



MITSUBISHI ELECTRIC

Heat Pump Catalogue



HEAT PUMPS
2013

Sshhhh...

they're very, very quiet.



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There's a lot to consider when choosing heating for your home and many factors that may help you decide. Heat pumps are endorsed by government agencies and consumer advocacy groups as one of the most efficient heating forms available. They also offer features other heating options cannot, like dehumidifying, air filtration, safety and ease of use.

Why choose Mitsubishi Electric? p.5-6

A heat pump is an investment in your comfort for years to come so it makes sense to invest in the best. Mitsubishi Electric Heat Pumps are designed to heat more effectively and quietly. They're engineered with heating in mind, not cooling like most others. That means they're better equipped to warm your home.

Single room heat pump options p.7-16



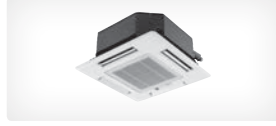
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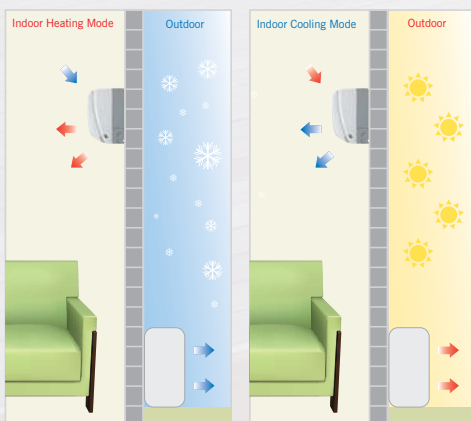
Whole home heating options p.17-18

If you're wanting ultimate total home comfort to heat or cool multiple rooms then these heat pump systems will cater to your needs. Options range from multi room systems (one outdoor heat pump running multiple indoor units) to discreet ducted systems.

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How Do Heat Pumps Work?

Heat pumps do not create heat; they simply move available heat from one place to another. An outside unit absorbs warmth from the surrounding air and transfers it into your home. As outside temperatures drop, your heat pump must work harder to transfer the same amount of heat. As NZ's best performing heat pumps in the cold, we guarantee superior heating down to -15°C . All the while achieving the Energy Star® efficiency rating, a global mark of efficiency awarded to Mitsubishi Electric's entire range of single room high wall heat pumps.



Why Choose A Heat Pump?

When heating your home there are many factors to consider including ongoing running costs, ease of use and ultimately your comfort. Endorsed by government agencies and consumer advocacy groups alike, heat pumps are known to be one of the most efficient forms of heating available. In addition, they offer higher comfort levels and advanced features that other heating appliances cannot.

Unique Benefits of Heat Pumps



Energy Efficiency

Heat pumps offer the highest levels of energy efficiency with the ability to provide 3-4kW of heat energy for every 1kW used.



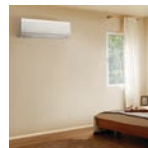
Lowest Running Costs

The more energy efficient a heating system is, the cheaper it is to run. Heat pumps offer the cheapest kW/h heating cost available.



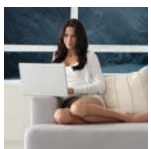
Precise Temperature Control

Heat pumps allow you to set the desired room temperature to the exact degree, whereas other appliances may continue to heat resulting in an uncomfortably hot room. Timer options allow the freedom to operate the heat pump in harmony with your daily schedule.



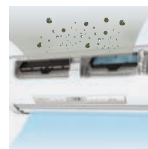
Unobtrusive Heating

Heat pumps come in a range of styles. The most popular is wall mounted models which can be placed discreetly on a wall so they don't use valuable floor space.



Convenient Comfort

Heat pumps move warm air throughout the room, meaning you no longer need to rearrange your furniture around your heat source. Heat pumps also allow comfort at a touch of a button – there's no manual tasks such as cutting or stacking firewood.



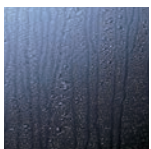
Improved Air Quality

Heat pumps are fitted with filtration and deodorisation systems - perfect for asthma and allergy sufferers.



Safety

Heat pumps are the perfect option when you have children and pets, as there are no hot surfaces they are the safest heating option.



Humidity Control

Heat pumps are also able to dehumidify in cooling or "dry" modes, enabling your heat pump to combat excess moisture such as condensation and humidity.



Cooling in Summer

Heat pumps ensure your comfort all year round, with the push of a button they can be switched to cooling mode, keeping the home nice and cool during those long hot summer days and nights.

Choose a heat pump that's designed to heat

While all heat pumps offer benefits over other heating options, Mitsubishi Electric Heat Pumps have a distinct advantage. Why? Because while most heat pumps are actually designed to cool, ours start with heating in mind. Naturally, our systems will also keep you cool in summer. But by focusing on warmth, Mitsubishi Electric Heat Pumps are better at doing what New Zealanders want them to do... keep you warm in winter. Read on to see why you should choose a Mitsubishi Electric Heat Pump...

Why Choose Mitsubishi Electric?

Just Quietly – It's Your Satisfaction That Means The Most



A heat pump is an investment in comfort for years to come, make sure you invest in the best.

When you invest in a heat pump, you need to know it will do what you want it to do – keep you warm in winter and cool in summer. At Mitsubishi Electric we engineer our heat pumps to be whisper quiet, stylish and deliver superior heating performance suited to New Zealand's harsh winter conditions.

We couldn't be prouder to be named the winner of Canstar Blue's 2013 Customer Satisfaction survey for Heat Pumps. As well as a perfect five star rating for overall satisfaction Mitsubishi Electric was awarded five stars for reliability, functionality, quietness and energy efficiency.

You can trust in the superior quality of Mitsubishi Electric to provide you energy efficient comfort for years to come.

New Zealand's Best Low Temperature Performance

Why Design To Heat?

When it gets cold outside, a heat pump designed to cool needs to work overtime to produce heat and so its performance is reduced. A heat pump designed for cooling can disappoint when you need it most – when the temperature drops. We design for New Zealand homes, and therefore we design predominantly to heat. The result is year-round reliability and performance.

Superior Heating, Guaranteed

All our heat pumps are engineered for superior heating. You'll stay snug no matter how cold it is outside and we guarantee this, even in outdoor temperatures as low as -15°C.

Intelligent Defrost

All our heat pumps are fitted with intelligent defrost technology to ensure that you get the best performance out of your heat pump when it gets cold.

When the temperature drops below zero, all heat pumps have to perform a "defrost cycle" to remove ice build up on the outdoor coils. This can mean that your heat pump will temporarily stop operating or will blow out cooler air.

Mitsubishi Electric has developed an advanced version of this, using Fuzzy Logic to learn, measure and record temperatures and running times. This data is then used to ensure defrost cycles are as fast, efficient and far apart as possible – so you can heat your home faster.

HyperCore® High Performance Heat Pumps

No other heat pump in New Zealand is guaranteed to perform at its peak from +7°C to -15°C. Our HyperCore Heat Pumps will not lower their heating performance even when it is snowing outside. So you can be assured that you will be kept snug throughout winter. HyperCore is also highly recommended for humid and high altitude areas.



To learn more about our HyperCore Series turn to page 13

The Only Heat Pumps Rated 5 Stars For Quietness

Unbeatable Quietness

In Canstar Blue's most recent customer satisfaction survey, respondents were asked to rate their satisfaction with the operating noise levels of their heat pumps. Mitsubishi Electric was the only heat pump brand to receive a full five star rating for quiet performance.

We recognise that noise affects comfort, so we constantly work to make our heat pumps as quiet as possible. Our GE Series High Wall Heat Pump indoor units are New Zealand's quietest starting from just 19dBA*, indoor sound level. Because, we want you to feel the warmth, not hear it.

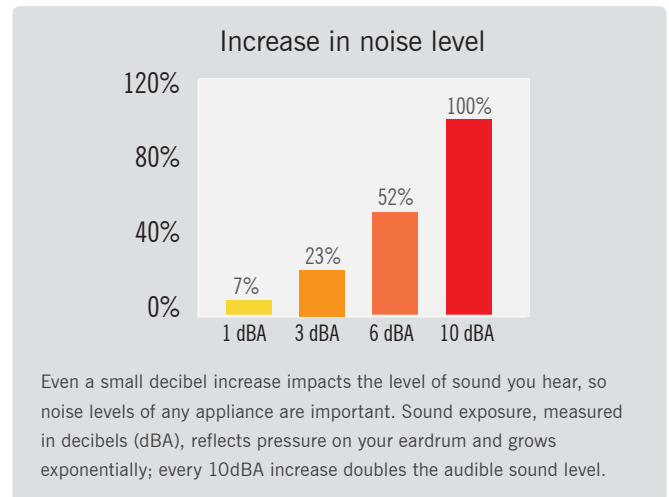
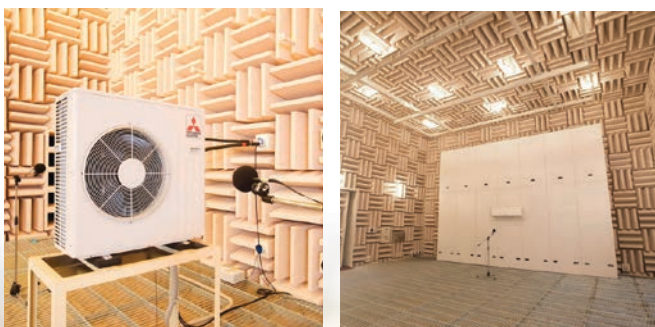
*MSZ-GE25/33 on lowest fan speed

Quietness On All Fan Speeds

Some manufacturers are happy for their heat pumps to operate quietly only on their lowest fan setting. Our heat pumps are designed to work differently, giving you quietly superior comfort on all our heat pumps on all fan speeds.

How Are Mitsubishi Electric Heat Pumps Quieter?

Our quest for quietness begins at factory level. Our heat pumps are subjected to rigorous testing at our confidential sound testing facility and sound ratings are then independently certified.



Unique Quietness Technology

Fan Design

Our larger fan diameter enables the motor to run at a slower speed while maintaining the same air volume. Smaller fans have to spin faster to move more air; creating more noise as air passes over the fan tips.

Coil Design

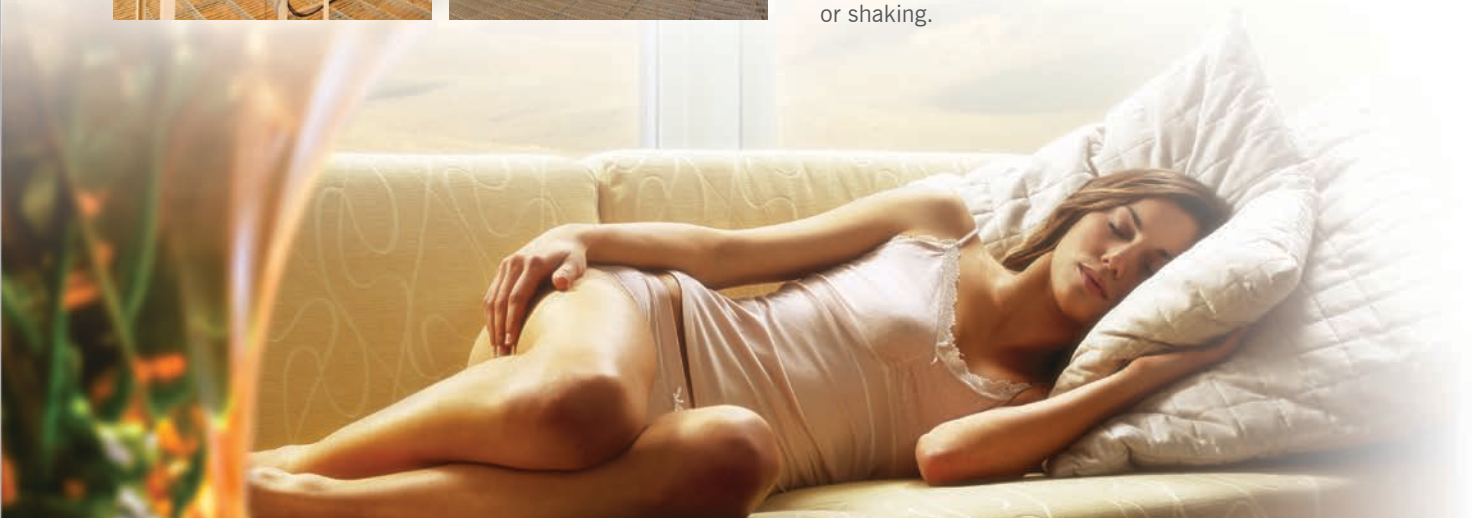
The larger surface area of our coils enables the indoor unit to maintain a higher temperature. So, less air needs to be passed across the coil to achieve the same indoor temperature and less air, means less noise.

Airflow

Our larger air inlet duct allows air to flow freely, reducing noise as it leaves the heat pump. Think of whistling; it is pretty hard to whistle when your mouth is open wide, the same principle applies here.

Indoor Unit

Our indoor unit casing has been designed to be robust so that minimal noise is created when operating i.e. no rattling or shaking.





Classic GE Series

High Wall Mounted

Starting from barely a whisper, the Classic GE Series includes New Zealand's quietest indoor heat pumps ever! The classic, neutral design will suit any home and they are super efficient with all GE models earning the Energy Star® mark.

Small Room



Dimensions (WxDxH): 798x232x295mm

MSZ-GE25VA

Heating Capacity: 3.2 kW (min 1.3kW~max 4.5 kW)

Heating efficiency - COP: 4.52 / ACOP: 4.31

Cooling Capacity: 2.5 kW (min 1.1kW~max 3.5kW)

Cooling efficiency - EER: 4.51 / AEER: 4.25

MSZ-GE33VA

Heating Capacity: 4.0 kW (min 1.4kW~max 4.8kW)

Heating efficiency - COP: 3.94 / ACOP: 3.82

Cooling Capacity: 3.3 kW (min 1.4kW~max 3.9kW)

Cooling efficiency - EER: 3.83 / AEER: 3.69

Medium Room



Dimensions (WxDxH): 798x232x295mm

MSZ-GE42VA

Heating Capacity: 5.4 kW (min 1.4kW~max 6.0kW)

Heating efficiency - COP: 3.62 / ACOP: 3.54

Cooling Capacity: 4.2 kW (min 0.9kW~max 4.8kW)

Cooling efficiency - EER: 3.43 / AEER: 3.34

MSZ-GE50VA

Heating Capacity: 5.8 kW (min 1.4kW~max 7.2kW)

Heating efficiency - COP: 3.63 / ACOP: 3.55

Cooling Capacity: 5.0 kW (min 1.4kW~max 5.4kW)

Cooling efficiency - EER: 3.12 / AEER: 3.05

Large Room



Dimensions (WxDxH): 1100x238x325mm

MSZ-GE60VA

Heating Capacity: 6.8 kW (min 2.0kW~max 9.3kW)

Heating efficiency - COP: 3.82 / ACOP: 3.75

Cooling Capacity: 6.0 kW (min 1.5kW~max 7.5kW)

Cooling efficiency - EER: 3.55 / AEER: 3.49

MSZ-GE71VA

Heating Capacity: 8.1 kW (min 2.2kW~max 9.9kW)

Heating efficiency - COP: 3.81 / ACOP: 3.75

Cooling Capacity: 7.1 kW (min 2.4kW~max 8.7kW)

Cooling efficiency - EER: 3.44 / AEER: 3.39

MSZ-GE80VA

Heating Capacity: 9.0 kW (min 2.2kW~max 11.1kW)

Heating efficiency - COP: 3.57 / ACOP: 3.53

Cooling Capacity: 8.0 kW (min 2.4kW~max 9.2kW)

Cooling efficiency - EER: 3.16 / AEER: 3.12

For more about COP and EER see page 24

Features: Classic GE Series See page 21 for more information

Whisper Quiet Operation

7 Day Programmable Timer
(GE60/71/80 only)

Energy Star® Mark

i-save Mode

Econo Cool

Anti Allergy Enzyme Filter

Advanced Filtration

Guaranteed heating at -15°C

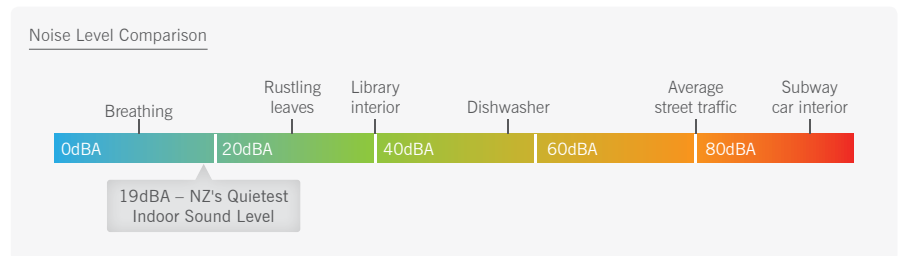
Auto Change Over Function

Wide & Long Airflow
(GE60/71/80 only)



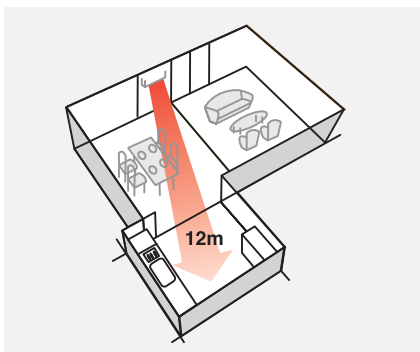
New Zealand's Quietest Heat Pumps

Starting from barely a whisper, our Classic GE Series allows you to feel the warmth, not hear it. The GE25 and GE33 indoor units start from a hushed 19dBA on their lowest fan speed, making them New Zealand's quietest heat pumps ever.



7-Day Programmable Timer

Allowing you to program up to four settings for each day of the week, you can come home to comfort without having to manually adjust the temperature. Perfect for anyone with a busy lifestyle, the 7 day controller is a great way to regulate your energy usage without compromising on comfort. Our 7 Day Controller is available on the larger GE60/71/80 models only.



Wide and Long Airflow (GE60/71/80)

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.





Designer Series

High Wall Mounted

Created to suit even those with the most discerning style. With elegant, clean lines the Designer Series is available in a glossy black, matte silver or classic white – complementing your home’s decor and existing appliances.

Small Room



Dimensions (WxDxH): 895 x 195 x 299mm

MSZ-EF25VEW/B/S

Heating Capacity: 3.2 kW (min 1.1kW~max 4.2kW)

Heating Efficiency – COP: 4.782 / ACOP: 4.758

Cooling Capacity: 2.5 kW (min 1.2kW~max 3.4kW)

Cooling Efficiency – EER: 4.579 / AEER: 4.551

MSZ-EF35VEW/B/S

Heating Capacity: 4.0 kW (min 1.8kW~max 5.5kW)

Heating Efficiency – COP: 4.306 / ACOP: 4.290

Cooling Capacity: 3.5 kW (min 1.4kW~max 4.0kW)

Cooling Efficiency – EER: 3.905 / AEER: 3.891

Medium Room



Dimensions (WxDxH): 895 x 195 x 299mm

MSZ-EF42VEW/B/S

Heating Capacity: 5.4 kW (min 1.4kW~max 6.3kW)

Heating Efficiency – COP: 3.815 / ACOP: 3.806

Cooling Capacity: 4.2 kW (min 0.9kW~max 4.6kW)

Cooling Efficiency – EER: 3.291 / AEER: 3.282

MSZ-EF50VEW/B/S

Heating Capacity: 5.8 kW (min 1.6kW~max 7.5kW)

Heating Efficiency – COP: 3.552 / ACOP: 3.545

Cooling Capacity: 5.0 kW (min 1.4kW~max 5.4kW)

Cooling Efficiency – EER: 3.111 / AEER: 3.105

IF Design Award



The iF product design award is annually conferred by the iF International Forum Design. Every year the award attracts more than 2,000 product entries, which are judged by renowned experts, and only the best receive the iF seal of outstanding design quality. The Mitsubishi Electric Designer Series has been awarded the iF product design award for its simple and elegant design. The clean, flat surfaces and bevelled edges allow it to blend in discreetly with modern interiors.

Features: Designer Series

Whisper Quiet Operation

7 Day Controller

Nano Platinum Filter

Energy Star® Mark

Guaranteed heating at -15°C

Stylish Flat Panel Design

Optional Anti Allergy Enzyme Filter



The range includes a classic white option with a stylish flat panel design. This model fits seamlessly with neutral decors.



The smooth 'stainless steel' look unit is ideally suited to kitchens which contain stainless steel appliances.



The sleek 'Black Diamond' matches perfectly with living room electronics such as televisions or dark wall coverings.



7-Day Programmable Timer

All Designer Series indoor units feature a built in weekly timer, allowing you to program up to four settings for each day of the week, you can come home to comfort without having to manually adjust the temperature. Perfect for anyone with a busy lifestyle, the 7-day controller is a great way to regulate your energy usage without compromising on comfort.



Quiet Operation

Designer Series indoor units feature a "Silent mode" fan speed setting that provides quiet operation as low as 21dBA. This means that you will feel the warmth, not hear it.

Filter Systems

Designer indoor units make use of two types of filter. The Nano Platinum Filter generates stable antibacterial and deodourising effects, while the optional Electro Static Anti-Allergy Enzyme Filter uses enzyme catalysts to filter allergens.



Energy Star®

Energy Star® is the global mark of energy efficiency. All models in the Designer Series have been awarded the Energy Star® mark; signalling they meet strict energy efficiency standards.



Classic KA Series

Floor Mounted

Designed to sit discreetly at floor level, our floor consoles are ideal for replacement of traditional floor mounted heat sources such as night-store heaters or fireplaces.

Small Room



Dimensions (WxDxH): 700x200x600mm

MFZ-KA25VA

Heating Capacity: 3.4 kW (min 0.9kW~max 5.1kW)

Heating efficiency - COP: 3.99 / ACOP: 3.83

Cooling Capacity: 2.5 kW (min 0.9kW~max 3.4kW)

Cooling efficiency - EER: 4.19 / AEER: 3.96

MFZ-KA35VA

Heating Capacity: 4.0 kW (min 0.9kW~max 6.2kW)

Heating efficiency - COP: 3.811 / ACOP: 3.696

Cooling Capacity: 3.5 kW (min 0.9kW~max 3.9kW)

Cooling efficiency - EER: 3.489 / AEER: 3.372

Medium Room



Dimensions (WxDxH): 700x200x600mm

MFZ-KA50VA

Heating Capacity: 6.0 kW (min 0.9kW~max 7.9kW)

Heating efficiency - COP: 3.339 / ACOP: 3.278

Cooling Capacity: 4.8 kW (min 0.9kW~max 5.4kW)

Cooling efficiency - EER: 3.278 / AEER: 3.205

HyperCore® Upgrade

If you experience cold temperatures and/or high humidity over winter then you should consider upgrading your floor console heat pump to a HyperCore®. Still the only heat pump available guaranteed to provide the same amount of heat regardless of how cold the outdoor temperature becomes. For more information on HyperCore® see pages 13-14.

HYPERCORE®

For more about COP and EER see page 24

Features: Classic KA Series See page 21 for more information

NZ's Quietest Floor Console, from 22dBa

HyperCore® Upgrade Available

Guaranteed heating at -15°C

Anti Allergy Enzyme Filter

Healthy Catechin Filter

Auto Change Over Function

Horizontal Airflow

i-save Mode

Econo Cool



Optimum Heat Distribution

Mitsubishi Electric's compact floor console range ensures perfect room temperatures are achieved at all times. Thermostatically controlled dual upper and lower vanes provide ultimate comfort and eliminate draughts while heating. Mitsubishi Electric Inverter Control allows optimum comfort conditions to be achieved in the shortest period of time. This is vital when outdoor temperatures drop below freezing, or when the unit is first turned on.



Superior Design

Compact and slim-line, Mitsubishi Electric's Classic KA Series has been designed to ensure they will be discreet and unobtrusive addition to any interior. A versatile solution, floor consoles are favoured as a suitable replacement of older floor-mounted heating devices. From only 22dBA* indoor sound level, this range offers total comfort while still delivering the whisper quiet performance that you have come to expect from Mitsubishi Electric.

**(MFZ-KA25VA, lowest fan setting).*



Cleaner, Healthier Air

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

In addition to the deodorising effect of the Catechin Filter, the Anti-Allergy Enzyme Filter traps dust mites and their droppings, pollen and other airborne allergens on the filter filament, which decomposes them using artificial enzymes. A sterilising agent also acts to combat bacterial and viral effects, all combining to support a cleaner, healthier air supply.



HyperCore® Series

High Wall Mounted & Floor Mounted

Designed specifically for New Zealand's winter conditions, HyperCore® Heat Pumps provide New Zealand's best heating performance, guaranteed. Advanced filtration features allow you to enjoy deodorised, purified air, perfect for asthma sufferers.

Small Room



Dimensions (WxDxH): 798x257x295mm

MSZ-FB35VAH

Heating Capacity: 4.0 kW (min 1.3kW~max 6.5kW)
Heating efficiency - COP: 4.554 / ACOP: 4.42

Cooling Capacity: 3.5 kW (min 0.8kW~max 4.1kW)
Cooling efficiency - EER: 4.062 / AEER: 3.94

Medium Room



Dimensions (WxDxH): 798x257x295mm

MSZ-FB50VAH

Heating Capacity: 6.0 kW (min 0.9kW~max 8.2kW)
Heating efficiency - COP: 3.750 / ACOP: 3.68

Cooling Capacity: 5.0 kW (min 0.8kW~max 5.8kW)
Cooling efficiency - EER: 3.25 / AEER: 3.19

Medium Room



Dimensions (WxDxH): 700x200x600mm

MFZ-FB50VAH

Heating Capacity: 5.4 kW (min 0.9kW~max 7.9kW)
Heating efficiency - COP: 3.546 / ACOP: 3.45

Cooling Capacity: 4.8 kW (min 0.9kW~max 5.4kW)
Cooling efficiency - EER: 3.10 / AEER: 3.02

The **HYPERCORE**® Guarantee

Superior heating performance guaranteed, regardless of outdoor temperatures. The only heat pump guaranteed to produce it's fully rated heating capacity right down to -15°C.

For more about COP and EER go to page 24

Features: HyperCore® Wall Mounted *See page 21 for more information*

HyperCore® Heating Guarantee

Whisper Quiet Operation

i-see Sensor

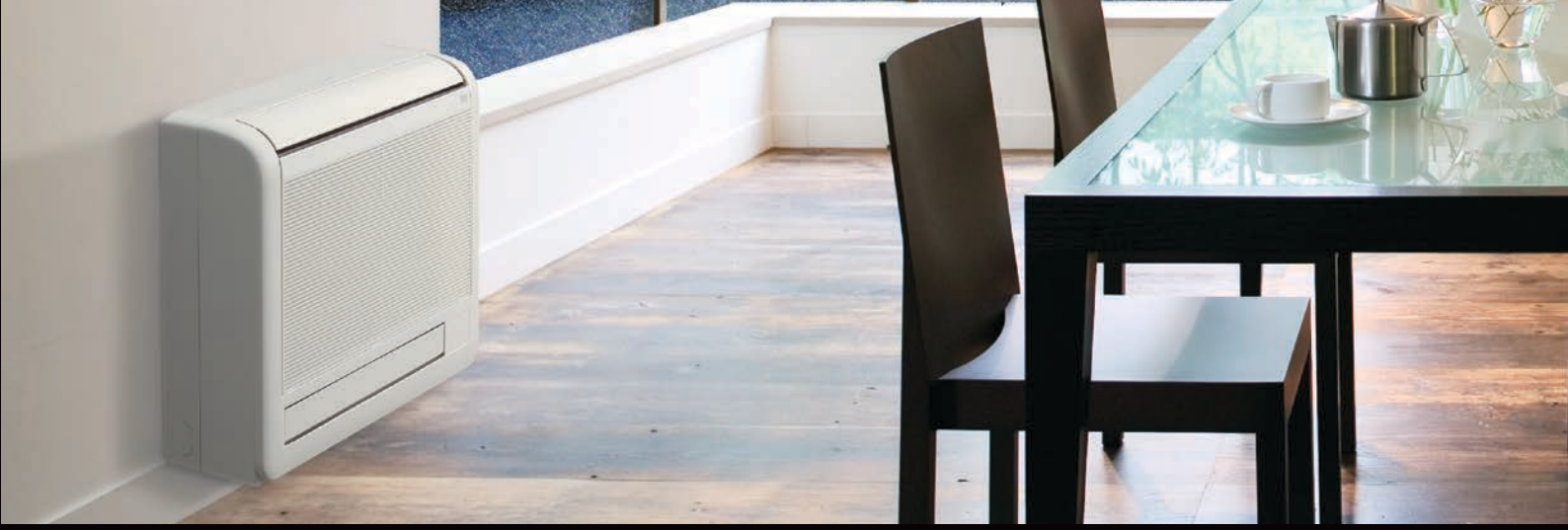
Econo Cool

Plasma Duo Filter System

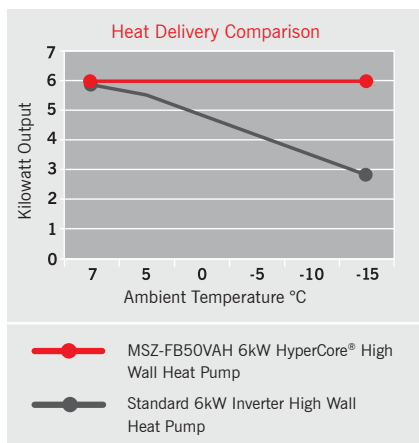
Self-Cleaning Ozone Shower

Guaranteed heating at -25°C

Auto Change Over Function



HyperCore® Technology



Low Temperature Performance

Unlike other heat pump systems which produce less heat when the outside temperature drops, the HyperCore Series will perform at its peak down to -15°C and has guaranteed heating down to -25°C. HyperCore is the only heat pump that can guarantee this kind of performance. HyperCore is ideal for; locations where temperatures fall below zero, high altitude areas, high humidity areas or if you simply want the best heating performance available.

As the graph (left) shows, even though both heat pumps are rated to provide 6kW of heat, their performance differs greatly as the temperature drops. While the standard heat pump produces less heat, the HyperCore FB-50VAH model continues to deliver the full 6kW you paid for.



HyperCore Compressor

HyperCore Heat Pumps are fitted with a 'heating caulking compressor' unique to Mitsubishi Electric. The compressor is extremely efficient in its construction and performance. This compressor moves more vapour volume for less energy input and allows the compressor to maintain efficiency and higher revolutions.



HyperCore Advanced Defrost Logic

When temperatures drop below zero degrees ice will build up on the outdoor unit of any heat pump. How the heat pump reacts to this determines how effective it will be in providing heat to your home. To remove the ice build up the heat pump will need to go into "defrost" mode and during this time the heat pump will not be delivering heat into your home. HyperCore's defrost logic has been fine tuned to extend the period in between defrost periods and optimise its heating performance.

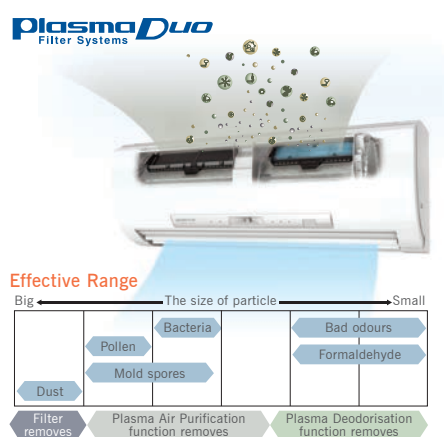
Features: HyperCore® Floor Mounted *See page 21 for more information*

HyperCore® Heating Guarantee	Whisper Quiet Operation	i-save Mode	Econo Cool
Healthy Catechin Filter	Horizontal Airflow	Auto Change Over Function	



HyperCore® Additional Features

High Wall Mounted Models



Air Purification and Allergen Removal

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.

Plasma Deodorisation - The Platinum Catalyst Deodorising Filter uses tiny holes as small as 1 nanometer on a surface of approximately 3,000m² to capture small odour-laden substances in the air and break them down.

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 in the filter.

Advanced Energy Saving i-see Sensor

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.

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.

Advanced Energy Saving Sensor

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 "i-see Sensor" measures room temperature at floor level as well as at the unit itself, resulting in greater temperature control. 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.

The "i-see Sensor" controls air temperature and air movement to prevent excessive heating or cooling and unnecessary operation. Ensuring 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.



Cassette SLZ Series

Ceiling Mounted

Compact and ultra quiet, our range of ceiling cassettes are equipped with four way airflow and cutting edge control. They offer you the flexibility to keep your wall and floor space free without compromising on comfort.

Small Room



Unit Dimensions (WxDxH): 570x570x235mm
Grille Panel Dimensions (WxDxH): 650x650x20mm

SLZ-KA25VAQ/L

Heating Capacity: 3.2 kW (min 0.9kW ~ max 4.5kW)
Heating efficiency - COP: 3.737 / ACOP: 3.621

Cooling Capacity: 2.5 kW (min 0.9kW ~ max 3.2kW)
Cooling efficiency - EER: 3.641 / AEER: 3.502

SLZ-KA35VAQ/L

Heating Capacity: 4.0 kW (min 0.9kW ~ max 5.0kW)
Heating efficiency - COP: 3.665 / ACOP: 3.576

Cooling Capacity: 3.5 kW (min 1.0kW ~ max 3.9kW)
Cooling efficiency - EER: 3.396 / AEER: 3.305

Medium Room



Unit Dimensions (WxDxH): 570x570x235mm
Grille Panel Dimensions (WxDxH): 650x650x20mm

SLZ-KA50VAQ/L

Heating Capacity: 5.0 kW (min 0.9kW ~ max 6.5kW)
Heating efficiency - COP: 3.142 / ACOP: 3.089

Cooling Capacity: 4.6 kW (min 1.1kW ~ max 5.2kW)
Cooling efficiency - EER: 3.014 / AEER: 2.961

Versatile Control

The cassette range comes equipped with your choice of either an infra-red remote with 12-hour timer, or a wall-mounted wired controller with 7-day timer.

Air-Cleaning Filtration

The built-in filter removes dust and contaminants, keeping air fresh at all times. Maintenance is as simple as vacuuming the filter.

For more about COP and EER go to page 24

Features: Cassette SLZ Series See page 21 for more information

Whisper Quiet Operation

Guaranteed heating at -10°C

Auto Change Over Function

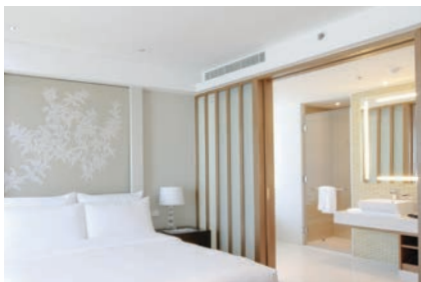
Fresh Air Intake



Concealed Systems

Whole Home Heating

Concealed heat pumps ensure versatility and ease of installation. Specifically designed for easy installation in ceiling spaces, concealed heat pumps are ideal for large residences or offices. Available for installation in either a bulkhead ceiling space, or as a ducted system, these are the ultimate solution for unobtrusive heating as they are largely hidden from view with only air grilles visible.



Compact Concealed (SEZ Range)

This range features compact, ultra-quiet concealed indoor units designed for heating single rooms in a discreet and quiet way. At only 200mm high these slim-line units are ideal for tight installation spaces, such as lowered ceilings (or bulkheads). A built-in air filter removes dust and other particles to keep air clean. Whisper quiet operation ensures you will feel the warmth, not hear it! There is also the option to intake fresh air from outside.



Ducted System (PEA Range)

For powerful performance without compromising elegance or style, this range compliments the room environment and offers a vast line-up of performance functions. Hidden completely from view with only subtle grilles showing, ducted units are installed in the roof cavity and ducting is used to connect multiple duct grilles to provide heating and cooling to each room. Installation possibilities are endless, using flexible duct design and a wide range of variations in airflow options, ducted systems provide greater freedom in the placement of indoor units throughout the home.



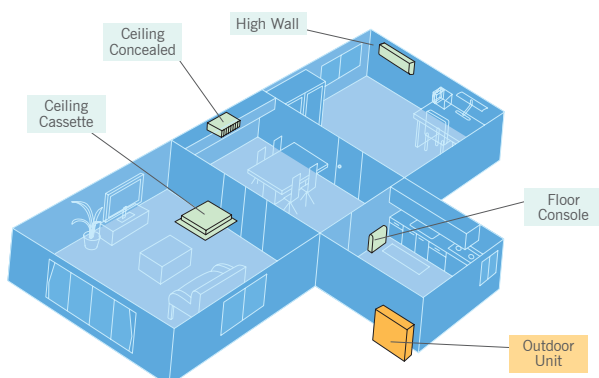
Multi Room Systems

Whole Home Heating

Connect multiple indoor units to a single outdoor unit. This system gives you the freedom to select the indoor model best suited to each and every room in your home. Multi room systems are designed to allow multiple indoor units of varying capacity and type to be connected to just one outdoor unit, enhancing exterior aesthetics by reducing the number of outdoor units required.

Benefits of a Multi Room System

If more than one room requires heating and cooling, a multi room system may be right for you. This system allows the indoor units chosen to reflect the specific needs of each room. For example, a whisper quiet high wall could be selected for a bedroom, while a floor console could be used to replace a fireplace in the living room. The indoor units selected will be powered by just one outdoor unit, lowering the overall capital cost and increasing the energy efficiencies achieved.



Quiet Operation (Silent Mode)

Mitsubishi Electric has applied a Silent Mode to their multi room units, ensuring outdoor sound levels can remain as low as 44dBA while operating. This can be vital when installing in urban residences with nearby neighbouring properties.



Selecting the Right System

Correct sizing of a Mitsubishi Electric Multi Room System matches the energy load of the indoor units desired with the appropriate multi room outdoor. Your Mitsubishi Electric Authorised Installer will be able to guide you through this process while recommending the optimum type of heat pump for each room, ensuring the best solution for your whole home.

Controls



Making the most of your Heat Pump starts with controls that allow you to experience comfort levels tailored to exactly match your preferences.

As heat pump features continue to become more advanced, controls which allow simplicity, accuracy and ease of use have been developed to maximise the benefits to users. Hand held remotes, wired wall controllers and advanced, internet-connectable central controllers not only provide a wide variety of control options, but also allow usage programming to optimise operating efficiencies.

Handheld Remotes (Standard Inclusions)



24 Hour Controller

Featuring a 24 hour timer, this simple handheld remote features an easy to read display, and a variety of operating modes at the touch of a button. The timer feature allows users to set stop/start operation on a daily basis. This remote comes standard on all models except the GE 60/71/80 and Designer Series (which include a 7-Day Controller as standard).



7 Day Controller

Allowing you to program up to four settings for each day of the week, you can come home to comfort without having to manually adjust the temperature. Perfect for anyone with a busy lifestyle, the 7 day controller is a great way to regulate your energy usage without compromising on comfort. This 7 day controller is available on the larger GE Series models (GE60/71/80) and Designer Series models only.

Wall Mounted Controllers (Optional Upgrade)



PAR-21 7 Day Controller

The Wired 7 Day Timer is an optional controller which can be connected to all Mitsubishi Electric systems listed in this brochure. The PAR-21 controller allows you to program up to 8 stop/start patterns per day for up to 7 days at a time. Other features include a variety of operation control functions, operation lock and multi-language display.



PAR-31 Deluxe 7 Day Controller

Containing all the features of the PAR-21 controller, the Deluxe PAR-31 also offers the following at the touch of a button: LCD backlit screen, large, easy to read display and mode view for both icon and word display.

Central Controllers (Optional Upgrade)



AT-50A 5" LCD Touch Screen

Able to control up to 50 units and featuring both weekly and daily timer functions, the AT-50 is a cost effective solution for large domestic systems.



AG-150A 9" LCD Touch Screen

Controls up to 150 units, monitoring operation via a web browser or personal computer via LAN or telephone line. Featuring a large, backlit high-resolution touch panel, the display is highly visible and easy to read. The outer panel is also available in black. The AG-150 also has the ability to monitor power consumption, humidity, fan speed and airflow among many others.

Features Glossary

Features Checklist

Model	Wall Mounted				Floor Mounted		Ceiling Mounted
	GE Series Sml - Med	GE Series Large	HyperCore®	Designer Series	Compact	HyperCore®	
Energy Saving							
DC Inverter + PAM Control	✓	✓	✓	✓	✓	✓	✓
i-see Sensor			✓				
Area Setting			✓				
i-save	✓	✓		✓	✓	✓	
Econo Cool	✓	✓	✓	✓	✓	✓	
Superior Comfort							
Whisper Quiet Operation	✓	✓	✓	✓	✓	✓	✓
Quiet Fan Speed	✓	✓		✓			
Auto Vane	✓	✓	✓	✓	✓	✓	✓
Vertical Airflow					✓	✓	
Vertical Vane		✓	✓				
Swing Vertical Vane		✓	✓				
Swing Horizontal Vane	✓	✓	✓	✓	✓	✓	✓
Wide Airflow		✓					
Long Airflow		✓					
Designed To Heat							
Guaranteed Performance	✓	✓	✓	✓	✓	✓	
HyperCore® Guarantee			✓			✓	
Fresh Air							
Plasma Duo Filter System			✓				
Nano Platinum Filter		✓		✓			
Healthy Catechin Filter	✓				✓	✓	
Anti Allergy Enzyme Filter	✓	✓	✓	✓	✓	✓	
Self Cleaning Ozone Shower			✓				
Sophisticated Design							
Flat Panel Style	✓	✓	✓	✓			
Compact Size	✓		✓	✓	✓	✓	✓
Pure White Finish	✓	✓	✓	✓	✓	✓	
Glossy Black				✓			
Matte Silver				✓			
Convenience							
24 Hour Timer on Remote	✓	✓	✓	✓	✓	✓	✓
7 Day Hand Held Timer		✓		✓			
Wide Range Cooling Temp	✓	✓	✓	✓	✓	✓	✓
Auto Change Over	✓	✓	✓	✓	✓	✓	✓
Powerful Mode		✓					
Auto Restart	✓	✓	✓	✓	✓	✓	✓
Installation & Maintenance							
Failure Recall Function	✓	✓	✓	✓	✓	✓	✓
Simple Flare Connection	✓	✓	✓	✓	✓	✓	✓
Long Length Piping	✓	✓	✓	✓	✓	✓	✓
Connection to multi room systems	✓	✓		✓	✓		✓
Self Diagnosis Function	✓	✓	✓	✓	✓	✓	✓
Quick Clean Body	✓	✓	✓				
Pipe Re-Use Technology	✓	✓	✓	✓	✓	✓	

Unique Energy Saving Features

DC Inverter with PAM Control

Inverter technology matches compressor speed to your indoor heating or cooling requirements, unlike older “fixed-speed” types which simply alternated between on and off. PAM (Pulse Amplitude Modulation) provides higher efficiency within the inverter by controlling the amount of power drawn.

“i-see” Sensor

The “i-see” sensor automatically seeks out and corrects temperature differences by directing airflow to specific areas. This provides total comfort with reduced energy loss. More on p.15.

Area Setting

For waste-free, energy saving heating and cooling, area mode works in conjunction with the “i-see” sensor to direct heating where it is needed most.

“i-save” Mode

Saves preferred settings including temperature, fan speed and airflow direction for both heating and cooling operation, at the touch of a button. In heating, a lower set-back temperature of 10°C can be selected when the room is unoccupied*. This means that less energy is used returning to the desired temperature when the room is reoccupied.

*Applicable to GE & EF Series models only

Econo Cool

This is an energy saving function for cooling during summer. The system raises the temperature by 2°C, and airflow is switched to a swing mode, creating a breeze effect. In this mode, the unit uses less energy to provide an overall cooling effect.

Designed To Heat

Guaranteed Low Temperature Performance

All Mitsubishi Electric Heat Pumps are guaranteed to provide heating at low temperatures. Our heat pumps supply heating right down to -15°C. (Excludes cassettes, guaranteed down to -10°C)

HyperCore® Guarantee

Superior heating performance guaranteed, regardless of outdoor temperatures. The only Heat Pump guaranteed to produce it's fully rated heating capacity right down to -15°C and guaranteed to heat down to -25°C. More on p. 14.

Superior Comfort

Quiet Fan Speed

Mitsubishi Electric Heat Pumps are designed to be very, very quiet. Constant development to reduce sound levels has resulted in our high wall indoor units starting at an amazingly quiet 19dBA. Many manufacturers claim low sound levels only on their lowest fan setting. Mitsubishi Electric Heat Pumps are designed to be quiet on all fan speeds. The introduction of a “Quiet” Fan Speed provides truly quiet operation without compromising on comfort levels.

Swing Vanes

In this mode, the vanes will swing automatically, ensuring the heat reaches all areas. In cooling, this also creates a “breeze” effect.

Wide & Long Airflow

Allows the airflow direction to be adjusted according to your preference at the touch of a button. Wide mode allows airflow to be directed at a wider range from left to right. Long mode extends airflow to up to 12 metres to reach even the furthest point of large living rooms or open plan areas.

A Breath Of Fresh Air

Plasma Duo Filter System

See p.15

Nano Platinum Filter

Incorporates platinum particles into the filter material to provide semi-permanent antibacterial and deodorising properties, eliminating airborne bacteria while improving air quality.

Healthy Catechin Filter

Catechin is a compound found in green tea. It has both antiviral and antioxidant qualities, as well as excellent deodorising properties.

Anti Allergy Enzyme Filter

Enzymes contained within the filter combat allergens, with the power to remove harmful microbes such as bacteria, viruses, dust mites and pollen.

Self Cleaning Ozone Function

To ensure the coil within the indoor unit is kept clean and free from impurities the unit will perform a self-clean operation using Ozone to both sterilise and deodorise.

Sophisticated Design

Pure White Flat Panel Style

Using understated, clean lines in a pure white finish, our high wall units are sure to fit seamlessly into any interior.

Compact Size

Mitsubishi Electric understands that a heat pump needs to be unobtrusive as well as quietly efficient. Our heat pumps have been designed to be as compact as possible, while ensuring maximum heating and cooling performance is not compromised.

Convenience

24 Hour Timer on Remote

A feature of the infra-red remote controllers provided with our heat pumps, which allows the unit to be pre-programmed to start up or turn off according to your schedule on a daily basis. Programming your heat pump to start up before you wake or return home means you can enjoy total comfort with ease.

7 Day Hand Held Timer

The 7-day timer function stores up to four settings (per 24 hour period) including start/stop operation and temperature settings on a weekly basis, eliminating the need to reset the timer daily. More on p. 8.

Auto Change Over

The system will automatically switch between heating and cooling once the desired temperature is reached, to maintain the room temperature without user intervention. For example, on a frosty morning the unit will operate in heating mode to maintain a room temperature of 21°C. Once the sun rises and begins to warm the room, the unit can switch to cooling to maintain the 21°C set temperature.

Powerful Mode

The automatic, one-touch Powerful Mode ensures faster heating or cooling by producing more airflow than even the “Super High” fan speed setting. A room can be heated or cooled to the desired temperature in less than 15 minutes before the unit automatically returns to the regular setting.

Installation and Maintenance

Easy Installation

A multitude of features including long length piping, simple flare connections and installation plates have been incorporated into our heat pump systems to ensure installation is as simple as possible for the installer.

Pipe Re-Use Technology

Unique to Mitsubishi Electric, our heat pumps are able to replace old R22 systems of any brand with efficient R410a refrigerant using existing pipe work, reducing wasted materials as well as installation time.

Self Diagnosis Function

Loaded with automatic diagnosis functions, fault or failure recall mode and other sophisticated aids, troubleshooting is immediate though problems are rare.

Multi Room Connection

Almost all of the indoor components of the systems listed in this brochure are available for connection to Multi Room Outdoor units. For system designs to suit entire homes, you are free to select from a variety of indoor unit styles, not limited to one type.

Failure Recall Function

Operational faults or failures are recorded by the unit, making it easy for technicians to confirm the heat pump’s fault history.

“Quick Clean” Indoor Units

A removable cover panel allows for quick and easy cleaning, and no special tools are required to open the airflow vents in order to clean inside the unit. Our exclusive “Quick Clean Kit” can connect to any household vacuum cleaner for thorough cleaning of the heat exchanger.

Specifications

QUICK GLANCE	TYPE		Wall Mounted Heat Pumps															
	SERIES		MSZ-GE Series (Small - Medium Room)				MSZ-GE Series (Large Room)			HyperCore®								
	MODEL		MSZ-GE25	MSZ-GE33	MSZ-GE42	MSZ-GE50	MSZ-GE60	MSZ-GE71	MSZ-GE80	MSZ-FB35	MSZ-FB50							
	INDOOR UNIT		MSZ-GE25VA	MSZ-GE33VA	MSZ-GE42VA	MSZ-GE50VA	MSZ-GE60VA	MSZ-GE71VA	MSZ-GE80VA	MSZ-FB35VA	MSZ-FB50VA							
	OUTDOOR UNIT		MUZ-GE25VA	MUZ-GE33VA	MUZ-GE42VA	MUZ-GE50VA	MUZ-GE60VA	MUZ-GE71VA	MUZ-GE80VA	MUZ-FB35VAH	MUZ-FB50VAH							
	COOL		2.5kW 4.51 EER 19 dBA*	3.3kW 3.83 EER 19 dBA*	4.2kW 3.43 EER 26 dBA*	5.0kW 3.1 EER 28 dBA*	6.0kW 3.55 EER 29 dBA*	7.1kW 3.43 EER 30 dBA*	8.0kW 3.16 EER 30 dBA*	3.5kW 4.06 EER 20 dBA*	5.0kW 3.25 EER 29 dBA*							
	HEAT		3.2kW 4.52 COP 19 dBA*	4.0kW 3.94 COP 19 dBA*	5.4kW 3.61 COP 26 dBA*	5.8kW 3.63 COP 28 dBA*	6.8kW 3.82 COP 29 dBA*	8.1kW 3.80 COP 30 dBA*	9.0kW 3.57 COP 30 dBA*	4.0kW 4.55 COP 21 dBA*	6.0kW 3.75 COP 27 dBA*							
	ENERGY STAR®																	
	ENERGY RATING																	
	PREVIOUS ENERGY RATING		6.0	6.0	6.0	6.0	5.5	5.0	4.5	4.0	6.0	6.0	6.0	4.5	5.0	6.0	6.0	5.0
COOL	Capacity	Rated	[kW]	2.5	3.3	4.2	5.0	6.0	7.1	8.0	3.5	5.0						
		Min-Max	[kW]	1.1 - 3.5	1.4 - 3.9	0.9 - 4.8	1.4 - 5.4	1.5 - 7.5	2.4 - 8.7	2.4 - 9.2	0.8 - 4.1	0.8 - 5.8						
	Input	Rated	[kW]	0.56	0.91	1.26	1.64	1.76	2.13	2.56	0.89	1.60						
		Min-Max	[kW]	0.21 - 1.15	0.32 - 1.56	0.16 - 1.94	0.32 - 2.06	0.28 - 2.38	0.57 - 3.37	0.57 - 3.58	0.16 - 1.12	0.26 - 2.45						
	EER			4.51	3.83	3.43	3.12	3.55	3.43	3.16	4.06	3.25						
	AEER			4.25	3.69	3.34	3.05	3.48	3.38	3.12	3.94	3.19						
	Star Rating			4.0	2.5	2.0	1.5	2.0	2.0	1.5	3.0	1.5						
	Sound Level	In (Quiet)	[dBA]	19	19	26	28	29	30	30	-	-						
		In (low-SHI*)	[dBA]	21-29-36-42	22-30-36-43	30-35-40-46	33-38-44-49	37-41-45-49	37-41-45-49	37-41-45-49	20-29-36-43	29-39-45-52						
		Out (SPL*)	[dBA]	46	47	50	54	55	55	55	47	54						
Rated Current (In+Out)	[A]	2.9	4.3	5.8	7.4	7.8	9.4	11.3	4.1	7.1								
Max. Current	[A]	7.4	8.6	10	13.0	14.5	16.6	16.6	10.5	16								
Air Volume In (SHI*)	[L/s]	188.3	211.7	211.7	251.7	305.0	298.3	298.3	187	247								
HEAT	Capacity	Rated	[kW]	3.2	4.0	5.4	5.8	6.8	8.1	9.0	4.0	6.0						
		Min-Max	[kW]	1.3 - 4.5	1.4 - 4.8	1.4 - 6.0	1.4 - 7.2	2.0 - 9.3	2.2 - 9.9	2.2 - 11.1	1.3 - 6.5	0.9 - 8.2						
	@ -15 °C	[kW]	**	**	**	**	**	**	**	4.0	6.0							
	Input	Rated	[kW]	0.73	1.03	1.54	1.65	1.77	2.11	2.54	0.90	1.64						
		Min-Max	[kW]	0.26 - 1.20	0.34 - 1.55	0.27 - 2.04	0.32 - 2.49	0.46 - 2.94	0.52 - 3.25	0.52 - 3.65	0.40 - 2.50	0.48 - 3.14						
	COP			4.52	3.94	3.61	3.63	3.82	3.80	3.57	4.55	3.75						
	ACOP			4.31	3.81	3.53	3.55	3.75	3.74	3.52	4.42	3.68						
	Star Rating			4.0	3.0	2.5	2.5	3.0	2.5	2.5	4.0	2.5						
	Sound Level	In (Quiet)	[dBA]	19	19	26	28	29	30	30	-	-						
		In (Low-SHI*)	[dBA]	21-29-36-42	22-30-36-43	30-35-40-46	33-37-43-48	37-41-45-49	37-41-45-49	37-41-45-49	21-29-36-44	27-37-43-50						
Out (SPL*)		[dBA]	48	48	51	56	55	55	55	50	56							
Rated Current (In+Out)	[A]	3.8	4.8	7.0	7.4	7.8	9.5	11.2	4.1	7.3								
Max. Current	[A]	7.4	8.6	10	13.0	14.5	16.6	16.6	10.5	16								
Air Volume In (SHI*)	[L/s]	191.7	191.7	218.3	241.7	305.0	298.3	298.3	208	247								
Controller	Standard	Infra Red Remote				Infra Red Remote with 7 Day Timer			Infra Red Remote									
	Optional Wired 7 Day Timer	Optional: PAR-21 / PAR-31				Optional: PAR-21 / PAR-31			Optional: PAR-21 / PAR-31									
Power Supply	(Powered from outdoor unit)	230 / Single Phase / 50 Hz				230 / Single Phase / 50 Hz			230 / Single Phase / 50 Hz									
Indoor	Dimensions (WxDxH)	[mm]	798 x 232 x 295				1,100 x 238 x 325			798 x 257 x 295								
	Weight	[kg]	10				16			12								
Outdoor	Dimensions (WxDxH)	[mm]	800 x 285 x 550	800 x 285 x 550	800 x 285 x 550	840 x 330 x 850	840 x 330 x 880	840 x 330 x 880	840 x 330 x 880	800 x 285 x 550	840 x 330 x 850							
	Weight	[kg]	30	30	36	54	50	53	53	36	55							
	Sound Level - SPL*/Power (Cooling-Heating)	[dBA]	46-48 / 58-59	47-48 / 61-62	50-51 / 62-64	54-56 / 69-69	55-55 / 69-69	55-55 / 69-69	55-55 / 69-69	47 - 50	54 - 56							
Piping	Diameter (Liquid/Gas)	[mm]	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88	9.52 / 15.88	9.52 / 15.88	6.35 / 9.52	6.35 / 12.7							
	Max. Length/Height†	[m]	20 / 12	20 / 12	20 / 12	30 / 15	30 / 15	30 / 15	30 / 15	20 / 12	30 / 15							
	Chargeless Piping Length	[m]	7	7	7	7	10	10	10	7	7							
Operation Range Outdoor	Cooling	[°C]	-10 / +46	-10 / +46	-10 / +46	-10 / +46	-10 / +46	-10 / +46	-10 / +46	-10 / +46	-10 / +46							
	Heating	[°C]	-15 / +24	-15 / +24	-15 / +24	-15 / +24	-15 / +24	-15 / +24	-15 / +24	-25 / +24	-25 / +24							
Colour		White				White			White									

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

EER = Energy Efficiency Ratio

COP = Coefficient of Performance

AEER = Annual Energy Efficiency Ratio

ACOP = Annual Coefficient of Performance

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.

Sound Level: (SHI = Super High).

(Quiet-SHI*) Quiet / Low / Medium / High / Super High.

(Low-SHI*) Low / Medium / High / Super High.

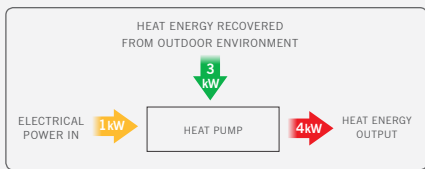
(Low-Hi*) Low / Medium / High.

Out SPL: Outdoor Sound Pressure Level measured under rated operating frequency.

*Sound Levels rated at lowest fan speed.

** Refer to Technical Manual

	Wall Mounted Heat Pumps				Floor Mounted Heat Pumps				Ceiling Mounted Heat Pumps							
	Designer Series (Small Room)		Designer Series (Medium Room)		MFZ-KA Series			HyperCore®	SLZ-KA Series							
	MSZ-EF25	MSZ-EF35	MSZ-EF42	MSZ-EF50	MFZ-KA25	MFZ-KA35	MFZ-KA50	MFZ-FB50	SLZ-KA25	SLZ-KA35	SLZ-KA50					
	MSZ-EF25VEW/B/S	MSZ-EF35VEW/B/S	MSZ-EF42VEW/B/S	MSZ-EF50VEW/B/S	MFZ-KA25VA	MFZ-KA35VA	MFZ-KA50VA	MFZ-FB50VA	SLZ-KA25VAL/Q	SLZ-KA35VAL/Q	SLZ-KA50VAL/Q					
	MUZ-EF25VE	MUZ-EF35VE	MUZ-EF42VE	MUZ-EF50VE	SUZ-KA25VA2	SUZ-KA35VA2	SUZ-KA50VA2	MUFZ-FB50VAH	SUZ-KA25VA2	SUZ-KA35VA2	SUZ-KA50VA2					
	2.5kW 4.58 EER 21 dBA*	3.5kW 3.90 EER 21 dBA*	4.2kW 3.29 EER 28 dBA*	5.0kW 3.11 EER 30 dBA*	2.5kW 4.11 EER 22 dBA*	3.5kW 3.48 EER 23 dBA*	4.8kW 3.28 EER 32 dBA*	4.8kW 3.10 EER 32 dBA*	2.5kW 3.64 EER 28 dBA*	3.5kW 3.4 EER 29 dBA*	4.6kW 3.01 EER 30 dBA*					
	3.2kW 4.78 COP 21 dBA*	4.0kW 4.30 COP 21 dBA*	5.4kW 3.82 COP 28 dBA*	5.8kW 3.55 COP 30 dBA*	3.4kW 4.07 COP 22 dBA*	4.0kW 3.81 COP 25 dBA*	6.0kW 3.28 COP 32 dBA*	5.4kW 3.54 COP 32 dBA*	3.2kW 3.74 COP 28 dBA*	4.0kW 3.67 COP 29 dBA*	5.0kW 3.14 COP 30 dBA*					
	4.5	4.5	3.0	4.0	2.0	2.5	1.5	2.0	1.5	2.0	2.5	2.5	2.0	2.5	1.0	1.5
	6.0	6.0	4.5	5.0	4.5	4.0	4.5	5.0	6.0	5.0	5.0	5.0	5.0	3.5	4.0	
	2.5	3.5	4.2	5.0	2.5	3.5	4.8	4.8	2.5	3.5	4.6					
	1.2 - 3.4	1.4 - 4.0	0.9 - 4.6	1.4 - 5.4	0.9 - 3.4	0.9 - 3.9	0.9 - 5.4	0.9 - 5.4	0.9 - 3.2	1.0 - 3.9	1.1 - 5.2					
	0.55	0.91	1.28	1.56	0.58	1.09	1.55	1.55	0.68	1.04	1.52					
	0.24 - 1.15	0.21 - 1.50	0.16 - 1.93	0.30 - 1.98	0.19 - 0.94	0.19 - 1.25	0.19 - 1.98	0.26 - 1.98	0.25 - 1.00	0.27 - 1.33	0.49 - 2.13					
	4.58	3.9	3.29	3.11	4.19	3.48	3.28	3.10	3.64	3.4	3.01					
	4.55	3.89	3.28	3.1	3.96	3.37	3.21	3.02	3.50	3.31	2.95					
	4.5	3.0	2.0	1.5	3.0	2.0	1.5	1.5	2.5	2.0	1.0					
	21	21	28	30	-	-	-	-	-	-	-					
	23-29-36-42	24-29-36-42	31-35-39-42	33-36-40-43	22-27-32-37	23-28-33-38	32-35-39-43	32-37-43-48	28-31-37	29-33-38	30-34-39					
	47	49	50	52	46	47	53	54	46	47	53					
	2.9	4.2	5.7	6.9	2.83	5.0	7.0	6.9	3.7	5.0	6.9					
	7.3	8.5	9.5	12.4	6.4	9.4	16.2	16	8.16	9.18	16.0					
	175	175	172	183	145	152	178	221.7	167	183	183					
	3.2	4.0	5.4	5.8	3.4	4.0	6.0	5.4	3.2	4.0	5.0					
	1.1 - 4.2	1.8 - 5.5	1.4 - 6.3	1.6 - 7.5	0.9 - 5.1	0.9 - 6.2	0.9 - 7.9	0.9 - 7.9	0.9 - 4.5	0.9 - 5.0	0.9 - 6.5					
	**	**	**	**	**	**	**	5.4	**	**	**					
	0.70	0.96	1.46	1.57	0.84	1.10	1.86	1.58	0.82	1.09	1.55					
	0.25 - 1.17	0.28 - 1.53	0.26 - 2.05	0.31 - 2.64	0.19 - 1.91	0.19 - 2.24	0.19 - 2.81	0.19 - 2.81	0.17 - 1.36	0.25 - 1.46	0.39 - 3.36					
	4.78	4.30	3.82	3.55	3.99	3.81	3.34	3.54	3.74	3.67	3.14					
	4.76	4.29	3.8	3.5	3.83	3.70	3.28	3.45	3.62	3.58	3.09					
	4.5	4.0	2.5	2.5	3.0	2.5	2.0	2.0	2.5	2.5	1.5					
	21	21	28	30	-	-	-	-	-	-	-					
	24-29-37-45	24-30-38-46	30-35-41-48	33-37-43-49	22-27-32-37	25-28-33-38	32-35-39-44	32-37-43-49	28-31-37	29-33-38	30-34-39					
	48	50	51	52	46	48	55	56	46	48	55					
	3.5	4.4	6.5	7.0	4.0	5.0	8.5	7.0	4.3	5.1	7.1					
	7.3	8.5	9.5	12.4	6.4	9.4	16.2	16	8.16	9.18	16.0					
	198	212	212	220	152	158	197	228.3	167	183	183					
	Infra Red Remote with 7 Day Timer				Infra Red Remote				~VAL: Infra Red Remote, ~VAQ: PAR-21 / 31 Wired 7 Day Timer							
	Optional: PAR-21 / PAR-31				Optional: PAR-21 / PAR-31											
	230 / Single Phase / 50 Hz				230 / Single Phase / 50 Hz				230V / Single Phase / 50 Hz							
	895 x 195 x 299				700 x 200 x 600				570 x 570 x 235 (Panel: 650 x 650 x 20)							
	11.5				14				16.5 (Panel: 3)							
	800 x 285 x 550	800 x 285 x 550	800 x 285 x 550	840 x 330 x 880	800 x 285 x 550	800 x 285 x 550	840 x 330 x 850	840 x 330 x 850	800 x 285 x 550	800 x 285 x 550	840 x 330 x 850					
	30	35	35	54	30	33	53	55	30	33	53					
	47-48 / 60-60	49-50 / 63-63	50-51 / 64-64	52-52 / 66-66	46-46 / 59-59	47-48 / 61-61	53-55 / 68-68	54-56	46-46 / 59-59	47-48 / 60-61	53-55 / 68-68					
	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 12.7	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7					
	20 / 12	20 / 12	20 / 12	30 / 15	20 / 12	20 / 12	30 / 15	30 / 15	20 / 12	20 / 12	30 / 30					
	7	7	7	7	7	7	7	7	7	7	7					
	-10 / +46	-10 / +46	-10 / +46	-10 / +46	-10 / +46	-10 / +46	-10 / +43	-10 / +46	-10 / +46	-10 / +46	-15 / +43					
	-15 / +24	-15 / +24	-15 / +24	-15 / +24	-15 / +24	-15 / +24	-15 / +24	-25 / +24	-15 / +24	-10 / +24	-10 / +24					
	White, Silver, Black				White				White							

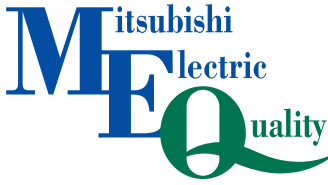


Measure of Energy Efficiency – COP / EER

A calculated measurement of energy efficiency for both heating and cooling using the ratio of kW input to kW output. Known as the Coefficient of Performance (COP) for heating, and Energy Efficiency Ratio (EER) for cooling. The higher the number, the more efficient a heat pump is. In the example pictured, the COP would be 4.0.

Measure of Energy Efficiency – ACOP / AEER

A calculated measurement of annual efficiency. In addition to the ratio of kW input to kW output, this calculation factors in other variables like the non-operating (standby) power of the heat pump. The higher the number, the more efficient a heat pump is.



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 heat pumps the industry standard. Every Mitsubishi Electric Heat Pump is a product of painstaking research, relentless testing, and a resolute determination to improve upon vital performance characteristics. As a result,

our heat pumps have become more durable, less costly to operate, quieter, easier to install and maintain, 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.

Quality you can rely on

- All units line tested
- Performance tested
- 800 hour heat stress test
- 2000 hour endurance test

Heat Pump Selection Guide

Ensuring your heat pump is the right size for your home is just as important as choosing the right style.

Correct sizing is crucial in ensuring you receive optimal comfort levels for your home. Selecting a heat pump which is too small for the area you are trying to heat will result in increased noise, poor performance and higher power consumption as the unit works to achieve heating levels beyond its capability. Installing a heat pump which is too large will create draughts and uneven heat output. Factors such as the age of the home, adequate insulation, the amount of glass windows and the climate of the area you live in must also be considered before installation takes place, as these have a direct bearing on the performance required.

Mitsubishi Electric has designed the guide below to help you determine the approximate heating requirement of your room.

New or Well Insulated House*

Room Size Calculation						Heat Pump Models				
Room Size	Ceiling Height	Room Volume	Room Size Factor	kW Heating	GE Series Wall Mounted	HyperCore® Wall Mounted	KA Series Floor Mounted	HyperCore® Floor Mounted	Ceiling Mounted	
4m x 3m	x 2.4m	= 28.8m ³	x 55 watts per m ³	= 1.6 kW	MSZ-GE25†		MFZ-KA25†		SLZ-KA25†	
4m x 4m	x 2.4m	= 38.4m ³	x 55 watts per m ³	= 2.1 kW	MSZ-GE25†		MFZ-KA25†		SLZ-KA25†	
4m x 5m	x 2.4m	= 48.0m ³	x 55 watts per m ³	= 2.6 kW	MSZ-GE25†		MFZ-KA25†		SLZ-KA25	
5m x 5m	x 2.4m	= 60.0m ³	x 55 watts per m ³	= 3.3 kW	MSZ-GE25	MSZ-FB35VAH†	MFZ-KA25		SLZ-KA35	
6m x 5m	x 2.4m	= 72.0m ³	x 55 watts per m ³	= 4.0 kW	MSZ-GE33	MSZ-FB35VAH	MFZ-KA35	MFZ-FB50VAH†	SLZ-KA35	
6m x 6m	x 2.4m	= 86.4m ³	x 55 watts per m ³	= 4.7 kW	MSZ-GE42	MSZ-FB50VAH	MFZ-KA50	MFZ-FB50VAH	SLZ-KA50	
6m x 7m	x 2.4m	= 100.8m ³	x 55 watts per m ³	= 5.5 kW	MSZ-GE50	MSZ-FB50VAH	MFZ-KA50	MFZ-FB50VAH		
7m x 7m	x 2.4m	= 117.6m ³	x 55 watts per m ³	= 6.5 kW	MSZ-GE60					
7m x 8m	x 2.4m	= 134.4m ³	x 55 watts per m ³	= 7.4 kW	MSZ-GE71					
8m x 8m	x 2.4m	= 153.6m ³	x 55 watts per m ³	= 8.4 kW	MSZ-GE80					

† Higher rated unit for application, but can be used.

Cold Damp House or Lots of Glass*

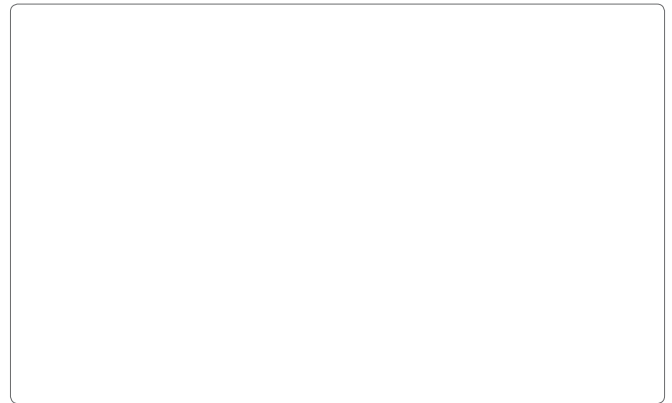
Room Size Calculation						Heat Pump Models				
Room Size	Ceiling Height	Room Volume	Room Size Factor	kW Heating	GE Series Wall Mounted	HyperCore® Wall Mounted	KA Series Floor Mounted	HyperCore® Floor Mounted	Ceiling Mounted	
4m x 3m	x 2.4m	= 28.8m ³	x 65 watts per m ³	= 1.9 kW	MSZ-GE25†		MFZ-KA25†		SLZ-KA25†	
4m x 4m	x 2.4m	= 38.4m ³	x 65 watts per m ³	= 2.5 kW	MSZ-GE25†		MFZ-KA25†		SLZ-KA25	
4m x 5m	x 2.4m	= 48.0m ³	x 65 watts per m ³	= 3.1 kW	MSZ-GE25	MSZ-FB35VAH†	MFZ-KA25		SLZ-KA35	
5m x 5m	x 2.4m	= 60.0m ³	x 65 watts per m ³	= 3.9 kW	MSZ-GE33	MSZ-FB35VAH	MFZ-KA35	MFZ-FB50VAH†	SLZ-KA35	
6m x 5m	x 2.4m	= 72.0m ³	x 65 watts per m ³	= 4.7 kW	MSZ-GE42	MSZ-FB50VAH	MFZ-KA50	MFZ-FB50VAH	SLZ-KA50	
6m x 6m	x 2.4m	= 86.4m ³	x 65 watts per m ³	= 5.6 kW	MSZ-GE50	MSZ-FB50VAH	MFZ-KA50	MFZ-FB50VAH		
6m x 7m	x 2.4m	= 100.8m ³	x 65 watts per m ³	= 6.5 kW	MSZ-GE60					
7m x 7m	x 2.4m	= 117.6m ³	x 65 watts per m ³	= 7.6 kW	MSZ-GE71					
7m x 8m	x 2.4m	= 134.4m ³	x 65 watts per m ³	= 8.7 kW	MSZ-GE80					

† Higher rated unit for application, but can be used.

* These are a guide only – a heat pump should not be purchased without first obtaining an in-home quote by a qualified Mitsubishi Electric Authorised Installer.

Your Heat Pump Recommendation

Store Contact Details



Place business card/contact stamp here

Range Recommended (Circle below)



Classic GE Series
Wall Mounted p.7



Classic KA Series
Floor Mounted p.11



HyperCore® Series
Wall Mounted p.13



HyperCore® Series
Floor Mounted p.13



Designer EF Series
Wall Mounted p.9



Cassette SLZ Series
Ceiling Mounted p.16



Concealed Systems
p.17



Multi Room System
p.18

Model(s) Recommended

Notes

5 Year Warranty

The Mitsubishi Electric Heat Pumps listed in this brochure come with a full 5 year parts, labour, and compressor warranty. Warranty conditions apply.

For more information on Mitsubishi Electric Heat Pumps, please call our customer service team on **0800 784 382**

 **MITSUBISHI ELECTRIC**
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