 287	(Hi*) 287	(Hi*) 287	
HEAT	Capacity	Rated	[kW]	3.2	4.0	5.8	6.8	8.1	9.0	
		Min-Max	[kW]	1.3 - 4.5	1.4 - 4.8	1.4 - 7.2	0.9 - 8.1	0.9 - 9.6	0.9 - 11.1	
	Input	Rated	[kW]	0.73	1.03	1.65	1.99	2.5	3.1	
		Min-Max	[kW]	0.26 - 1.20	0.34 - 1.55	0.32 - 2.49	0.4 - 2.8	0.5 - 3.2	0.5 - 3.9	
	COP			4.38	3.88	3.52	3.42	3.24	2.9	
	Star Rating			6.0	6.0	5.0	4.0	4.0	3.0	
	Sound Level	In (Quiet-SHi*)	[dB(A)]	19 / 21 / 29 / 36 / 42	19 / 22 / 30 / 36 / 43	28 / 33 / 37 / 43 / 48	(Low-Hi*) 32 / 40 / 54	(Low-Hi*) 33 / 40 / 54	(Low-Hi*) 33 / 40 / 54	
		Out	[dB(A)]	48	48	56	55	55	55	
	Rated Current (In / Out)			[A]	3.8	4.8	7.4	8.93	11.2	14.1
	Max. Current			[A]	7.4	8.6	13.0	16	16	16
Air Volume In (SHi*)			[L/s]	191.7	191.7	241.7	(Hi*) 287	(Hi*) 287	(Hi*) 287	
Controller				Infra Red Remote (Optional: PAR-21MAA)			Infra Red Remote (Optional: PAR-21MAA)			
Power Supply	(Powered from outdoor unit)			230 / Single Phase / 50 Hz			230 / Single Phase / 50 Hz			
INDOOR	Dimensions (WxDxH)		[mm]	798 x 232 x 295			1,100 x 258 x 325			
	Weight		[kg]	10			16			
OUTDOOR	Dimensions (WxDxH)		[mm]	800 x 285 x 550	800 x 285 x 550	840 x 330 x 850	840 x 330 x 850	840 x 330 x 850	840 x 330 x 850	
	Weight		[kg]	30	30	54	53	58	58	
	Sound Level		[dB(A)]	46 - 48	47 - 48	54 - 56	53 - 55	53 - 55	53 - 55	
EXT. PIPE	Diameter (Liquid/Gas)		[mm]	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88	9.52 / 15.88	9.52 / 15.88	
	Max. Length/Height†		[m]	20 / 12	20 / 12	30 / 15	30 / 15	30 / 15	30 / 15	
	Chargeless		[m]	7	7	7	7	7	7	
OPERATION RANGE Outdoor	Cooling		[°C]	-10 / +46	-10 / +46	-10 / +46	-10 / +43	-10 / +43	-10 / +43	
	Heating		[°C]	-15 / +24	-25 / +24	-15 / +24	-15 / +24	-15 / +24	-15 / +24	

MSZ-FB SERIES DELUXE HIGH WALL SPECIFICATIONS

TYPE				Deluxe High Wall			
				Inverter			
				Heat Pump			
MODEL	MODEL NAME			MSZ-FB25VA	MSZ-FB35VA	MSZ-FB50VA	
	INDOOR UNIT			MSZ-FB25VA	MSZ-FB35VA	MSZ-FB50VA	
	OUTDOOR UNIT			MUZ-FB25VA	MUZ-FB35VA	MUZ-FB50VA	
COOL	Capacity	Rated	[kW]	2.5	3.5	5.0	
		Min-Max	[kW]	1.1 - 3.5	1.1 - 4.1	0.8 - 5.8	
	Input	Rated	[kW]	0.53	0.89	1.60	
		Min-Max	[kW]	0.26 - 0.97	0.26 - 1.12	0.26 - 2.45	
	EER (COP)			4.76	3.93	3.13	
	Star Rating			6.0	6.0	5.0	
	Sound Level	In (Low-SHi*)	[dB(A)]	20 / 29 / 36 / 42	20 / 29 / 36 / 43	29 / 39 / 45 / 52	
		Out	[dB(A)]	46	47	54	
	Rated Current (In / Out)			[A]	2.6	4.1	7.1
	Max. Current			[A]	10	10	16
Air Volume In (SHi*)			[L/s]	187	187	247	
HEAT	Capacity	Rated	[kW]	3.2	4.0	6.0	
		Min-Max	[kW]	1.5 - 5.5	1.5 - 6.0	0.9 - 7.8	
	Input	Rated	[kW]	0.66	0.90	1.64	
		Min-Max	[kW]	0.48 - 1.90	0.48 - 1.90	0.48 - 2.95	
	COP			4.89	4.44	3.66	
	Star Rating			6.0	6.0	5.5	
	Sound Level	In (Low-SHi*)	[dB(A)]	20 / 29 / 36 / 43	21 / 29 / 36 / 44	27 / 37 / 43 / 50	
		Out	[dB(A)]	46	50	56	
	Rated Current (In / Out)			[A]	3.1	4.1	7.3
	Max. Current			[A]	10	10	16
Air Volume In (SHi*)			[L/s]	202	208	247	
Controller				Infra Red Remote (Optional: PAR-21MAA)			
Power Supply	(Powered from outdoor unit)			230 / Single Phase / 50 Hz			
INDOOR	Dimensions (WxDxH)		[mm]	798 x 257 x 295			
	Weight		[kg]	12			
OUTDOOR	Dimensions (WxDxH)		[mm]	800 x 285 x 550	800 x 285 x 550	840 x 330 x 850	
	Weight		[kg]	36	36	55	
	Sound Level		[dB(A)]	46	47 - 50	54 - 56	
EXT. PIPE	Diameter (Liquid/Gas)		[mm]	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	
	Max. Length/Height†		[m]	20 / 12	20 / 12	30 / 15	
	Chargeless		[m]	7	7	7	
OPERATION RANGE Outdoor	Cooling		[°C]	-10 / +46	-10 / +46	-10 / +46	
	Heating		[°C]	-15 / +24	-15 / +24	-15 / +24	



MSZ-GE25/35/50VA



MSZ-GA60/71/80VA



MSZ-FB25/35/50VA

# MFZ-KA SERIES COMPACT FLOOR CONSOLE SPECIFICATIONS

TYPE				Compact Floor Console			
				Inverter			
				Heat Pump			
MODEL	MODEL NAME			MFZ-KA25VA	MFZ-KA35VA	MFZ-KA50VA	
	INDOOR UNIT			MFZ-KA25VA	MFZ-KA35VA	MFZ-KA50VA	
	OUTDOOR UNIT			SUZ-KA25VA	SUZ-KA35VA	SUZ-KA50VA	
COOL	Capacity	Rated	[kW]	2.5	3.5	4.8	
		Min-Max	[kW]	0.9 - 3.4	0.9 - 3.9	0.9 - 5.4	
	Input	Rated	[kW]	0.58	1.09	1.55	
		Min-Max	[kW]	0.19 - 0.94	0.19 - 1.25	0.19 - 1.98	
	EER (COP)			4.31	3.21	3.1	
	Star Rating			6.0	4.5	4.5	
	Sound Level	In (Low-SHi*)	[dB(A)]	22 / 27 / 32 / 37	23 / 28 / 33 / 38	32 / 35 / 39 / 43	
		Out	[dB(A)]	46	47	51 - 53	
	Rated Current (In / Out)			[A]	2.80	5.0	7.0
	Max. Current			[A]	6.4	9.4	16.2
Air Volume In (SHi*)			[L/s]	145	152	178	
HEAT	Capacity	Rated	[kW]	3.4	4.0	6.0	
		Min-Max	[kW]	0.9 - 5.1	0.9 - 6.2	0.9 - 7.9	
	Input	Rated	[kW]	0.84	1.10	1.86	
		Min-Max	[kW]	0.19 - 1.91	0.19 - 2.24	0.19 - 2.81	
	COP			4.07	3.64	3.23	
	Star Rating			6.0	5.0	4.0	
	Sound Level	In (Low-SHi*)	[dB(A)]	22 / 27 / 32 / 37	25 / 28 / 33 / 38	32 / 35 / 39 / 44	
		Out	[dB(A)]	46	48	53 - 55	
	Rated Current (In / Out)			[A]	4.0	5.0	8.5
	Max. Current			[A]	6.4	9.4	16.2
Air Volume In (SHi*)			[L/s]	152	158	197	
Controller				Infra Red Remote (Optional: PAR-21MAA)			
Power Supply	(Powered from outdoor unit)			230 / Single Phase / 50 Hz			
INDOOR	Dimensions (WxDxH)		[mm]	700 x 200 x 600			
	Weight		[kg]	14			
OUTDOOR	Dimensions (WxDxH)		[mm]	800 x 285 x 550	800 x 285 x 550	840 x 330 x 850	
	Weight		[kg]	33	37	53	
	Sound Level		[dB(A)]	46	47 - 48	51 - 55	
EXT. PIPE	Diameter (Liquid/Gas)		[mm]	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	
	Max. Length/Height†		[m]	20 / 12	20 / 12	30 / 30	
	Chargeless		[m]	7	7	7	
OPERATION RANGE Outdoor	Cooling		[°C]	-10 / +46	-10 / +46	-10 / +43	
	Heating		[°C]	-15 / +24	-15 / +24	-15 / +24	



MFZ-KA25/35/50VA

# SLZ-KA VA(L) SERIES COMPACT CEILING CASSETTE SPECIFICATIONS

TYPE				High Wall			
				Inverter			
				Heat Pump			
MODEL	MODEL NAME			SLZ-KA25VA(L)	SLZ-KA35VA(L)	SLZ-KA50VA(L)	
	INDOOR UNIT			SLZ-KA25VA(L)	SLZ-KA35VA(L)	SLZ-KA50VA(L)	
	OUTDOOR UNIT			SUZ-KA25VA	SUZ-KA35VA	SUZ-KA50VA	
COOL	Capacity	Rated	[kW]	2.5	3.5	4.6	
		Min-Max	[kW]	0.9 - 3.2	1.0 - 3.9	1.1 - 5.2	
	Input	Rated	[kW]	0.69	1.06	1.63	
		Min-Max	[kW]	0.25 - 1.00	0.27 - 1.33	0.49 - 2.13	
	EER (COP)			3.62	3.30	2.82	
	Star Rating			6.0	5.0	3.5	
	Sound Level	In (Low-Hi*)	[dB(A)]	28 / 31 / 37	29 / 33 / 38	30 / 34 / 39	
		Out	[dB(A)]	46	47	51 - 53	
	Rated Current (In / Out)			[A]	3.40	4.90	7.40
	Max. Current			[A]	8.16	9.18	16.0
	Air Volume In (Hi*)			[L/s]	167	183	183
HEAT	Capacity	Rated	[kW]	3.0	4.0	5.0	
		Min-Max	[kW]	0.9 - 4.5	0.9 - 5.0	0.9 - 6.5	
	Input	Rated	[kW]	0.83	1.10	1.55	
		Min-Max	[kW]	0.17 - 1.36	0.25 - 1.46	0.39 - 3.36	
	COP			3.61	3.64	3.23	
	Star Rating			5.0	5.0	4.0	
	Sound Level	In (Low-Hi*)	[dB(A)]	28 / 31 / 37	29 / 33 / 38	30 / 34 / 39	
		Out	[dB(A)]	46	48	53 - 55	
	Rated Current (In / Out)			[A]	4.0	5.1	7.0
	Max. Current			[A]	8.16	9.18	16.0
	Air Volume In (Hi*)			[L/s]	167	183	183
Controller				~VAL: Infra Red Remote, ~VA: PAR-21MAA Wired Controller			
Power Supply	(Powered from outdoor unit)			230V / Single Phase / 50 Hz			
INDOOR	Dimensions (WxDxH)		[mm]	570 x 570 x 235 (Panel: 650 x 650 x 20)			
	Weight		[kg]	16.5 (Panel: 3)			
OUTDOOR	Dimensions (WxDxH)		[mm]	800 x 285 x 550	800 x 285 x 550	840 x 330 x 850	
	Weight		[kg]	33	37	53	
	Sound Level		[dB(A)]	46	47 - 48	51 - 55	
EXT. PIPE	Diameter (Liquid/Gas)		[mm]	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	
	Max. Length/Height†		[m]	20 / 12	20 / 12	30 / 30	
	Chargeless		[m]	7	7	7	
OPERATION RANGE Outdoor	Cooling		[°C]	-10 / +46	-10 / +46	-15 / +43	
	Heating		[°C]	-15 / +24	-15 / +24	-15 / +24	



SLZ-KA25/35/50VA(L)

## \*Sound Level:

(Quiet-Hi\*) Quiet / Low / Medium / High / Super High.  
 (Low-SHi\*) Low / Medium / High / Super High.  
 (Low-Hi\*) Low / Medium / High.  
 (SHi = Super High).

## Note:

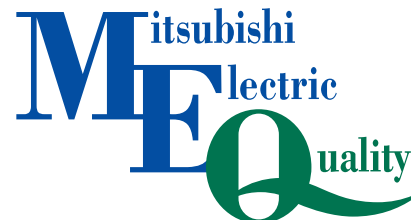
1.Rating Conditions (AS / NZS 3823).  
 Cooling – Indoor: 27°C DB, 19°C WB. Outdoor: 35°C DB  
 Heating – Indoor: 20°C DB Outdoor: 7°C DB, 6°C WB.  
 Refrigerant piping length (one way): 5 m  
 2.Guaranteed operating range: see specifications table.  
 3.Dry function will not work when the room temperature is below 13°C

Colour: Heat pump units shown may not be colour accurate, please ensure you view an actual unit for colour matching.

† Maximum length is inclusive of height differential, i.e. (20/12) means the pipe can be 12m high and 8m across for a total length of 20m.

## YOUR GUARANTEE OF EXCELLENCE

This emblem is your assurance of the very best in technology and quality as it represents Mitsubishi Electric's continuing efforts in making our air conditioners the industry standard. Every Mitsubishi Electric air conditioner is a product of painstaking research, relentless testing, and a resolute determination to improve upon vital performance characteristics. As a result, our air conditioners have become more durable, less costly to operate, quieter, easy on installation and maintenance, and better able to distribute air evenly throughout any type of interior. This kind of commitment to quality enables our products to create remarkably pleasant environments that will ultimately make your life more comfortable.



## 5 YEAR WARRANTY

Mitsubishi Electric Air Conditioners / Heat Pumps come with a full 5 year parts, labour and compressor warranty. Warranty conditions apply. Please be aware of these conditions prior to purchasing this product.

## THE BEST QUALITY YOU CAN RELY ON

Our quality assurance program guided by our stringent Quality Policy ensures confidence in all phases of the development process from design and manufacture, to the finished product.

## BUYER BEWARE

The brand Mitsubishi Electric is not to be confused with the brand Mitsubishi Heavy Industries. Both brands may share the 3 red diamonds but are manufactured in completely different factories to completely different specifications.



All units line tested



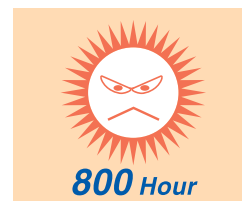
Sound test



Performance test



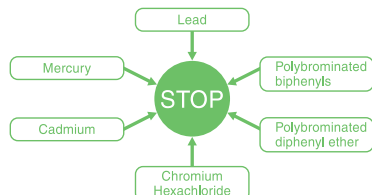
Endurance test



Heat stress test

## COMFORT MEETS ECOLOGY

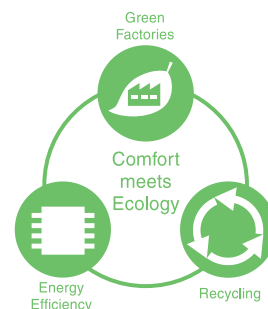
In every phase of air conditioner production, we have the earth in mind.



### RoHS Standard

#### Six chemical substances we can do without

Mercury, cadmium and lead are among six hazardous substances, found in some products, restricted or banned by the European Union as of July 1, 2006. Mitsubishi Electric has developed a system to ensure quick and early compliance with the EU directive, and we are introducing a similar system to all our Asian operations as well.



Certificate Number  
49385



Certificate Number  
EC97J1227

Mitsubishi Electric Shizuoka Works acquired ISO 9001 certification under Series 9000 of the International Standard Organisation (ISO) based on a review of quality warranties for the production of air conditioning equipment. The plant also acquired environmental management system standard ISO 14001 certification.

For further information contact:



### Black Diamond Technologies Ltd

#### AUCKLAND

Unit 1, 4 Walls Road  
PO Box 12-726, Penrose  
Phone (09) 526 9347, Fax (09) 526 9369

#### WELLINGTON (HEAD OFFICE)

1 Parliament Street  
PO Box 30-772, Lower Hutt  
Phone (04) 560 9147, Fax (04) 560 9133

#### CHRISTCHURCH

Suite 2, Level 1, 37 Mandeville Street  
PO Box 1604, Christchurch  
Phone (03) 341 2837, Fax (03) 341 2838

Distributed by B D T

[www.mitsubishi-electric.co.nz](http://www.mitsubishi-electric.co.nz)

New publication effective July 2009. All features and specifications are subject to change and amendment at anytime. Where specifications are critical to design or pre-build we advise that you seek confirmation of accuracy from our product management team on (04) 560 9100.