



# Heat Pump Catalogue

# INVEST IN THE BEST



Thanks New Zealand for another year!

Achieving 12 Reader's Digest Trusted Brand Awards in the last 12 years – and winning the Most Trusted Heat Pump Brand 10 times – cements Mitsubishi Electric as the leading brand Kiwis trust to keep them warm for over a decade.

A heat pump is a long-term investment in comfort and health.  
Make sure you invest in the best.



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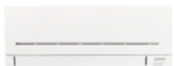
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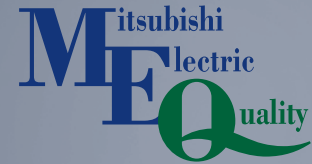
# INVEST — IN THE — BEST

Trusted by countless Kiwis, Mitsubishi Electric is celebrated for its reliable performance and cutting-edge technology, delivering optimal warmth and comfort when it matters most.

## The Mitsubishi Electric Advantage

### Quality you can Trust

Mitsubishi Electric has a long history of keeping Kiwis comfortable and warm for over 3 decades. Engineered to thrive in New Zealand's diverse and demanding climates, Mitsubishi Electric offers industry-leading comfort solutions tailored for exceptional performance, season after season.



#### Quality you can rely on:

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

### Long-Term Savings

Investing in a Mitsubishi Electric Heat Pump means fewer worries about breakdowns and replacement costs. The longevity of these units is significantly greater than many cheaper alternatives, which often require more frequent servicing or earlier replacement. The durability of Mitsubishi Electric Heat Pumps also means that the total cost of ownership over the life of the unit is often much lower than initially cheaper models.

### Supported by Fellow Kiwis

Choosing Mitsubishi Electric isn't just an investment in a heat pump; it's an investment in peace of mind. Exclusively distributed by 100% locally owned and operated Black Diamond Technologies Limited, the combination of an internationally trusted brand with the comfort of a New Zealand company means that you will always get the best products, the best local service and the best local support.

### Award-Winning Experience

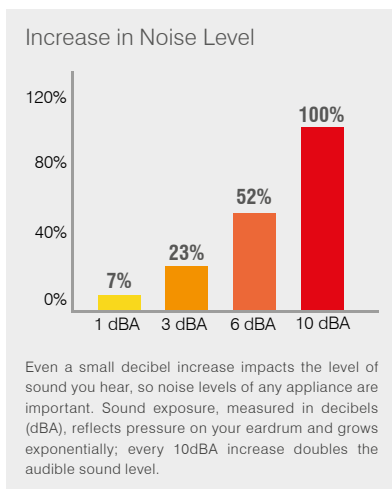
Trust is built on consistent, positive experiences, and Mitsubishi Electric has earned the trust of New Zealanders, having Achieved 11 Reader's Digest Trusted Brand Awards in the last 11 years – 9 of which were Most Trusted Heat Pump Brand as voted by Kiwis! This accolade is more than just a title; it's a promise of satisfaction and a testament to the brand's commitment to excellence and after sales support in New Zealand.



# INVEST — IN THE — BEST

## Quietness

Mitsubishi Electric leads the industry with some of New Zealand's quietest heat pumps. Don't let your heat pump keep you up at night, starting from just 18dBA\*, our high wall and floor console indoor units are unrivalled for quietness – because we want you to feel the warmth, not hear it.



# New Zealand's Quietest Heat Pumps

## 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, with sound ratings then independently certified.



## The Secret to Quietness

### 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. As a result, less air needs to be passed across the coil to achieve the same indoor temperature; less air means less noise.

### Airflow

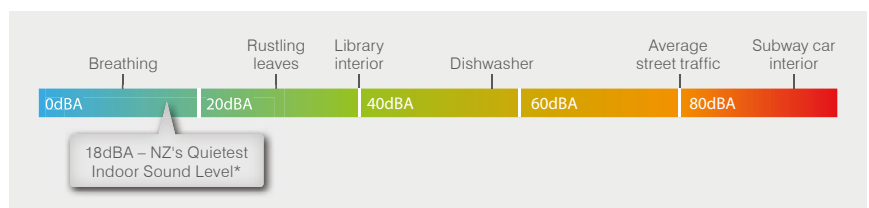
Our larger air inlet duct allows air to flow freely, reducing noise as it leaves the heat pump. Think of whistling; it is pretty hard to whistle when your mouth is open wide – the same principle applies here.

### Indoor Unit

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

## Noise Level Comparison

In the context of appliances, a dishwasher registers around 55dBA and a washing machine on spin cycle registers at around 75dBA. So it's easy to see why our heat pumps are considered so very quiet. As an idea of healthy sound levels for your home, the Night Noise Guidelines for Europe defines sleep disturbance at 42dBA, general annoyance at 32dBA, and 55dBA as likely to have a negative impact on children's learning. It follows that when buying a heat pump for your home, the quietest available is all you should settle for – Mitsubishi Electric Heat Pumps are just that.



\* MSZ-AP25 and MFZ-KW25/35/42 indoor sound level on lowest fan speed in Heating Mode.

# INVEST — IN THE — BEST

## Filtration

We spend up to 80% of our time inside and as such, good indoor air quality is paramount to our wellbeing. This is why Mitsubishi Electric has developed Plasma Quad Filtration to help provide you with cleaner, healthier air all year round.

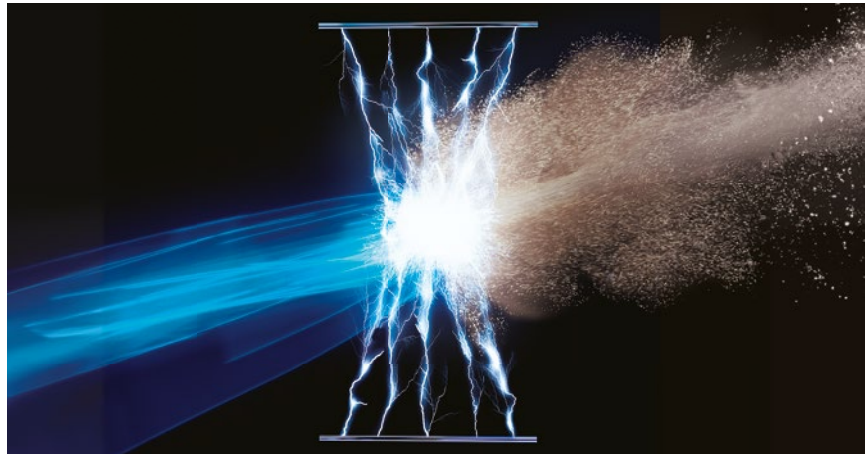
**Plasma** **4+**  
FILTRATION

# Plasma Quad Advanced Filtration

## The New Standard in Cleaner, Healthier Air

Our unique advanced Plasma Quad Plus Filtration Technology, significantly improves indoor air quality by minimising common indoor pollutants, allergens, mould and dust particles. It's so powerful it can even minimise viruses!

The two stage purification system works like an electrical curtain. It uses powerful plasma to filter out microscopic particles. These then pass through an electrical discharge that is capable of absorbing PM2.5 particles – which are up to 30 times smaller than the width of a human hair. As a result, viruses and bacteria are effectively inhibited and the air deodorised.



## Clean Indoor Air You Can Depend On

Plasma Quad Filtration is an active air filtration system developed by Mitsubishi Electric to minimise indoor airborne pollutants.

Independent testing has shown Plasma Quad Filtration to be effective at eliminating 98% of airborne viruses, bacteria and moulds, 98% of allergens (such as pollen), 97% of mites and dust, 99% of suspended particulate matter (PM2.5), and also traps and neutralises odours. In fact, providing up to 98% effectiveness of removing airborne Covid-19\* particles too, it's the ultimate peace of mind for ensuring a healthier, cleaner living environment.



Neutralises  
**6** Common  
Airborne  
Pollutants



### Plasma Quad Heat Pump Models

Advanced Plasma Quad Plus Filtration is built into the LN Black Diamond Smart Series (see pages 20–23).

\* PQC Electrode Collection Plate, Test Chamber Lab – Test No. 20KB070569, Microbial Testing Laboratory Kobe Testing Center Japan Textile Products Quality and Technology Center.  
^ Such as Influenza A virus A/Aichi/2/68 (H3N2) - tested in a 25m<sup>2</sup> room by Virus Research Center, Sendai Medical Center, National Hospital Organisation according to JEM 1467.

# INVEST — IN THE — BEST

## Energy Efficiency

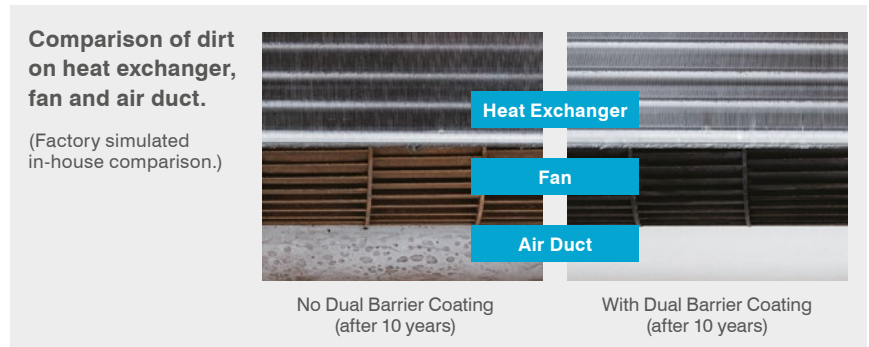
Did you know a dirty heat pump will force the system to work harder and as a result consume more energy? It therefore pays to keep internal components as clean as possible to maximise your heat pump's energy efficiency.



## Patented Dual Barrier Coating

### Keeps Internal Components Clean

Patented Dual Barrier Coating prevents dust and dirt from accumulating on key internal components like the heat exchanger, the fan and the internal duct. Not only does dust and dirt build up typically create unpleasant odours, but it also forces a heat pump to work harder, which can result in significantly impaired energy efficiency.



### Maximising Energy Efficient Operation



#### A Clean Heat Pump with Dual Barrier Coating:

- Helps prevent degradation of the heat pump's efficient performance
- Is projected to minimise the reduction of energy efficiency after 10 years by up to 18%
- Is projected to minimise the reduction of air volume after 10 years by up to 30%

#### Dual Barrier Coating Heat Pump Models

Our AP Series, AS90 and LN Black Diamond Smart Series all feature patented Dual Barrier Coating to maximise energy efficient operation.



### More Environmentally Friendly R32 Refrigerant and Inverter Technology

Next-generation R32 refrigerant has a global warming potential that is 30% lower compared to older refrigerants such as R410A. Furthermore, zero ozone depleting R32 is easier to reuse and recycle.

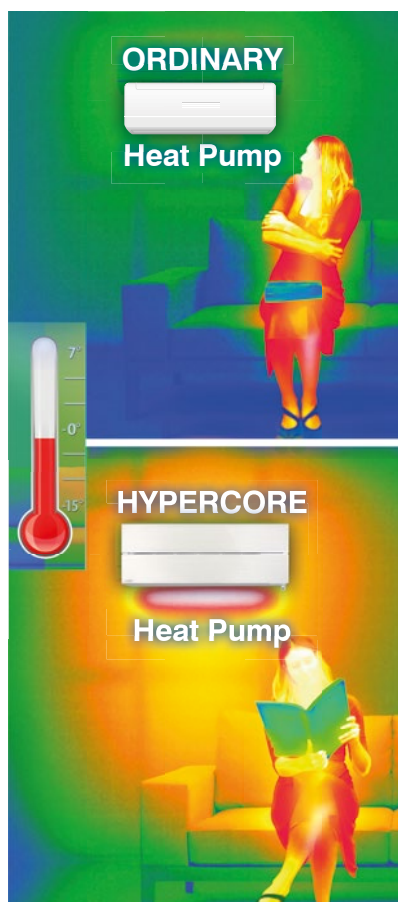
In addition, superior energy efficiency is achieved by incorporating a large, high density heat exchanger, an advanced high efficiency fan motor and a next-generation inverter compressor that uses more efficient R32 refrigerant.

# INVEST — IN THE — BEST

## Low Temperature Performance

Mitsubishi Electric HyperCore Technology is specifically designed to ensure its full rated heating capacity is produced on all those cold frosty days. In fact, we guarantee this right down to -15°C!

**HYPERCORE®**



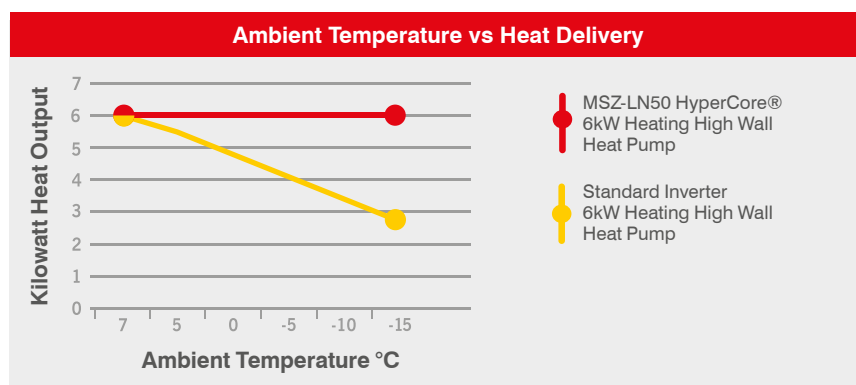
# The HyperCore Full Heating Guarantee

## Not all Heat Pumps are Created Equal

Did you know ordinary heat pumps start to produce less heat below 7°C? The reduction in heat output is especially noticeable when the temperature drops below zero. This is because at these low temperature conditions ordinary heat pumps can really struggle to cope.

## Full Heating Right Down to -15°C

While the standard heat pump produces less heat, the LN50 6kW HyperCore High Wall model continues to deliver the full 6kW heating you paid for. As the graph below shows, even though both heat pumps are rated to provide 6kW of heat, their performance differs greatly as the temperature drops.



## HyperCore Compressor

HyperCore Heat Pumps are fitted with a 'heating caulking compressor' unique to Mitsubishi Electric. This compressor moves more vapour volume for less energy input, allowing it to maintain efficiency and higher revolutions.



## HyperCore Advanced Defrost Logic

To remove the ice build up, the heat pump will go into "Defrost Mode", during which 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.

It's our promise to give you peace of mind that no matter where you live, if you experience frosty winter days, you will get all the heat you paid for whilst feeling the warmth when it matters most.



## HyperCore Heat Pump Models

Our LN Black Diamond Smart High Wall Heat Pump 2.5kW – 5.0kW models are available with optional HyperCore Technology (see pages 20–23). Our KW RapidHeat Smart Floor Console Range includes 5.0kW and 6.1kW models with optional HyperCore Technology (see pages 24–25).

# INVEST — IN THE — BEST

## Wi-Fi Control

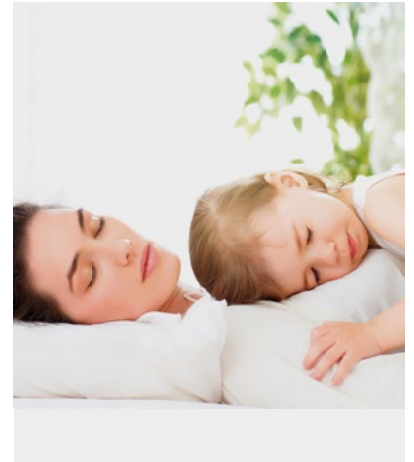
Pre-heat or cool a room no matter where you are. On the way home, running late, or in a different country, with Wi-Fi Control you'll always arrive home to total comfort.

## Always Return to Perfect Comfort

### A Perfect Night's Sleep

Wi-Fi Control tells you the actual bedroom temperature so you can pre-heat or cool your bedroom from the comfort of your couch before you go to bed - without having to get up!

Wi-Fi Control is also great for pre-heating your living room before you have to get up in the morning. It will make those early frosty morning starts just that little bit easier to face.



### Easily Turn Off Heat Pumps Left On by Mistake

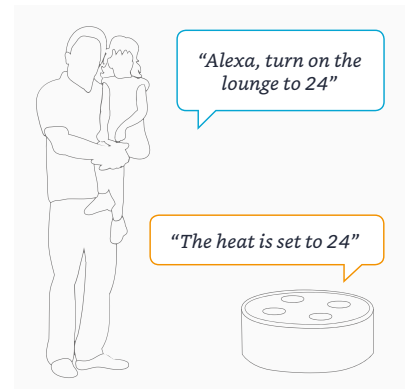
Left home in a rush and forgot to turn off your heat pump? The App quickly identifies any heat pump that is still running, allowing you to turn it off wherever you are.

### Voice Control Compatible

Whether as an optional upgrade or built-in, Mitsubishi Electric Wi-Fi Control is Amazon Alexa and Google Home enabled.

Take your comfort to the next level and enjoy hands-free heat pump control.

Cooking dinner or playing with the kids? Now you can control your heat pump without the need to lift a finger, allowing you to focus on the more important things.

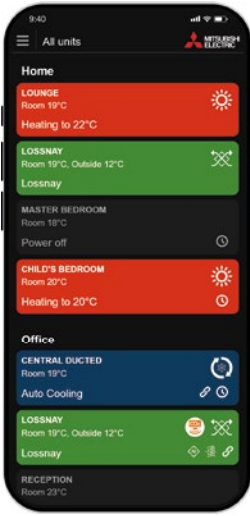


### Central Group Control Ideal for Schools and Motels

With the purchase of additional Wi-Fi Interfaces, multiple indoor units can effectively be monitored to control temperature settings and airflow simultaneously in the same App using Group Control.



**Wi-Fi**  
CONTROL



Monitor and control multiple units



You can edit an existing rule or create a new one

## Set Operating Rules

Because Wi-Fi Control reflects the real-time room temperature at any time, the unique rule setting functionality allows you to customise a minimum and maximum temperature range. The result – the perfect temperature is maintained for total comfort all night long. Simply apply a minimum and/or maximum temperature rule and let Wi-Fi Control do the rest.

## Multiple Locations, One App

The units don't need to be in the same home or building, but can even be across a number of different locations. Your home, a holiday home and the office – it can all be controlled and customised through one App.

# THE POWER IS IN YOUR HANDS.

## New! Smart Monitoring for Efficient Heating and Cooling All Year Round

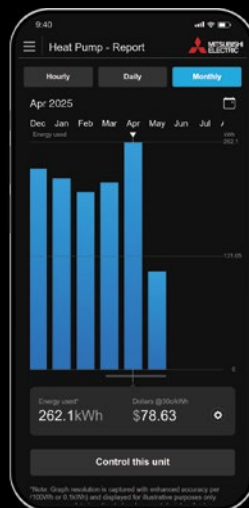
Mitsubishi Electric Wi-Fi Heat Pump Energy Monitoring truly puts the power in your hands and gives you and your family the visibility to make more energy efficient choices when heating and cooling your home. Now, you can monitor the indicative energy use of a compatible Mitsubishi Electric Heat Pump connected with built-in or optional Wi-Fi Control, using the Mitsubishi Electric App.

### View Energy Usage by Month, Day or Hour

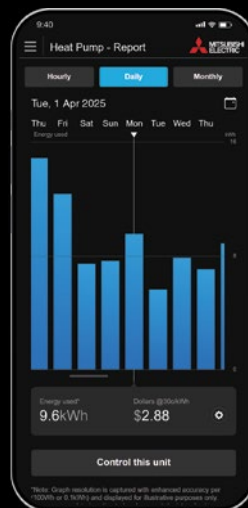
Using your smart phone or tablet, you can see at a glance on a monthly, daily and even hourly basis what the indicative costs of running your heat pump looks like in dollars.

### Wi-Fi Energy Monitoring Compatible Models

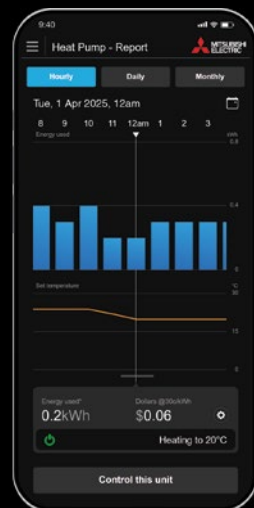
GS Series\*, AP Series, AS90, EF Designer Smart Series, KW RapidHeat Smart and LN Black Diamond Smart Series single room heat pumps.



Month



Day



Hour



\* GS 71/80 require revision 'A2' or higher.



# GS Standard Series



The GS Standard Heat Pump Series offers real value while delivering energy efficient heating and cooling. Superior heat pump technology, designed in Japan for New Zealand conditions.



## Classic Design Meets Superior Quality and Efficiency

The GS Standard Series Heat Pump offers real value while delivering exceptional product quality, reliability and energy efficient heating and cooling.

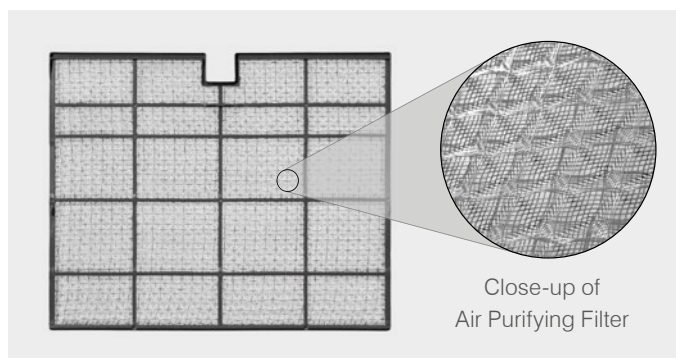
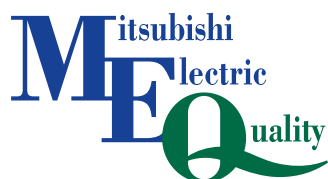
Combining a classic neutral design with superior energy saving features, the GS Series is the perfect heat pump for where it matters most – in living rooms and bedrooms.

## Next-Generation R32 Technology

Superior energy efficiency is achieved by incorporating a large, high-density heat exchanger, an advanced high-efficiency fan motor and a next-generation compressor using the latest super efficient and more environmentally friendly R32 refrigerant.

## Filtration for Cleaner Air

The standard air purifying filter traps dust, pollen and other airborne contaminants while the optional washable Anti-Allergy Enzyme Filter effectively breaks down harmful microbes such as bacteria, mould and dust mites.



## Econo Cool Function



This intelligent temperature control feature adjusts the airflow distributed in the room depending on the air outlet temperature. Temperature settings can be raised by 2°C without any loss of in-room comfort. That's equal to a gain of up to 20% in energy efficiency.

## Vertical Swing Vane Airflow



The Vertical Swing Vane function enables airflow direction to be adjusted up, down or set to Swing Mode – ensuring every corner of the room is comfortable.

## Blue Fin Coating – Built to Withstand the Elements



The heat exchanger of the outdoor unit has been treated with Blue Fin Anti-Corrosion Treatment, slowing the corrosion process caused by salt and sulphur in the air especially in coastal and high sulphur areas.

## 12 Hour Programmable Controller



With an easy-to-read display and large buttons, the hand-held 12 Hour Programmable Controller is designed to give you simplified control of your GS Standard Series High Wall.

Because the controller removes the complicated and focuses on the operating functions that really matter, whether you are tech savvy or not, you can rest assured comfort will always be at your fingertips.



## Optional Wall Mounted PAR 7-Day Controller



The optional wall mounted controller features a built-in weekly timer, allowing you to program up to four time and temperature settings for each day of the week.

You can now return 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.



## Optional Wi-Fi Control Upgrade<sup>\*1</sup>



Now you can pre-heat or cool a room no matter where you are. On the way home, running late, or in a different country, with optional Wi-Fi Control<sup>\*1</sup> you'll always arrive home to total comfort.

The intuitive app also features Energy Monitoring<sup>\*2</sup>, allowing you to track indicative energy use so you can make more energy efficient choices when heating and cooling your space. See pages 6–7 for more details on Wi-Fi Control.

OPTIONAL  
**Wi-Fi**  
CONTROL

**energy**  
MONITORING

<sup>\*1</sup> Wi-Fi adapter must be mounted externally.

<sup>\*2</sup> GS 71/80 require revision 'A2' or higher.



Dimensions (WxDxH): 799 x 232 x 290mm

### MSZ-GS25VFD

Heating Capacity: 3.1 kW | Cooling Capacity: 2.5 kW

### MSZ-GS35VFD

Heating Capacity: 3.7 kW | Cooling Capacity: 3.5 kW



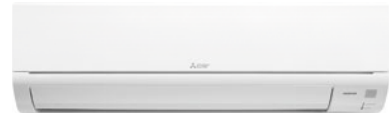
Dimensions (WxDxH): 923 x 250 x 305mm

### MSZ-GS50VFD

Heating Capacity: 5.5 kW | Cooling Capacity: 5.0 kW

### MSZ-GS60VFD

Heating Capacity: 6.6 kW | Cooling Capacity: 6.0 kW



Dimensions (WxDxH): 1100 x 238 x 325mm

### MSZ-GS71VFD

Heating Capacity: 8.0 kW | Cooling Capacity: 7.1 kW

### MSZ-GS80VFD

Heating Capacity: 9.0 kW | Cooling Capacity: 7.8 kW



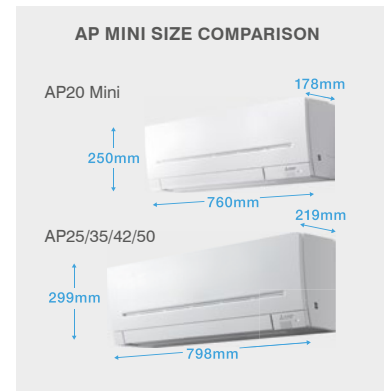
# AP Mini

The AP Mini High Wall Heat Pump brings leading-edge technology and features in New Zealand's smallest<sup>†</sup> high wall indoor unit. The perfect solution for bedrooms or small rooms where space is at a premium. Pint-sized but big on performance, the AP Mini is packed with features that maximise energy efficiency.



## New Zealand's Smallest<sup>†</sup> High Wall Indoor Unit

Specifically designed where space is at a premium, the **250mm high by 760mm wide** footprint makes it ideal for positioning above doorways in bedrooms and home offices. Now smaller spaces no longer need to miss out on year-round comfort.



## Small Enough to Fit Above Doorways

With a 16.4%\* size reduction in height and 5% reduction in width when compared to the bigger AP 25-50 models, they can even be installed in very tight places that would traditionally not have been possible such as above doorways.

## Energy Efficient EcoCore Inverter Technology

Superior energy efficiency is achieved by incorporating a large, high density heat exchanger, an advanced high efficiency fan motor and a next-generation inverter compressor that uses more efficient R32 refrigerant.

## More Environmentally Friendly R32 Refrigerant

With a global warming potential that is 30% lower compared to older refrigerants such as R410A, next-generation R32 refrigerant has a much lower environmental impact. Furthermore, zero ozone depleting R32 is easier to reuse and recycle.

# Meet the Mighty Mini



**Just 25cm high!**



<sup>†</sup>Indoor unit total volume size of 0.034m<sup>3</sup>.

\*Indoor unit height compared to the MSZ-AP25/35/42/50 range.

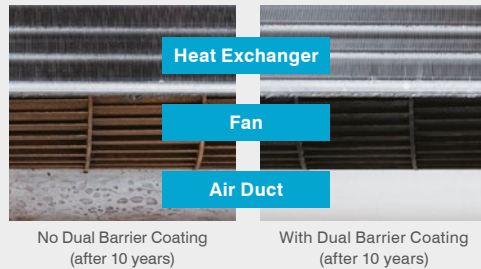
## Dual Barrier Coating Maximises Efficient Performance



The patented and world's first Dual Barrier Coating from Mitsubishi Electric prevents dust and dirt from accumulating on the inner surface of the indoor unit. By keeping your heat pump clean year-round you can rest assured your heat pump will always perform at its best.

### Comparison of dirt on heat exchanger, fan and air duct.

(Factory simulated in-house comparison.)



Dimensions (WxDxH): 760 x 178 x 250mm

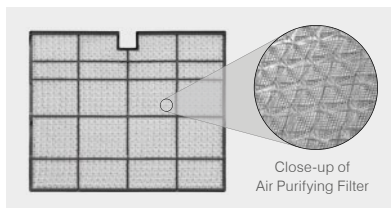
**MSZ-AP20VGD**

Heating Capacity: 2.5 kW | Cooling Capacity: 2.0 kW

## Washable Air Purifying Filter



The AP Mini is equipped with an Air Purifying Filter. This washable filter traps particles such as dust, pollen and other airborne contaminants, generating stable antibacterial and deodorising effects. The size of the



three-dimensional surface has been increased from previous models, enlarging the filter capture area. These features give the Air Purifying Filter better dust collection performance than conventional filters.

## Horizontal Airflow



The AP Mini eliminates uncomfortable draughts with Horizontal Airflow in Cooling Mode, by spreading airflow evenly across the ceiling.

## Blue Fin Coating – Built to Withstand the Elements



The heat exchanger of the outdoor unit has been treated with Blue Fin Anti-Corrosion Treatment, slowing the corrosion process caused by salt and sulphur in the air especially in coastal and high sulphur areas.

## 7-Day Programmable Controller



The AP Mini Heat Pump comes standard with a 7-Day Controller, so you can customise your heating and cooling needs to your lifestyle with as much energy efficiency as possible.

## Optional Wi-Fi Control Upgrade\*



Now you can pre-heat or cool a room no matter where you are. On the way home, running late, or in a different country, with optional Wi-Fi Control\* you'll always arrive home to total comfort.

The intuitive app also features Energy Monitoring, allowing you to track indicative energy use so you can make more energy efficient choices when heating and cooling your space. See pages 6–7 for more details on Wi-Fi Control.

OPTIONAL  
**Wi-Fi**  
CONTROL

**energy**  
MONITORING

\*Wi-Fi adapter must be mounted externally.



# AP Classic Series

The AP Classic High Wall Heat Pump Series sets a new standard in super energy efficient heating. Next-generation EcoCore Technology is designed to use less power than ever before. And starting at just 18dBA\* , it's NZ's quietest – ideal for living rooms and bedrooms!



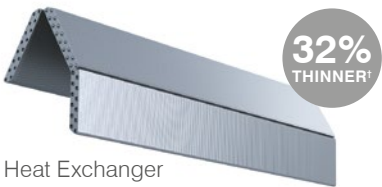
## New Zealand's Quietest Heat Pump!\*

Starting at an incredibly quiet 18dBA on its lowest fan speed, the AP25 indoor unit is New Zealand's quietest high wall heat pump ever. It is ideal where quietness matters most, in bedrooms even on the coldest of winter nights.

Furthermore, the addition of Night Mode means the outdoor operating noise level drops by a further 3dBA – for the perfect night's sleep.



Fan Coil



Heat Exchanger

## The Secret to Quietness

By making the heat exchanger 32% thinner† and designing the fan coil to be 22% larger† in comparison to previous models, pressure loss across the heat exchanger is minimised and air can now be moved across a larger fan surface. Add to this a new aerodynamically designed fan coil, and a new level of quietness has been achieved!

## Dual Barrier Coating Maximises Efficient Performance

The patented and world's first Dual Barrier Coating from Mitsubishi Electric prevents dust and dirt from accumulating on the inner surface of the indoor unit; keeping your heat pump clean year-round.

Keeping key internal components like the heat exchanger, fan and internal duct clean is important for both home comfort and efficiency. Not only does dust and dirt build-up typically create unpleasant odours, it also forces a heat pump to work harder, which can result in significantly impaired energy efficiency.

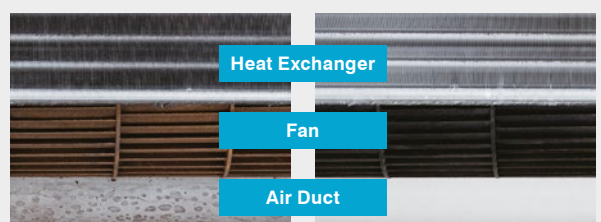
Dual Barrier Coating prevents dust and oil build-up on the interior of the heat pump for the ultimate in peace of mind, ease and comfort.



Dual Barrier Coating

### Comparison of dirt on heat exchanger, fan and air duct.

(Factory simulated in-house comparison.)



No Dual Barrier Coating (after 10 years)    With Dual Barrier Coating (after 10 years)

\* AP25 indoor sound level on lowest fan setting in Heating Mode.

† Compared to MSZ-GL Series.

## Energy Efficient EcoCore Inverter Technology



Superior energy efficiency is achieved by incorporating a large, high density heat exchanger, an advanced high efficiency fan motor and a next-generation inverter compressor that uses more efficient R32 refrigerant.

## More Environmentally Friendly R32 Refrigerant

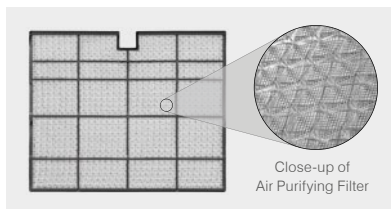


With a global warming potential that is 30% lower compared to older refrigerants such as R410A, next-generation R32 refrigerant has a much lower environmental impact. Furthermore, zero ozone depleting R32 is easier to reuse and recycle.

## Washable Air Purifying Filter



The AP Classic Series is equipped with an Air Purifying Filter. This washable filter traps particles such as dust, pollen and other airborne contaminants, generating stable antibacterial and deodorising effects. The size of the



three-dimensional surface has been increased from previous models, enlarging the filter capture area. These features give the Air Purifying Filter better dust collection performance than conventional filters.

## Horizontal Airflow



The AP Classic Series eliminates uncomfortable draughts with Horizontal Airflow in Cooling Mode, by first spreading airflow evenly across the ceiling.

## Wide and Long Airflow\*



The Wide Airflow Mode enables the airflow direction to be adjusted from left to right and is ideal for open plan environments – ensuring every corner of the room is comfortable. The Long Airflow Mode extends airflow distance.

## Blue Fin Coating – Built to Withstand the Elements



The heat exchanger of the outdoor unit has been treated with Blue Fin Anti-Corrosion Treatment, slowing the corrosion process caused by salt and sulphur in the air especially in coastal and high sulphur areas.

## Optional Wi-Fi Control Upgrade<sup>†</sup>



Now you can pre-heat or cool a room no matter where you are. On the way home, running late, or in a different country, with optional Wi-Fi Control<sup>†</sup> you'll always arrive home to total comfort.

The intuitive app also features Energy Monitoring, allowing you to track indicative energy use so you can make more energy efficient choices when heating and cooling your space. See pages 6–7 for more details on Wi-Fi Control.

\* AP60/71/80 models only.

† Wi-Fi adapter must be mounted externally.

## AP Classic



Dimensions (WxDxH): 798 x 219 x 299mm

### MSZ-AP25VGD2

Heating Capacity: 3.2 kW | Cooling Capacity: 2.5 kW

### MSZ-AP35VGD2

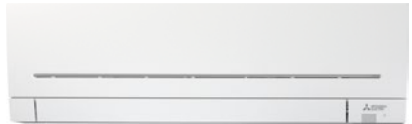
Heating Capacity: 3.7 kW | Cooling Capacity: 3.5 kW

### MSZ-AP42VGD2

Heating Capacity: 5.4 kW | Cooling Capacity: 4.2 kW

### MSZ-AP50VGD2

Heating Capacity: 6.0 kW | Cooling Capacity: 5.0 kW



Dimensions (WxDxH): 1100 x 257 x 325mm

### MSZ-AP60VGD2

Heating Capacity: 6.8 kW | Cooling Capacity: 6.0 kW

### MSZ-AP71VGD2

Heating Capacity: 8.0 kW | Cooling Capacity: 7.1 kW

### MSZ-AP80VGD2

Heating Capacity: 9.0 kW | Cooling Capacity: 7.8 kW





# AP Smart Series

The AP Smart Series sets the new benchmark for energy-efficient heating and cooling featuring Built-in Wi-Fi Control Energy Monitoring for total control over your power use. Next-generation EcoCore Technology is designed to use less power than ever before. And starting at just 18dBA\*, it's NZ's quietest – ideal for living rooms and bedrooms!



Keep track of energy use – even when the kids take over!

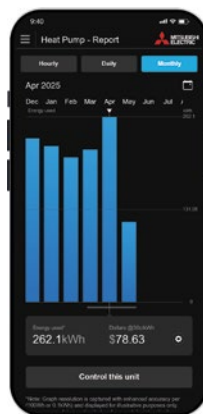
## Built-in Wi-Fi Control Energy Monitoring

Did you know a 1 degree change in temperature can reduce energy use by up to 10%? Mitsubishi Electric Wi-Fi Control with Energy Monitoring truly puts the power in your hands. Now you have the visibility to make more energy efficient choices when heating and cooling your home – no matter where you are.

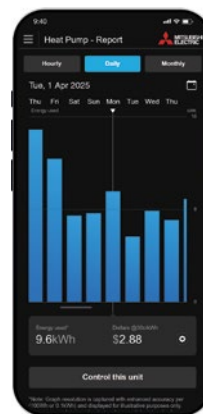
## Smart Monitoring for Efficient Heating and Cooling All Year Round

Using the Mitsubishi Electric Wi-Fi Control App, you can see at a glance on a monthly, daily and even hourly basis what the indicative energy consumption (kWh) and the indicative energy costs of running your heat pump looks like in dollars (\$).

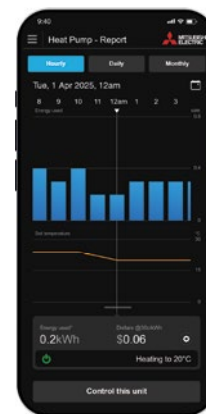
## View Energy Usage by Month, Day or Hour



View by Month



View by Day



View by Hour

## Never Return to a Cold Home Again with Wi-Fi Control

Pre-heat or cool a room no matter where you are. With Wi-Fi Control you'll always arrive home to total comfort.

## New Zealand's Quietest Heat Pump!\*

Starting at an incredibly quiet 18dBA on its lowest fan speed, the AP25 indoor unit is New Zealand's quietest high wall heat pump ever. It is ideal where quietness matters most, in bedrooms for even the coldest of winter nights.

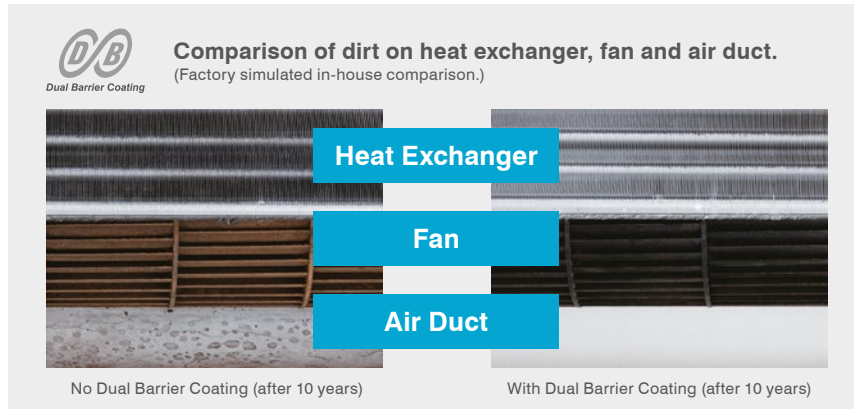
Furthermore, the addition of Night Mode means the outdoor operating noise level drops by a further 3dBA – for the perfect night's sleep.



\* AP25 indoor sound level on lowest fan setting in Heating Mode.

## Dual Barrier Coating Maximises Efficient Performance

The patented and world's first Dual Barrier Coating from Mitsubishi Electric prevents dust and dirt from accumulating on the inner surface of the indoor unit; keeping your heat pump clean year-round.



Keeping key internal components like the heat exchanger, fan and internal duct clean is important for both home comfort and efficiency. Not only does dust and dirt build-up typically create unpleasant odours, it also forces a heat pump to work harder, which can result in significantly impaired energy efficiency.

Dual Barrier Coating prevents dust and oil build-up on the interior of the heat pump for the ultimate in peace of mind, ease and comfort.

## Energy Efficient EcoCore Inverter Technology



Superior energy efficiency is achieved by incorporating a large, high density heat exchanger, an advanced high efficiency fan motor and a next-generation inverter compressor that uses more efficient R32 refrigerant.

## Horizontal Airflow



The AP Smart Series eliminates uncomfortable draughts with Horizontal Airflow in Cooling Mode, by first spreading airflow evenly across the ceiling.

## Wide and Long Airflow\*



The Wide Airflow Mode enables the airflow direction to be adjusted from left to right and is ideal for open plan environments – ensuring every corner of the room is comfortable. The Long Airflow Mode extends airflow distance.

## Blue Fin Coating – Built to Withstand the Elements



The heat exchanger of the outdoor unit has been treated with Blue Fin Anti-Corrosion Treatment, slowing the corrosion process caused by salt and sulphur in the air especially in coastal and high sulphur areas.

## Washable Air Purifying Filter



The AP Smart Series is equipped with an Air Purifying Filter. This washable filter traps particles such as dust, pollen and other airborne contaminants, generating stable antibacterial and deodorising effects. The size of the three-dimensional surface has been increased from previous models, enlarging the filter capture area. These features give the Air Purifying Filter better dust collection performance than conventional filters.

## AP Smart



Dimensions (WxDxH): 798 x 219 x 299mm

### MSZ-AP25VGKD2

Heating Capacity: 3.2 kW | Cooling Capacity: 2.5 kW

### MSZ-AP35VGKD2

Heating Capacity: 3.7 kW | Cooling Capacity: 3.5 kW

### MSZ-AP42VGKD2

Heating Capacity: 5.4 kW | Cooling Capacity: 4.2 kW

### MSZ-AP50VGKD2

Heating Capacity: 6.0 kW | Cooling Capacity: 5.0 kW



Dimensions (WxDxH): 1100 x 257 x 325mm

### MSZ-AP60VGKD2

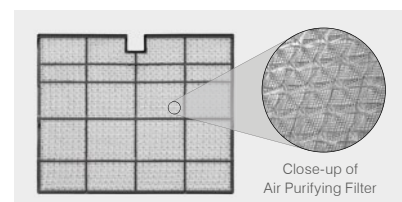
Heating Capacity: 6.8 kW | Cooling Capacity: 6.0 kW

### MSZ-AP71VGKD2

Heating Capacity: 8.0 kW | Cooling Capacity: 7.1 kW

### MSZ-AP80VGKD2

Heating Capacity: 9.0 kW | Cooling Capacity: 7.8 kW



\* AP60/71/80 models only.

# AS90 Large Capacity High Wall

Combining powerful performance in an elegant and compact case, the AS90 offers high airflow, making it ideal for light commercial applications such as schools, halls, and open plan shared spaces.



## The Ideal Solution for Large Spaces

Boasting a capacity of 9.0kW in cooling (10.3kW in heating), this model features next-generation R32 high-efficiency compressor technology, developed and engineered to use less power than ever before. The Wide and Long Airflow Mode, in addition to Powerful Mode, ensures far-reaching coverage making the AS90 ideal for larger, open working spaces.

## Next-Generation R32 Technology

Superior energy efficiency is achieved by incorporating a large, high-density heat exchanger, an advanced high-efficiency fan motor and a next-generation compressor using the latest super efficient and more environmentally friendly R32 refrigerant.

## Powerful Mode

The one-touch Powerful Mode automatically adjusts the fan speed and temperature, guaranteeing full power operation within 15 minutes for faster heating or cooling. After 15 minutes, the unit automatically returns to its previous operation settings.



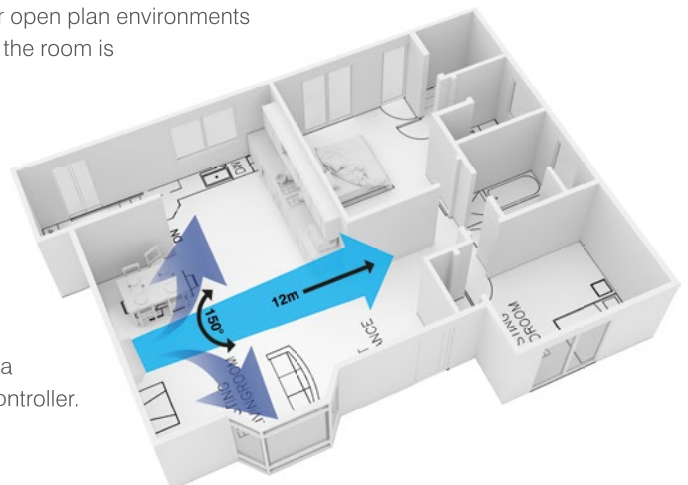
## Wide and Long Airflow

The Wide Airflow Mode enables airflow direction to be adjusted from left to right, ideal for open plan environments ensuring every corner of the room is comfortable.



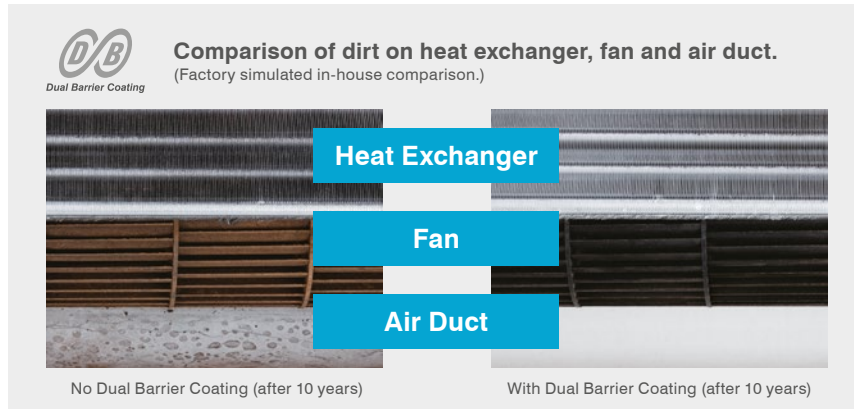
The Long Airflow Mode extends airflow by up to 12m to reach even the furthest point of open plan or larger living spaces.

These modes are simply activated at the touch of a button on your remote controller.



## Dual Barrier Coating Maximises Efficient Performance

The patented and world's first Dual Barrier Coating from Mitsubishi Electric prevents dust and dirt from accumulating on the inner surface of the indoor unit; keeping your heat pump clean year-round.



Dimensions (WxDxH): 1170 x 295 x 365mm

### MSZ-AS90VGD

Heating Capacity: 10.3 kW | Cooling Capacity: 9.0 kW



## Two Stage Advanced Filtration



The AS90 High Wall is equipped with a standard air filter and an Anti-Allergy Enzyme Filter. This washable air cleaning filter traps harmful particles such as dust, pollen and other airborne contaminants that can cause allergic reactions. Furthermore, the filter itself is infused with an artificial Enzyme Catalyst that helps break down harmful microbes such as bacteria, mould and dust mites.

## Econo Cool Function



This intelligent temperature control feature adjusts the airflow distributed in the room depending on the air outlet temperature. Temperature settings can be raised by 2°C without any loss of in-room comfort. That's equal to a gain of up to 20% in energy efficiency.

## Blue Fin Coating – Built to Withstand the Elements



The heat exchanger of the outdoor unit has been treated with Blue Fin Anti-Corrosion Treatment, slowing the corrosion process caused by salt and sulphur in the air especially in coastal and high sulphur areas.

## 7-Day Programmable Controller



The AS90 Large Capacity High Wall Heat Pump System features a built-in weekly timer, allowing you to program up to four time and temperature settings for each day of the week. The 7-Day Controller is the perfect way to maximise energy efficiency without compromising on comfort.

## Optional Wi-Fi Control Upgrade



Now you can pre-heat or cool a room no matter where you are. The intuitive app also features Energy Monitoring, allowing you to track indicative energy use so you can make more energy efficient choices when heating and cooling your space. See pages 6–7 for more details on Wi-Fi Control.

OPTIONAL  
**Wi-Fi**  
CONTROL

**energy**  
MONITORING

# EF Designer Smart Series



The EF Designer Smart Series features exceptional energy efficiency and Built-in Wi-Fi Control Energy Monitoring for total control over your power use. Elegant and slimline in design, these heat pumps are available in a choice of colours including Rich Black Diamond, Matte Silver or Pure White – so you can truly reflect your interior design style.



## Built-in Wi-Fi Control Energy Monitoring

Did you know a 1 degree change in temperature can reduce energy use by up to 10%? Mitsubishi Electric Wi-Fi Control with Energy Monitoring truly puts the power in your hands. Now you have the visibility to make more energy efficient choices when heating and cooling your home – no matter where you are.

## Smart Monitoring for Efficient Heating and Cooling All Year Round

Using the Mitsubishi Electric Wi-Fi Control App, you can see at a glance on a monthly, daily and even hourly basis what the indicative energy consumption (kWh) and the indicative energy costs of running your heat pump looks like in dollars (\$).



## View Energy Usage by Month, Day or Hour



## Never Return to a Cold Home Again with Wi-Fi Control

Pre-heat or cool a room no matter where you are. With Wi-Fi Control you'll always arrive home to total comfort.

## 7-Day Programmable Controller

The built-in weekly timer allows you to program up to four time and temperature settings for each day of the week.

## Why Limit Yourself to One Colour When You Can Choose from Three?

One of the most rewarding aspects of interior design is being able to inject your own design personality through colour selection and accessorising. The Designer Smart Series takes this to the next level. Available in a range of contemporary colours including Pure White, Matte Silver and Rich Black Diamond – now you can blend in or stand out so you can truly reflect your interior design style.



reddot design award

The Designer Smart Range with its distinctive contemporary, slim-line profile has been awarded the Prestigious Reddot Design Award 2015 in recognition for outstanding design quality. The international jury only confers this sought-after seal of quality to products that set themselves apart significantly from comparable products thanks to their excellent design.



Dimensions (WxDxH): 885 x 195 x 299mm

### MSZ-EF25VGKDW/B/S

Heating Capacity: 3.2 kW | Cooling Capacity: 2.5 kW

### MSZ-EF35VGKDW/B/S

Heating Capacity: 4.0 kW | Cooling Capacity: 3.5 kW

### MSZ-EF42VGKDW/B/S

Heating Capacity: 5.4 kW | Cooling Capacity: 4.2 kW

### MSZ-EF50VGKDW/B/S

Heating Capacity: 5.8 kW | Cooling Capacity: 5.0 kW

## Energy Efficient EcoCore Inverter Technology



Superior energy efficiency is achieved by incorporating a large, high density heat exchanger, an advanced high efficiency fan motor and a next-generation inverter compressor that uses more efficient R32 refrigerant.

**ECOCORE<sup>®</sup>**

## Blue Fin Coating – Built to Withstand the Elements



The heat exchanger of the outdoor unit has been treated with Blue Fin Anti-Corrosion Treatment, slowing the corrosion process caused by salt and sulphur in the air especially in coastal and high sulphur areas.

## Quiet Operation



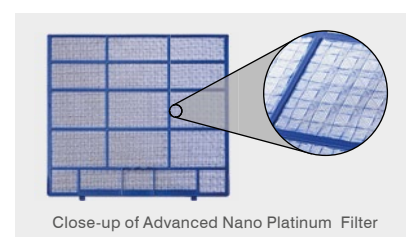
The Designer Smart Series indoor units feature Silent Mode. When selected, this fan speed setting provides very quiet operation from as low as 19dBA\* making the range ideal for bedrooms.

from  
**19dBA\***

## Advanced Nano Platinum Filter



The extra-large, washable 3D filter surface incorporates nanometre-sized platinum-ceramic particles designed to effectively collect fine dust particles, deodorise the air and eliminate bacteria at the same time. This level of advanced filtration is better at the collection of dust in comparison to conventional filters.



\* EF25 indoor sound level on lowest fan setting in Cooling Mode.

# LN Black Diamond Smart Series



The LN Black Diamond Smart Series sets the new standard in personalised comfort and style. Available in three reflective colours, the range is packed with advanced features including Plasma Quad Plus Filtration ideal for allergy sufferers, the 3D i-See Sensor for customised heating or cooling and Built-in Wi-Fi Control Energy Monitoring!



## Reflect Your Design Personality

Featuring a striking flat panel design, the Black Diamond Smart Series is available in three unique reflective colour finishes – White Diamond, Red Diamond and Black Diamond, that change depending on the light in the room.

Now you can make a real interior design style statement with your heat pump colour choice.

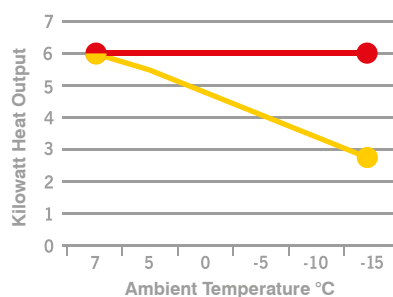
## Optional HyperCore

The Black Diamond Smart Series 2.5–5kW capacities are available with optional HyperCore Technology.

While ordinary heat pumps produce less heat below 7°C, Mitsubishi Electric HyperCore Technology guarantees to continue to deliver its full rated heating capacity right down to -15°C, so you stay warm when you need it most.

See page 5 for more details on our HyperCore Technology.

Ambient Temperature vs Heat Delivery



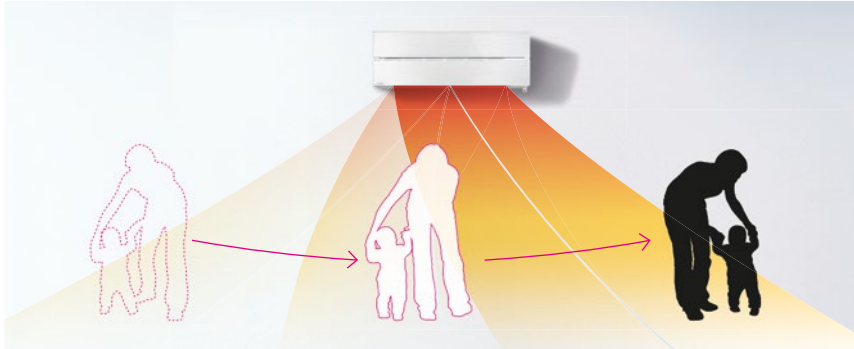
- MSZ-LN50 HyperCore® 6kW Heating High Wall Heat Pump
- STANDARD Inverter 6kW Heating High Wall Heat Pump



\* The Black Diamond Series LN60 is not available with HyperCore Technology.

## 3D i-See Sensor

The 3D i-See Sensor detects the presence and position of people in the room using thermal heat recognition, adjusting the temperature and airflow pattern for optimal comfort. This helps the Black Diamond Smart Series do more than simply save energy, it also enables a new level of truly personalised comfort to be achieved.



You always feel warm and comfortable as the direct heat follows you as you move around the room.

### Thermal Scan Technology

The 3D i-See Sensor continually takes a thermal scan of the room, dividing it into 752 three-dimensional zones and measuring the temperature in each zone to detect exactly where people are in a room.

## Independently Controlled Dual Split Vane Airflow

### Intuitively Adjusts the Airflow Direction to Where it's Needed

The 3D i-See Sensor works in conjunction with the Dual Split Vanes to provide heating or cooling to where it is needed most. As a result, it can save energy by not heating or cooling areas that don't require it. Whether you prefer direct, indirect or evenly distributed airflow, the 3D i-See Sensor and Dual Split Vanes provide the ultimate in customisable airflow.

### You'll Never Feel Cold

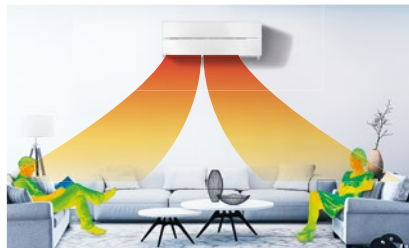
The 3D i-See Sensor can recognise movement of an individual in a room and subsequently direct the airflow with the Dual Split Vanes; so they continue feeling warm no matter where they have moved to in the room.

### Comfort for All With Multiple Airflow Directions

The 3D i-See Sensor can identify multiple people present in the room and adjust the Dual Split Vanes to direct heating or cooling evenly throughout; so everybody feels comfortable in the room.



Only one occupant feels direct heat.



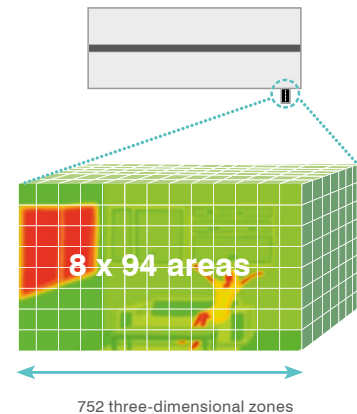
With Dual Split Vanes both occupants feel direct heat.

### Even Airflow – Airflow Only Where You Need It

With Even Airflow Mode, the 3D i-See Sensor memorises people's movements and furniture positions, efficiently distributing airflow only to where it is needed.



8 sensors measure while moving left to right



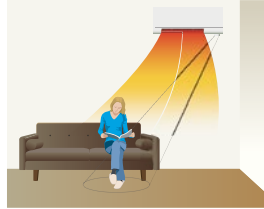
752 three-dimensional zones

# LN Black Diamond Smart Series

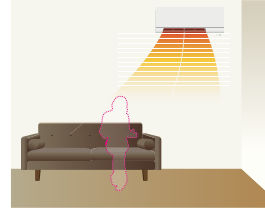


## Energy Saving No Occupancy Modes

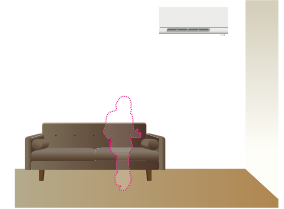
The 3D i-See Sensor detects whether or not there are people in the room, and automatically switches to one of the No Occupancy Modes, as set by the user.



The 3D i-See Sensor continuously scans the room for occupants.



In Energy Saving Mode – power is reduced when you leave the room.



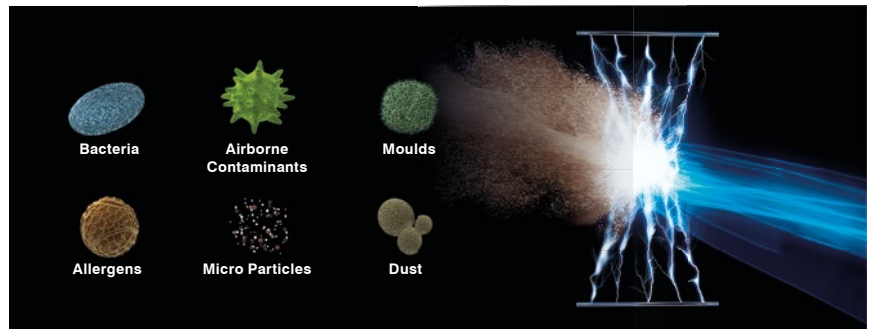
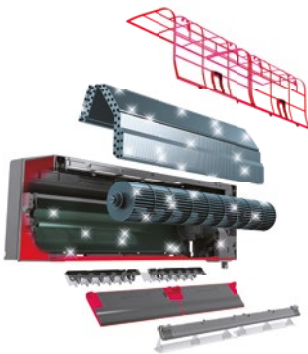
In Auto-Off Mode – unit switches off when you leave the room.

In No Occupancy Energy Saving Mode when no one is in the room, the unit automatically reduces power consumption by approximately 10% after 10 minutes, and 20% after 60 minutes. In No Occupancy Auto-Off Mode, when no one is in the room, the unit turns off automatically.

## Advanced Plasma Quad Plus Filtration

The advanced Plasma Quad Plus Filtration System, featuring high-performance two stage plasma technology, filters the air to clean away viruses such as Covid-19\* as well as smells, dust, moulds and other common household allergens.

The Two Stage Plasma Quad Plus Filter works like an electrical curtain, using an electrical discharge to catch and neutralise even microscopically small particles in the air. In fact, it can even capture PM2.5 particles (that's up to 30 times smaller than the width of a human hair!).



Independent test results confirm that the Plasma Quad Filtration System achieves extremely high reduction results in the removal of allergen, mould, bacteria and airborne contaminants in the room. Providing up to 98.8% effectiveness of removing airborne Covid-19\* particles too, it's the ultimate peace of mind for ensuring a healthier, cleaner living environment.



## Superior Energy Efficiency

Black Diamond Smart Series Heat Pumps are some of the most energy efficient heat pumps available in New Zealand.

This high energy efficiency is achieved by incorporating a large, high-density heat exchanger, an advanced high-efficiency fan motor and a next-generation compressor using the latest in super efficient R32 refrigerant.

\* PQC Electrode Collection Plate, Test Chamber Lab – Test No. 20KB070569, Microbial Testing Laboratory Kobe Testing Center Japan Textile Products Quality and Technology Center.

^ Such as Influenza A virus A/Aichi/2/68 (H3N2) - tested in a 25m<sup>2</sup> room by Virus Research Center, Sendai Medical Center, National Hospital Organisation according to JEM 1467.

# Black Diamond Smart

## Dual Barrier Coating Maximises Efficient Performance



The patented and world's first Dual Barrier Coating from Mitsubishi Electric prevents dust and dirt from accumulating on the inner surface of the indoor unit; keeping your heat pump clean year-round.

Keeping key internal components like the heat exchanger, fan and internal duct clean is important for both home comfort and efficiency. Not only does dust and dirt build-up typically create unpleasant odours, it also forces a heat pump to work harder, which can result in significantly impaired energy efficiency.

Dual Barrier Coating prevents dust and oil build-up on the interior of the heat pump for the ultimate in peace of mind, ease and comfort.

## More Environmentally Friendly R32 Refrigerant



With a global warming potential that is 30% lower compared to older refrigerants such as R410A, next-generation R32 refrigerant has a much lower environmental impact. Furthermore, zero ozone depleting R32 is easier to reuse and recycle.

## Blue Fin Coating – Built to Withstand the Elements



The heat exchanger of the outdoor unit has been treated with Blue Fin Anti-Corrosion Treatment, slowing the corrosion process caused by salt and sulphur in the air especially in coastal and high sulphur areas.

## Quiet Operation



Black Diamond Smart indoor units feature Silent Mode – a fan speed setting that provides quiet operation as low as 19dBA\* so you will feel the warmth, not hear it.

## 7-Day Programmable Controller



All Black Diamond Smart Series Heat Pumps feature a built-in weekly timer, allowing you to program up to four time and temperature settings for each day of the week. You can now return 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.

## Built-in Wi-Fi Control Energy Monitoring



With Built-in Wi-Fi Control you can pre-heat or cool a room no matter where you are. On the way home, running late, coming home early, or even when you're in a different country, with Wi-Fi Control you'll always arrive home to total comfort.

The intuitive app also features Energy Monitoring, allowing you to track indicative energy use so you can make more energy efficient choices when heating and cooling your space. See pages 6–7 for more details on Wi-Fi Control.



Dimensions (WxDxH): 890 x 233 x 307mm

### MSZ-LN25VG2V/B/R\*\*

Heating Capacity: 3.2 kW | Cooling Capacity: 2.5 kW

### MSZ-LN35VG2V/B/R\*\*

Heating Capacity: 4.0 kW | Cooling Capacity: 3.5 kW

### MSZ-LN50VG3V/B/R\*\*

Heating Capacity: 6.0 kW | Cooling Capacity: 5.0 kW

### MSZ-LN60VG3V/B/R

Heating Capacity: 6.8 kW | Cooling Capacity: 6.1 kW

\*\* HyperCore option available.



**BUILT-IN**  
**Wi-Fi**  
**CONTROL**

**energy**  
**MONITORING**



\* LN 25/35 indoor sound level on the lowest fan setting.

# KW RapidHeat Smart Series



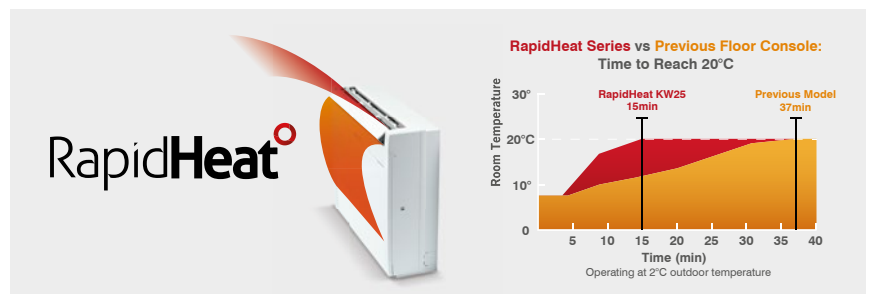
New Zealand's quietest floor consoles\* feature a contemporary slimline design and dramatically reduced depth. KW RapidHeat Smart Floor Consoles are the perfect solution for unobtrusive heating at floor level with the benefit of Built-in Wi-Fi Control Energy Monitoring. New advanced sensors with Intuitive Control Logic Technology offer unparalleled low temperature heating performance in the shortest amount of time, all while maintaining maximum energy efficiency.



## NZ's Quietest Floor Consoles\*

Starting at barely a whisper, Mitsubishi Electric RapidHeat Smart Floor Consoles are New Zealand's quietest floor console heat pumps starting from just 18dBA\*. This is achieved through the use of a larger fan scroll that not only enables the unit to be quieter, but also increases its efficiency when heating your home.

## RapidHeat Technology



Advanced sensors coupled with Intuitive Control Logic mean optimal running temperatures are reached in the shortest amount of time possible with maximum energy efficiency. Automatically activated at start-up in low temperature conditions when Two-Way Airflow is selected, warm air is blown in a downward direction first before the air is returned back into the indoor unit where it is reheated a second time. As a result, a room can now be heated up to twice as fast compared to our previous model.†

## Sleek, Sophisticated Design

Mitsubishi Electric RapidHeat Smart Floor Consoles feature a new contemporary design that can be recessed into your wall to dramatically reduce the depth of the indoor unit from 215mm to 145mm – a decrease of 33%. With the addition of a removable base, it is the perfect solution offering compact, unobtrusive heating for new buildings, renovation projects and fireplace replacements.



Recessable – reduces depth by 33% (70mm)

Removable base

## More Environmentally Friendly R32 Refrigerant

With a global warming potential that is 30% lower compared to older refrigerants such as R410A, next-generation R32 refrigerant has a much lower environmental impact. Furthermore, zero ozone depleting R32 is easier to reuse and recycle.

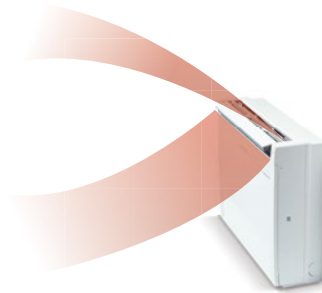
\* MFZ-KW25/35/42 indoor sound level on lowest fan setting in Heating Mode.

† Compared to the previous MFZ-KA Series,

# RapidHeat Smart

## Multi Vane Flow for Even Heat Distribution

The Multi Vane Flow function blows warm air in both an upward and downward direction providing fast, even and effective heating whilst also reducing draughts. This is achieved via three uniquely shaped vanes that are designed for better airflow control and also provide the freedom to be customised to your preference.



## Anti-Allergy Enzyme Filter



In addition to a washable Air Purifying Filter, the RapidHeat Smart Series features an Anti-Allergy Enzyme Filter which utilises enzyme catalysts to filter allergens and remove harmful bacteria.

## 7-Day Programmable Controller

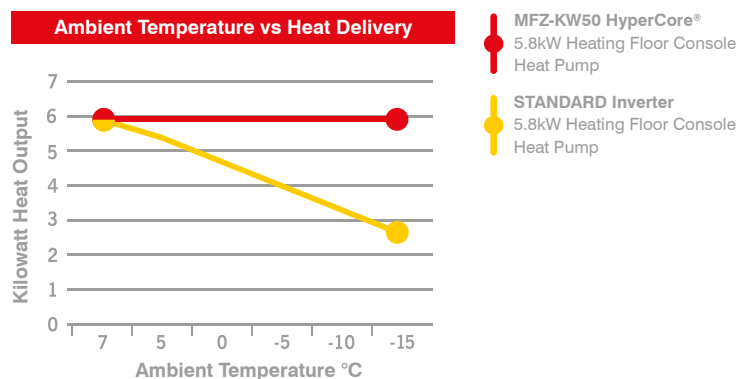


All RapidHeat Smart Series Floor Consoles feature a built-in weekly timer, allowing you to program up to four time and temperature settings for each day of the week. You can now return to comfort without having to manually adjust the temperature. Perfect for anyone with a busy lifestyle, the 7-Day Controller is a great way to regulate your energy usage without compromising on comfort.

## Optional HyperCore Technology\*



RapidHeat Smart Series Floor Consoles are available with optional HyperCore Technology. While ordinary heat pumps produce less heat below 7°C, Mitsubishi Electric HyperCore Technology continues to deliver its full rated heating capacity right down to -15°C, so you stay warm when you need it most. See page 5 for more details on our HyperCore Technology.



## Built-in Wi-Fi Control Energy Monitoring



With Built-in Wi-Fi Control you can pre-heat or cool a room no matter where you are. On the way home, running late, coming home early, or even when you're in a different country, with Wi-Fi Control you'll always arrive home to total comfort.

The intuitive app also features Energy Monitoring, allowing you to track indicative energy use so you can make more energy efficient choices when heating and cooling your space. See pages 6–7 for more details on Wi-Fi Control.

\* 5.0kW and 6.1kW models only.



Dimensions (WxDxH): 750 x 215 x 600mm

### MFZ-KW25VGK

Heating Capacity: 3.4 kW | Cooling Capacity: 2.5 kW

### MFZ-KW35VGK

Heating Capacity: 4.3 kW | Cooling Capacity: 3.5 kW

### MFZ-KW42VGK

Heating Capacity: 5.4 kW | Cooling Capacity: 4.2 kW

### MFZ-KW50VGK

Heating Capacity: 5.8 kW | Cooling Capacity: 5.0 kW

### MFZ-KW60VGK

Heating Capacity: 6.5 kW | Cooling Capacity: 6.1 kW

### HYPERCORE®

### MFZ-KW50VGKHZ

Heating Capacity: 5.8 kW | Cooling Capacity: 5.0 kW

### MFZ-KW60VGKHZ

Heating Capacity: 6.5 kW | Cooling Capacity: 6.1 kW



## HYPERCORE

**BUILT-IN**  
**Wi-Fi**  
**CONTROL**

**energy**  
**MONITORING**



# Specifications

| QUICK<br>GLANCE                   | TYPE  |                              | High Wall System                              |                              |                              |                              |                              |                              |                  |     |     |     |     |     |
|-----------------------------------|---|------------------------------|---|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------|-----|-----|-----|-----|-----|
|                                   | SERIES  |                              | GS Standard Series                            |                              |                              |                              |                              |                              |                  |     |     |     |     |     |
|                                   | MODEL   |                              | MSZ-GS25                                      | MSZ-GS35                     | MSZ-GS50                     | MSZ-GS60                     | MSZ-GS71                     | MSZ-GS80                     |                  |     |     |     |     |     |
|                                   | REFRIGERANT   |                              | R32   |                              |                              |                              |                              |                              |                  |     |     |     |     |     |
|                                   | INDOOR UNIT   |                              | MSZ-GS25VFD                                   | MSZ-GS35VFD                  | MSZ-GS50VFD                  | MSZ-GS60VFD                  | MSZ-GS71VFD                  | MSZ-GS80VFD                  |                  |     |     |     |     |     |
|                                   | OUTDOOR UNIT  |                              | MUZ-GS25VFD                                   | MUZ-GS35VFD                  | MUZ-GS50VFD                  | MUZ-GS60VFD                  | MUZ-GS71VFD                  | MUZ-GS80VFD                  |                  |     |     |     |     |     |
|                                   | COOL  |                              | 2.5kW<br>4.24 EER<br>22 dBA*                  | 3.5kW<br>3.68 EER<br>22 dBA* | 5.0kW<br>3.60 EER<br>33 dBA* | 6.0kW<br>3.61 EER<br>33 dBA* | 7.1kW<br>3.24 EER<br>33 dBA* | 7.8kW<br>3.25 EER<br>33 dBA* |                  |     |     |     |     |     |
| HEAT                              |   | 3.1kW<br>3.97 COP<br>23 dBA* | 3.7kW<br>3.94 COP<br>23 dBA*                  | 5.5kW<br>3.85 COP<br>33 dBA* | 6.6kW<br>3.88 COP<br>33 dBA* | 8.0kW<br>3.64 COP<br>33 dBA* | 9.0kW<br>3.53 COP<br>33 dBA* |                              |                  |     |     |     |     |     |
| ZERL<br>STAR<br>RATINGS           | (NZ) Cold Area  |                              | 2.5   | 2.0                          | 3.0                          | 2.0                          | 3.5                          | 2.0                          | 3.5              | 2.0 | 3.0 | 2.0 | 3.0 | 2.0 |
|                                   | Avg Area <sup>‡</sup>                                   |                              | 2.5   | 2.5                          | 3.0                          | 2.0                          | 3.0                          | 2.5                          | 3.0              | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
|                                   | Hot Area <sup>‡</sup>                                   |                              | 3.0   | 3.0                          | 3.5                          | 2.5                          | 3.5                          | 3.0                          | 3.5              | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| COOL                              | Capacity  | Rated                        | [kW]  | 2.5                          | 3.5                          | 5.0                          | 6.0                          | 7.1                          | 7.8              |     |     |     |     |     |
|                                   |   | Min-Max                      | [kW]  | 1.1-3.0                      | 1.1-3.7                      | 1.4-5.5                      | 1.4-6.8                      | 1.4-7.3                      | 2.0-9.0          |     |     |     |     |     |
|                                   | Total Input   | Rated                        | [kW]  | 0.59                         | 0.95                         | 1.39                         | 1.66                         | 2.19                         | 2.40             |     |     |     |     |     |
|                                   | EER/AEER  |                              |   | 4.24 / 4.12                  | 3.68 / 3.62                  | 3.60 / 3.55                  | 3.61 / 3.58                  | 3.24 / 3.22                  | 3.25 / 3.23      |     |     |     |     |     |
|                                   | Indoor Sound Level                                      | Quiet                        | [dBA]   | -                            | -                            | -                            | -                            | -                            | -                |     |     |     |     |     |
|                                   |   | Low-SHi <sup>‡</sup>         | [dBA]   | 22-30-37-44                  | 22-31-40-51                  | 33-38-44-49                  | 33-38-44-50                  | 33-38-44-50                  | 33-38-44-53      |     |     |     |     |     |
|                                   | Running Current (Rated)                                 | [A]                          | 2.8   | 4.3                          | 6.2                          | 7.4                          | 9.7                          | 10.5                         |                  |     |     |     |     |     |
| Air Volume In (SHI <sup>†</sup> ) | [L/s]   | 163                          | 223   | 308                          | 322                          | 317                          | 342                          |                              |                  |     |     |     |     |     |
| HEAT                              | Capacity  | Rated                        | [kW]  | 3.1                          | 3.7                          | 5.5                          | 6.6                          | 8.0                          | 9.0              |     |     |     |     |     |
|                                   |   | Min-Max                      | [kW]  | 1.3-3.8                      | 1.3-4.3                      | 1.4-6.5                      | 2.0-7.5                      | 2.0-8.6                      | 2.2-10.0         |     |     |     |     |     |
|                                   |   | @-15°C                       | [kW]  | -                            | -                            | -                            | -                            | -                            | -                |     |     |     |     |     |
|                                   | Total Input   | Rated                        | [kW]  | 0.78                         | 0.94                         | 1.43                         | 1.70                         | 2.20                         | 2.55             |     |     |     |     |     |
|                                   | COP / ACOP  |                              |   | 3.97 / 3.89                  | 3.94 / 3.87                  | 3.85 / 3.80                  | 3.88 / 3.84                  | 3.64 / 3.61                  | 3.53 / 3.51      |     |     |     |     |     |
|                                   | Indoor Sound Level                                      | Quiet                        | [dBA]   | -                            | -                            | -                            | -                            | -                            | -                |     |     |     |     |     |
|                                   |   | Low-SHi <sup>‡</sup>         | [dBA]   | 23-30-37-44                  | 23-30-37-45                  | 33-38-44-49                  | 33-38-44-49                  | 33-39-45-51                  | 33-39-45-51      |     |     |     |     |     |
| Running Current (Rated)           | [A]   | 3.7                          | 4.3   | 6.4                          | 7.6                          | 10.0                         | 11.9                         |                              |                  |     |     |     |     |     |
| Air Volume In (SHI <sup>†</sup> ) | [L/s]   | 172                          | 178   | 308                          | 322                          | 317                          | 317                          |                              |                  |     |     |     |     |     |
| Controller                        | Standard  |                              | 12 Hour Programmable Controller               |                              |                              |                              |                              |                              |                  |     |     |     |     |     |
|                                   | Optional Wired 7-Day Timer                              |                              | Optional: PAR Controller (Interface Required) |                              |                              |                              |                              |                              |                  |     |     |     |     |     |
| Wi-Fi                             |   |                              | Optional: MAC-588IF-E                         |                              |                              |                              |                              |                              |                  |     |     |     |     |     |
| Power Supply                      | (Powered From Outdoor Unit)                             |                              | 230 V / Single Phase / 50 Hz                  |                              |                              |                              |                              |                              |                  |     |     |     |     |     |
|                                   | Maximum Current   | [A]                          | 7.3   | 7.3                          | 13.5                         | 13.5                         | 13.5                         | 17.5                         |                  |     |     |     |     |     |
| Indoor                            | Dimensions (WxDxH)                                      | [mm]                         | 799 x 232 x 290                               |                              |                              | 923 x 250 x 305              |                              |                              | 1100 x 238 x 325 |     |     |     |     |     |
|                                   | Weight  | [kg]                         | 8.5   | 8.5                          | 12.3                         | 12.3                         | 15.2                         | 15.2                         |                  |     |     |     |     |     |
| Outdoor                           | Dimensions (WxDxH)                                      | [mm]                         | 800 x 285 x 550                               |                              |                              | 800 x 285 x 714              |                              |                              | 840 x 330 x 880  |     |     |     |     |     |
|                                   | Weight  | [kg]                         | 28  | 28.5                         | 41                           | 41                           | 53                           | 53                           |                  |     |     |     |     |     |
|                                   | Sound Level - SPL <sup>§</sup> /Power (Cooling-Heating) | [dBA]                        | 47-48 / 60-61                                 | 51-51 / 64-64                | 53-56 / 66-69                | 53-57 / 66-69                | 56-57 / 69-69                | 56-57 / 69-69                |                  |     |     |     |     |     |
| Piping                            | Diameter (Liquid/Gas)                                   | [mm]                         | 6.35 / 9.52                                   | 6.35 / 9.52                  | 6.35 / 12.70                 | 6.35 / 12.70                 | 6.35 / 12.70                 | 6.35 / 12.70                 |                  |     |     |     |     |     |
|                                   | Max. Length/Height <sup>†</sup>                         | [m]                          | 20 / 12                                       | 20 / 12                      | 30 / 15                      | 30 / 15                      | 30 / 15                      | 30 / 15                      |                  |     |     |     |     |     |
|                                   | Chargeless Piping Length                                | [m]                          | 10  | 10                           | 15                           | 15                           | 15                           | 15                           |                  |     |     |     |     |     |
| Operation Range Outdoor           | Cooling   | [°C]                         | -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                       |                  |     |     |     |     |     |
| Indoor Unit Colour                |   |                              | White   |                              |                              |                              |                              |                              |                  |     |     |     |     |     |

ZERL = Zoned Energy Rating Label  
 EER = Energy Efficiency Ratio  
 COP = Coefficient of Performance  
 AEER = Annual Energy Efficiency Ratio  
 ACOP = Annual Coefficient of Performance

SPL = Sound Pressure Level  
<sup>†</sup> SHi = Super High  
<sup>‡</sup> Low-SHi = Low-Medium-High-Super High  
<sup>§</sup> SPL measured under rated operating frequency  
 \* Indoor Sound Levels rated at lowest fan speed.

† 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.  
<sup>‡</sup> Avg/Hot are Australia only.  
 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.

| QUICK<br>GLANCE                   | TYPE  |                      | High Wall System  |                              |                                       |                              |                              |                              |                              |                              |                               |             |     |                  |     |     |      |     |     |     |     |
|-----------------------------------|---|----------------------|---|------------------------------|---------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|-------------|-----|------------------|-----|-----|------|-----|-----|-----|-----|
|                                   | SERIES  |                      | AP Mini   |                              | AP Classic Series and AP Smart Series |                              |                              |                              |                              |                              |                               |             |     |                  |     |     | AS90 |     |     |     |     |
|                                   | MODEL   |                      | MSZ-AP20  | MSZ-AP25                     | MSZ-AP35                              | MSZ-AP42                     | MSZ-AP50                     | MSZ-AP60                     | MSZ-AP71                     | MSZ-AP80                     | MSZ-AS90                      |             |     |                  |     |     |      |     |     |     |     |
|                                   | REFRIGERANT   |                      | R32   |                              |                                       |                              |                              |                              |                              |                              |                               |             |     |                  |     |     |      |     |     |     |     |
|                                   | INDOOR UNIT   |                      | MSZ-AP20VGD   | MSZ-AP25VG(K)D2              | MSZ-AP35VG(K)D2                       | MSZ-AP42VG(K)D2              | MSZ-AP50VG(K)D2              | MSZ-AP60VG(K)D2              | MSZ-AP71VG(K)D2              | MSZ-AP80VG(K)D2              | MSZ-AS90VGD                   |             |     |                  |     |     |      |     |     |     |     |
|                                   | OUTDOOR UNIT  |                      | MUZ-AP20VGD   | MUZ-AP25VG2                  | MUZ-AP35VG2                           | MUZ-AP42VG2                  | MUZ-AP50VG2                  | MUZ-AP60VG2                  | MUZ-AP71VG2                  | MUZ-AP80VG2                  | MUZ-AS90VGD                   |             |     |                  |     |     |      |     |     |     |     |
|                                   | COOL  |                      | 2.0kW<br>4.35 EER<br>21 dBA*  | 2.5kW<br>5.00 EER<br>19 dBA* | 3.5kW<br>4.02 EER<br>19 dBA*          | 4.2kW<br>3.53 EER<br>26 dBA* | 5.0kW<br>3.79 EER<br>28 dBA* | 6.0kW<br>3.77 EER<br>29 dBA* | 7.1kW<br>3.53 EER<br>30 dBA* | 7.8kW<br>3.31 EER<br>30 dBA* | 9.0kW<br>3.24 EER<br>30 dBA*  |             |     |                  |     |     |      |     |     |     |     |
|                                   | HEAT  |                      | 2.5kW<br>4.17 COP<br>21 dBA*  | 3.2kW<br>4.78 COP<br>18 dBA* | 3.7kW<br>4.51 COP<br>19 dBA*          | 5.4kW<br>3.78 COP<br>26 dBA* | 6.0kW<br>3.70 COP<br>28 dBA* | 6.8kW<br>4.12 COP<br>29 dBA* | 8.0kW<br>3.83 COP<br>30 dBA* | 9.0kW<br>3.53 COP<br>30 dBA* | 10.3kW<br>3.50 COP<br>32 dBA* |             |     |                  |     |     |      |     |     |     |     |
|                                   | ZERL<br>STAR<br>RATINGS                                 |                      | (NZ) Cold Area  | 3.5                          | 2.0                                   | 6.0                          | 3.0                          | 5.0                          | 3.0                          | 4.0                          | 2.0                           | 4.5         | 2.0 | 4.5              | 2.5 | 3.5 | 2.0  | 3.5 | 2.0 | 3.5 | 2.0 |
|                                   |   |                      | Avg Area†   | 3.5                          | 2.5                                   | 5.5                          | 3.0                          | 4.5                          | 3.5                          | 4.0                          | 2.5                           | 4.0         | 2.5 | 4.0              | 2.5 | 3.0 | 2.5  | 3.0 | 2.5 | 3.0 | 2.5 |
|                                   |   | Hot Area†            | 3.5   | 3.0                          | 6.0                                   | 3.5                          | 5.0                          | 4.0                          | 4.0                          | 3.5                          | 4.5                           | 3.5         | 4.5 | 3.0              | 3.5 | 3.0 | 3.5  | 3.0 | 3.5 | 3.0 |     |
| COOL                              | Capacity  | Rated                | [kW]  | 2.0                          | 2.5                                   | 3.5                          | 4.2                          | 5.0                          | 6.0                          | 7.1                          | 7.8                           | 9.0         |     |                  |     |     |      |     |     |     |     |
|                                   |   | Min-Max              | [kW]  | 0.6-2.7                      | 1.1-3.6                               | 1.1-4.1                      | 0.9-4.8                      | 1.4-6.2                      | 1.4-7.3                      | 2.0-8.7                      | 2.0-9.2                       | 1.35-10.30  |     |                  |     |     |      |     |     |     |     |
|                                   | Total Input   | Rated                | [kW]  | 0.46                         | 0.50                                  | 0.87                         | 1.19                         | 1.32                         | 1.59                         | 2.01                         | 2.36                          | 2.78        |     |                  |     |     |      |     |     |     |     |
|                                   |   | EER/AEER             |   | 4.35 / 4.31                  | 5.00 / 4.97                           | 4.02 / 4.01                  | 3.53 / 3.52                  | 3.79 / 3.78                  | 3.77 / 3.77                  | 3.53 / 3.53                  | 3.31 / 3.30                   | 3.24 / 3.23 |     |                  |     |     |      |     |     |     |     |
|                                   | Indoor Sound Level                                      | Quiet                | [dBA]   | 21                           | 19                                    | 19                           | 26                           | 28                           | 29                           | 30                           | 30                            | 30          |     |                  |     |     |      |     |     |     |     |
|                                   |   | Low-SHi <sup>2</sup> | [dBA]   | 26-30-35-42                  | 24-31-38-44                           | 24-31-38-45                  | 29-35-40-46                  | 33-39-44-49                  | 37-41-45-48                  | 37-41-45-49                  | 37-41-45-53                   | 36-42-48-54 |     |                  |     |     |      |     |     |     |     |
|                                   | Running Current (Rated)                                 | [A]                  | 2.6   | 2.6                          | 4.1                                   | 5.3                          | 5.9                          | 7.1                          | 8.8                          | 10.8                         | 12.0                          |             |     |                  |     |     |      |     |     |     |     |
| Air Volume In (SHi <sup>1</sup> ) | [L/s]   | 115                  | 205   | 223                          | 223                                   | 258                          | 315                          | 310                          | 343                          | 463                          |                               |             |     |                  |     |     |      |     |     |     |     |
| HEAT                              | Capacity  | Rated                | [kW]  | 2.5                          | 3.2                                   | 3.7                          | 5.4                          | 6.0                          | 6.8                          | 8.0                          | 9.0                           | 10.3        |     |                  |     |     |      |     |     |     |     |
|                                   |   | Min-Max              | [kW]  | 0.5-3.5                      | 1.3-5.0                               | 1.3-5.1                      | 1.3-6.0                      | 1.4-8.0                      | 2.0-8.6                      | 2.2-9.9                      | 2.2-11.0                      | 1.60-11.5   |     |                  |     |     |      |     |     |     |     |
|                                   |   | @-15°C               | [kW]  | -                            | -                                     | -                            | -                            | -                            | -                            | -                            | -                             | -           |     |                  |     |     |      |     |     |     |     |
|                                   | Total Input   | Rated                | [kW]  | 0.60                         | 0.67                                  | 0.82                         | 1.43                         | 1.62                         | 1.65                         | 2.09                         | 2.55                          | 2.94        |     |                  |     |     |      |     |     |     |     |
|                                   |   | COP / ACOP           |   | 4.17 / 4.14                  | 4.78 / 4.75                           | 4.51 / 4.49                  | 3.78 / 3.77                  | 3.70 / 3.70                  | 4.12 / 4.11                  | 3.83 / 3.82                  | 3.53 / 3.53                   | 3.50 / 3.50 |     |                  |     |     |      |     |     |     |     |
|                                   | Indoor Sound Level                                      | Quiet                | [dBA]   | 21                           | 18                                    | 19                           | 26                           | 28                           | 29                           | 30                           | 30                            | 32          |     |                  |     |     |      |     |     |     |     |
|                                   |   | Low-SHi <sup>2</sup> | [dBA]   | 26-30-35-42                  | 25-31-38-42                           | 25-31-38-45                  | 29-35-40-46                  | 33-38-43-48                  | 37-41-45-48                  | 37-41-45-51                  | 37-41-45-51                   | 38-43-47-53 |     |                  |     |     |      |     |     |     |     |
|                                   | Running Current (Rated)                                 | [A]                  | 3.2   | 3.3                          | 3.8                                   | 6.3                          | 7.1                          | 7.3                          | 9.1                          | 11.3                         | 12.6                          |             |     |                  |     |     |      |     |     |     |     |
| Air Volume In (SHi <sup>1</sup> ) | [L/s]   | 122                  | 190   | 215                          | 233                                   | 268                          | 338                          | 320                          | 320                          | 430                          |                               |             |     |                  |     |     |      |     |     |     |     |
| Controller                        | Standard  |                      | 7-Day Programmable Controller   |                              |                                       |                              |                              |                              |                              |                              |                               |             |     |                  |     |     |      |     |     |     |     |
|                                   | Optional Wired 7-Day Timer                              |                      | Optional: PAR Controller (Interface Required)   |                              |                                       |                              |                              |                              |                              |                              |                               |             |     |                  |     |     |      |     |     |     |     |
| Wi-Fi                             |   |                      | Optional MAC-588IF-E upgrade for AP Mini, AP Classic Series & AS90 / Built-In to AP Smart Series with Energy Monitoring |                              |                                       |                              |                              |                              |                              |                              |                               |             |     |                  |     |     |      |     |     |     |     |
| Power Supply                      | (Powered From Outdoor Unit)                             |                      | 230 V / Single Phase / 50 Hz  |                              |                                       |                              |                              |                              |                              |                              |                               |             |     |                  |     |     |      |     |     |     |     |
|                                   | Maximum Current   | [A]                  | 7.1   | 7.0                          | 7.1                                   | 9.9                          | 14.0                         | 14.0                         | 16.4                         | 16.5                         | 17.9                          |             |     |                  |     |     |      |     |     |     |     |
| Indoor                            | Dimensions (WxDxH)                                      | [mm]                 | 760 x 178 x 250   | 798 x 219 x 299              |                                       |                              |                              |                              |                              | 1100 x 257 x 325             |                               |             |     | 1170 x 295 x 365 |     |     |      |     |     |     |     |
|                                   | Weight  | [kg]                 | 8.2   | 10.5                         |                                       |                              |                              |                              |                              | 16                           |                               |             |     | 17               |     |     |      | 20  |     |     |     |
| Outdoor                           | Dimensions (WxDxH)                                      | [mm]                 | 800 x 285 x 550   |                              |                                       |                              | 800 x 285 x 714              |                              |                              |                              | 840 x 330 x 880               |             |     |                  |     |     |      |     |     |     |     |
|                                   | Weight  | [kg]                 | 31  | 35                           |                                       |                              | 36                           |                              | 41                           |                              |                               | 55          |     |                  |     | 53  |      |     |     |     |     |
|                                   | Sound Level - SPL <sup>3</sup> /Power (Cooling-Heating) | [dBA]                | 47-48 / 59-61   | 46-49 / 59-59                | 50-50 / 64-64                         | 51-52 / 65-65                | 54-56 / 69-69                | 55-57 / 69-69                | 56-55 / 69-69                | 56-55 / 69-69                | 56-56 / 69-69                 |             |     |                  |     |     |      |     |     |     |     |
| Piping                            | Diameter (Liquid/Gas)                                   | [mm]                 | 6.35 / 9.52   | 6.35 / 9.52                  | 6.35 / 9.52                           | 6.35 / 9.52                  | 6.35 / 12.7                  | 6.35 / 12.7                  | 6.35 / 12.7                  | 6.35 / 12.7                  | 6.35 / 12.7                   |             |     |                  |     |     |      |     |     |     |     |
|                                   | Max. Length/Height†                                     | [m]                  | 20 / 12   | 20 / 12                      | 20 / 12                               | 20 / 12                      | 20 / 12                      | 30 / 15                      | 30 / 15                      | 30 / 15                      | 30 / 15                       |             |     |                  |     |     |      |     |     |     |     |
|                                   | Chargeless Piping Length                                | [m]                  | 7   | 10                           | 10                                    | 10                           | 15                           | 15                           | 15                           | 15                           | 15                            |             |     |                  |     |     |      |     |     |     |     |
| 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                     | -15 / 24                     | -15 / 24                      |             |     |                  |     |     |      |     |     |     |     |
| Indoor Unit Colour                |   |                      | White   |                              |                                       |                              |                              |                              |                              |                              |                               |             |     |                  |     |     |      |     |     |     |     |

ZERL = Zoned Energy Rating Label  
 EER = Energy Efficiency Ratio  
 COP = Coefficient of Performance  
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SPL = Sound Pressure Level  
<sup>1</sup> SHi = Super High  
<sup>2</sup> Low-SHi = Low-Medium-High-Super High  
<sup>3</sup> SPL measured under rated operating frequency  
 \* Indoor Sound Levels rated at lowest fan speed.

† 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.  
 ‡ Avg/Hot are Australia only.  
 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.

# Specifications

| QUICK<br>GLANCE                   | TYPE  |                      | High Wall System                              |              |                              |              |                              |              |                              |             |     |     |
|-----------------------------------|---|----------------------|---|--------------|------------------------------|--------------|------------------------------|--------------|------------------------------|-------------|-----|-----|
|                                   | SERIES  |                      | EF Designer Smart Series                      |              |                              |              |                              |              |                              |             |     |     |
|                                   | MODEL   |                      | MSZ-EF25                                      | MSZ-EF35     |                              | MSZ-EF42     |                              | MSZ-EF50     |                              |             |     |     |
|                                   | REFRIGERANT   |                      | R32   |              |                              |              |                              |              |                              |             |     |     |
|                                   | INDOOR UNIT   |                      | MSZ-EF25VGKD                                  | MSZ-EF35VGKD |                              | MSZ-EF42VGKD |                              | MSZ-EF50VGKD |                              |             |     |     |
|                                   | OUTDOOR UNIT  |                      | MUZ-EF25VGD                                   | MUZ-EF35VGD  |                              | MUZ-EF42VGD  |                              | MUZ-EF50VGD  |                              |             |     |     |
|                                   | COOL  |                      | 2.5kW<br>4.63 EER<br>19 dBA*                  |              | 3.5kW<br>3.85 EER<br>21 dBA* |              | 4.2kW<br>3.50 EER<br>28 dBA* |              | 5.0kW<br>3.23 EER<br>30 dBA* |             |     |     |
|                                   | HEAT  |                      | 3.2kW<br>4.57 COP<br>21 dBA*                  |              | 4.0kW<br>4.21 COP<br>21 dBA* |              | 5.4kW<br>3.71 COP<br>28 dBA* |              | 5.8kW<br>3.72 COP<br>30 dBA* |             |     |     |
|                                   | ZERL<br>STAR<br>RATINGS                                 |                      | (NZ) Cold Area                                |              | 4.0                          | 2.5          | 3.5                          | 2.0          | 3.0                          | 2.0         | 3.0 | 2.0 |
|                                   |   |                      | Avg Area <sup>‡</sup>                         |              | 4.0                          | 2.5          | 3.5                          | 2.5          | 3.0                          | 2.5         | 3.0 | 2.5 |
| Hot Area <sup>‡</sup>             |   |                      | 4.5   | 3.0          | 3.5                          | 3.0          | 3.0                          | 3.0          | 3.0                          | 2.5         |     |     |
| COOL                              | Capacity  | Rated                | [kW]  | 2.5          |                              | 3.5          |                              | 4.2          |                              | 5.0         |     |     |
|                                   |   | Min-Max              | [kW]  | 0.9 - 3.4    |                              | 1.1 - 4.0    |                              | 0.9 - 4.6    |                              | 1.4 - 5.4   |     |     |
|                                   | Total Input   | Rated                | [kW]  | 0.54         |                              | 0.91         |                              | 1.20         |                              | 1.55        |     |     |
|                                   |   | EER/AEER             |   | 4.63 / 4.60  |                              | 3.85 / 3.83  |                              | 3.50 / 3.49  |                              | 3.23 / 3.22 |     |     |
|                                   | Indoor Sound Level                                      | Quiet                | [dBA]   | 19           |                              | 21           |                              | 28           |                              | 30          |     |     |
|                                   |   | Low-SHI <sup>‡</sup> | [dBA]   | 23-29-36-42  |                              | 24-30-36-42  |                              | 31-35-39-43  |                              | 33-36-40-43 |     |     |
|                                   | Running Current (Rated)                                 | [A]                  | 3.0   |              | 4.2                          |              | 5.4                          |              | 6.9                          |             |     |     |
|                                   | Air Volume In (SHI <sup>‡</sup> )                       | [L/s]                | 175   |              | 175                          |              | 187                          |              | 188                          |             |     |     |
| HEAT                              | Capacity  | Rated                | [kW]  | 3.2          |                              | 4.0          |                              | 5.4          |                              | 5.8         |     |     |
|                                   |   | Min-Max              | [kW]  | 1.0-4.2      |                              | 1.3-5.1      |                              | 1.3-6.3      |                              | 1.4-7.5     |     |     |
|                                   |   | @-15°C               | [kW]  | -            |                              | -            |                              | -            |                              | -           |     |     |
|                                   | Total Input   | Rated                | [kW]  | 0.70         |                              | 0.95         |                              | 1.46         |                              | 1.56        |     |     |
|                                   | COP / ACOP  |                      |   | 4.57 / 4.55  |                              | 4.21 / 4.20  |                              | 3.71 / 3.70  |                              | 3.72 / 3.71 |     |     |
|                                   | Indoor Sound Level                                      | Quiet                | [dBA]   | 21           |                              | 21           |                              | 28           |                              | 30          |     |     |
|                                   |   | Low-SHI <sup>‡</sup> | [dBA]   | 24-29-37-45  |                              | 24-30-38-46  |                              | 30-35-41-48  |                              | 33-37-43-49 |     |     |
|                                   | Running Current (Rated)                                 | [A]                  | 3.5   |              | 4.4                          |              | 6.5                          |              | 7.1                          |             |     |     |
| Air Volume In (SHI <sup>‡</sup> ) | [L/s]   | 198                  |   | 212          |                              | 220          |                              | 243          |                              |             |     |     |
| Controller                        | Standard  |                      | 7-Day Programmable Controller                 |              |                              |              |                              |              |                              |             |     |     |
|                                   | Optional Wired 7-Day Timer                              |                      | Optional: PAR Controller (Interface Required) |              |                              |              |                              |              |                              |             |     |     |
| Wi-Fi                             |   |                      | Built-in with Energy Monitoring               |              |                              |              |                              |              |                              |             |     |     |
| Power Supply                      | (Powered From Outdoor Unit)                             |                      | 230 V / Single Phase / 50 Hz                  |              |                              |              |                              |              |                              |             |     |     |
|                                   | Maximum Current   | [A]                  | 7.1   |              | 7.1                          |              | 10.0                         |              | 14.0                         |             |     |     |
| Indoor                            | Dimensions (WxDxH)                                      | [mm]                 | 885 x 195 x 299                               |              |                              |              |                              |              |                              |             |     |     |
|                                   | Weight  | [kg]                 | 11.5  |              |                              |              |                              |              |                              |             |     |     |
| Outdoor                           | Dimensions (WxDxH)                                      | [mm]                 | 800 x 285 x 550                               |              |                              |              | 800 x 285 x 714              |              |                              |             |     |     |
|                                   | Weight  | [kg]                 | 31  |              | 34                           |              | 35                           |              | 40                           |             |     |     |
|                                   | Sound Level - SPL <sup>§</sup> /Power (Cooling-Heating) | [dBA]                | 47-48 / 58-61                                 |              | 49-50 / 62-63                |              | 50-51 / 62-64                |              | 52-52 / 65-65                |             |     |     |
| Piping                            | Diameter (Liquid/Gas)                                   | [mm]                 | 6.35 / 9.52                                   |              | 6.35 / 9.52                  |              | 6.35 / 9.52                  |              | 6.35 / 9.52                  |             |     |     |
|                                   | Max. Length/Height <sup>†</sup>                         | [m]                  | 20 / 12                                       |              | 20 / 12                      |              | 20 / 12                      |              | 30 / 15                      |             |     |     |
|                                   | Chargeless Piping Length                                | [m]                  | 7   |              | 7                            |              | 7                            |              | 7                            |             |     |     |
| Operation Range Outdoor           | Cooling   | [°C]                 | -10 / 46                                      |              | -10 / 46                     |              | -10 / 46                     |              | -10 / 46                     |             |     |     |
|                                   | Heating   | [°C]                 | -15 / 24                                      |              | -15 / 24                     |              | -15 / 24                     |              | -15 / 24                     |             |     |     |
| Indoor Unit Colour                |   |                      | Black Diamond / Matte Silver / Pure White     |              |                              |              |                              |              |                              |             |     |     |

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SPL = Sound Pressure Level  
<sup>‡</sup> SHI = Super High  
<sup>‡</sup> Low-SHI = Low-Medium-High-Super High  
<sup>§</sup> SPL measured under rated operating frequency  
 \* Indoor Sound Levels rated at lowest fan speed.

<sup>†</sup> 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.  
<sup>‡</sup> Avg/Hot are Australia only.  
 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.

| QUICK<br>GLANCE            |  | TYPE  |  | High Wall System   |             |                              |             |                              |             |  |   |                                   |            |                              |                 |                 |                 |                 |                 |               |                 |  |  |  |  |  |
|----------------------------|--|---|--|--|-------------|------------------------------|-------------|------------------------------|-------------|--|---|-----------------------------------|------------|------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------|-----------------|--|--|--|--|--|
|                            |  | SERIES                                      |  | LN Black Diamond Smart Series                              |             |                              |             |                              |             | LN Black Diamond Smart Series with HyperCore |   |                                   |            |                              |                 |                 |                 |                 |                 |               |                 |  |  |  |  |  |
|                            |  | MODEL                                       |  | MSZ-LN25   |             | MSZ-LN35                     |             | MSZ-LN50                     |             | MSZ-LN60                                     |   | MSZ-LN25HZ                        |            | MSZ-LN35HZ                   |                 | MSZ-LN50HZ      |                 |                 |                 |               |                 |  |  |  |  |  |
|                            |  | REFRIGERANT                                 |  | R32  |             |                              |             |                              |             |  |   |                                   |            |                              |                 |                 |                 |                 |                 |               |                 |  |  |  |  |  |
| INDOOR UNIT                |  | MSZ-LN25VG2                                 |  | MSZ-LN35VG2  |             | MSZ-LN50VG3                  |             | MSZ-LN60VG3                  |             | MSZ-LN25VG2                                  |   | MSZ-LN35VG2                       |            | MSZ-LN50VG3                  |                 |                 |                 |                 |                 |               |                 |  |  |  |  |  |
| OUTDOOR UNIT               |  | MUZ-LN25VG2                                 |  | MUZ-LN35VG2  |             | MUZ-LN50VG3                  |             | MUZ-LN60VG2                  |             | MUZ-LN25VGHZ2                                |   | MUZ-LN35VGHZ2                     |            | MUZ-LN50VGHZ2                |                 |                 |                 |                 |                 |               |                 |  |  |  |  |  |
| COOL                       |  | 2.5kW<br>5.10 EER<br>19 dBA*                |  | 3.5kW<br>4.27 EER<br>19 dBA*                               |             | 5.0kW<br>3.62 EER<br>27 dBA* |             | 6.1kW<br>3.53 EER<br>29 dBA* |             | 2.5kW<br>5.10 EER<br>19 dBA*                 |   | 3.5kW<br>4.27 EER<br>19 dBA*      |            | 5.0kW<br>3.62 EER<br>27 dBA* |                 |                 |                 |                 |                 |               |                 |  |  |  |  |  |
| HEAT                       |  | 3.2kW<br>5.33 COP<br>19 dBA*                |  | 4.0kW<br>4.88 COP<br>19 dBA*                               |             | 6.0kW<br>4.05 COP<br>25 dBA* |             | 6.8kW<br>3.78 COP<br>29 dBA* |             | 3.2kW<br>5.33 COP<br>19 dBA*                 |   | 4.0kW<br>4.88 COP<br>19 dBA*      |            | 6.0kW<br>4.00 COP<br>25 dBA* |                 |                 |                 |                 |                 |               |                 |  |  |  |  |  |
| ZERL<br>STAR<br>RATINGS    |  | (NZ) Cold Area                              |  | 5.0  | 3.0         | 4.5                          | 3.0         | 3.5                          | 2.0         | 3.0  | 2.0   | 5.0                               | 3.0        | 4.0                          | 3.0             | 3.5             | 2.5             |                 |                 |               |                 |  |  |  |  |  |
|                            |  | Avg Area <sup>‡</sup>                       |  | 4.5  | 3.5         | 4.0                          | 3.5         | 3.5                          | 2.5         | 3.0  | 2.5   | 4.5                               | 3.5        | 4.0                          | 3.5             | 3.0             | 2.5             |                 |                 |               |                 |  |  |  |  |  |
|                            |  | Hot Area <sup>‡</sup>                       |  | 5.0  | 4.0         | 4.5                          | 3.5         | 3.5                          | 3.0         | 3.0  | 3.0   | 5.0                               | 4.0        | 4.0                          | 3.5             | 3.5             | 3.0             |                 |                 |               |                 |  |  |  |  |  |
| COOL                       |  | Capacity                                    |  | Rated  | [kW]        | 2.5                          | 3.5         | 5.0                          | 6.1         | 2.5  | 3.5   | 5.0                               | Min-Max    | [kW]                         | 1.0-3.5         | 0.8-4.0         | 1.0-6.0         | 1.4-6.9         | 0.8-3.5         | 0.8-4.0       | 1.4-5.8         |  |  |  |  |  |
|                            |  | Total Input                                 |  | Rated  | [kW]        | 0.49                         | 0.82        | 1.38                         | 1.73        | 0.49   | 0.82  | 1.38                              | EER/AEER   | 5.10 / 5.07                  | 4.27 / 4.25     | 3.62 / 3.61     | 3.53 / 3.52     | 5.10 / 5.07     | 4.27 / 4.25     | 3.62 / 3.61   |                 |  |  |  |  |  |
| Indoor<br>Sound<br>Level   |  | Quiet                                       |  | [dBA]  | 19          | 19                           | 27          | 29                           | 19          | 19   | 27  | Low-SHi <sup>‡</sup>              |            | [dBA]                        | 23-29-36-42     | 24-29-36-43     | 31-35-39-46     | 37-41-45-49     | 23-29-36-42     | 24-29-36-43   | 31-35-39-46     |  |  |  |  |  |
|                            |  | Running Current (Rated)                     |  | [A]  | 2.7         | 3.8                          | 6.3         | 7.8                          | 2.5         | 3.8  | 6.3   | Air Volume In (SHi <sup>†</sup> ) |            | [L/s]                        | 207             | 217             | 232             | 262             | 207             | 217           | 232             |  |  |  |  |  |
| HEAT                       |  | Capacity                                    |  | Rated  | [kW]        | 3.2                          | 4.0         | 6.0                          | 6.8         | 3.2  | 4.0   | 6.0                               | Min-Max    | [kW]                         | 0.7-5.4         | 0.9-6.3         | 1.0-8.2         | 1.8-9.8         | 0.8-6.3         | 0.9-7.0       | 1.8-9.0         |  |  |  |  |  |
|                            |  | Total Input                                 |  | Rated  | [kW]        | 0.6                          | 0.82        | 1.48                         | 1.80        | 0.60   | 0.82  | 1.50                              | COP / ACOP | 5.33 / 5.30                  | 4.88 / 4.86     | 4.05 / 4.04     | 3.78 / 3.77     | 5.33 / 5.30     | 4.88 / 4.86     | 4.00 / 3.99   |                 |  |  |  |  |  |
| Indoor<br>Sound<br>Level   |  | Quiet                                       |  | [dBA]  | 19          | 19                           | 25          | 29                           | 19          | 19   | 25  | Low-SHi <sup>‡</sup>              |            | [dBA]                        | 24-29-38-45     | 24-29-38-45     | 29-35-43-47     | 37-41-45-49     | 24-29-38-45     | 24-29-38-45   | 29-35-43-47     |  |  |  |  |  |
|                            |  | Running Current (Rated)                     |  | [A]  | 3.4         | 3.8                          | 6.8         | 7.9                          | 3.0         | 3.8  | 6.8   | Air Volume In (SHi <sup>†</sup> ) |            | [L/s]                        | 232             | 232             | 255             | 263             | 232             | 232           | 255             |  |  |  |  |  |
| Controller                 |  | Standard                                    |  | Premium LN 7-Day Programmable Controller and Wi-Fi Control |             |                              |             |                              |             |  |   |                                   |            |                              |                 |                 |                 |                 |                 |               |                 |  |  |  |  |  |
| Wi-Fi                      |  | Optional Wired 7-Day Timer                  |  | Optional: PAR Controller (Interface Required)              |             |                              |             |                              |             |  |   |                                   |            |                              |                 |                 |                 |                 |                 |               |                 |  |  |  |  |  |
| Power Supply               |  | (Powered From Outdoor Unit)                 |  | 230 V / Single Phase / 50 Hz                               |             |                              |             |                              |             |  |   |                                   |            |                              |                 |                 |                 |                 |                 |               |                 |  |  |  |  |  |
| Indoor                     |  | Maximum Current                             |  | [A]  | 7.1         | 9.9                          | 13.8        | 15.2                         | 9.9         | 10.5   | 15.1  | Dimensions (WxDxH)                |            | [mm]                         | 890 x 233 x 307 |                 |                 |                 |                 |               | 890 x 233 x 307 |  |  |  |  |  |
| Outdoor                    |  | Weight                                      |  | [kg]   | 15.5        | 15.5                         | 16.0        | 16.0                         | 15.5        | 16.0   | Dimensions (WxDxH)                                      |                                   | [mm]       | 800 x 285 x 550              | 800 x 285 x 550 | 800 x 285 x 714 | 840 x 330 x 880 | 800 x 285 x 550 | 840 x 330 x 880 |               |                 |  |  |  |  |  |
| Piping                     |  | Weight                                      |  | [kg]   | 33          | 34                           | 40          | 53                           | 34          | 55   | Sound Level - SPL <sup>§</sup> /Power (Cooling-Heating) |                                   | [dBA]      | 46-49 / 60-61                | 49-50 / 61-62   | 51-54 / 64-66   | 55-55 / 65-69   | 46-49 / 60-61   | 49-50 / 61-62   | 51-55 / 64-66 |                 |  |  |  |  |  |
| Operation Range<br>Outdoor |  | Diameter (Liquid/Gas)                       |  | [mm]   | 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 / 9.52   | Max. Length/Height <sup>†</sup>   |            | [m]                          | 20 / 12         | 20 / 12         | 30 / 12         | 30 / 15         | 20 / 12         | 20 / 12       | 30 / 15         |  |  |  |  |  |
|                            |  | Chargeless Piping Length                    |  | [m]  | 10          | 10                           | 15          | 7                            | 10          | 10   | 7   | Cooling                           |            | [°C]                         | -10 / +46       |                 |                 |                 |                 |               | -10 / +46       |  |  |  |  |  |
| Indoor Unit Colour         |  | Heating                                     |  | [°C]   | -15 / +24   |                              |             |                              |             |  | -25 / +24   |                                   |            |                              |                 |                 | -25 / +24       |                 |                 |               |                 |  |  |  |  |  |
|                            |  | Black Diamond / Red Diamond / White Diamond |  |  |             |                              |             |                              |             |  |   |                                   |            |                              |                 |                 |                 |                 |                 |               |                 |  |  |  |  |  |

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<sup>3</sup> SPL measured under rated operating frequency  
 \* Indoor Sound Levels rated at lowest fan speed.

† 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.  
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 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.

# Specifications

| QUICK<br>GLANCE                   | TYPE  |                      | Floor Console System                          |                              |                              |                              |                              |                              |                              |               |     |     |  |     |     |     |     |
|-----------------------------------|---|----------------------|---|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|---------------|-----|-----|--|-----|-----|-----|-----|
|                                   | SERIES  |                      | KW RapidHeat Smart Series                     |                              |                              |                              |                              |                              |                              |               |     |     | KW RapidHeat Smart Series with HyperCore |     |     |     |     |
|                                   | MODEL   |                      | MFZ-KW25                                      | MFZ-KW35                     | MFZ-KW42                     | MFZ-KW50                     | MFZ-KW60                     | MFZ-KW50HZ                   | MFZ-KW60HZ                   |               |     |     |  |     |     |     |     |
|                                   | REFRIGERANT   |                      | R32   |                              |                              |                              |                              |                              |                              |               |     |     |  |     |     |     |     |
|                                   | INDOOR UNIT   |                      | MFZ-KW25VGK                                   | MFZ-KW35GK                   | MFZ-KW42VGK                  | MFZ-KW50VGK                  | MFZ-KW60VGK                  | MFZ-KW50VGK                  | MFZ-KW60VGK                  |               |     |     |  |     |     |     |     |
|                                   | OUTDOOR UNIT  |                      | MUFZ-KW25VG2                                  | MUFZ-KW35VG2                 | MUFZ-KW42VG2                 | MUFZ-KW50VG2                 | MUFZ-KW60VG2                 | MUFZ-KW50VGHZ2               | MUFZ-KW60VGHZ2               |               |     |     |  |     |     |     |     |
|                                   | COOL  |                      | 2.5kW<br>4.38 EER<br>20 dBA*                  | 3.5kW<br>4.02 EER<br>20 dBA* | 4.2kW<br>3.78 EER<br>20 dBA* | 5.0kW<br>3.78 EER<br>27 dBA* | 6.1kW<br>3.52 EER<br>27 dBA* | 5.0kW<br>3.78 EER<br>27 dBA* | 6.1kW<br>3.52 EER<br>27 dBA* |               |     |     |  |     |     |     |     |
|                                   | HEAT  |                      | 3.4kW<br>4.35 COP<br>18 dBA*                  | 4.3kW<br>3.77 COP<br>18 dBA* | 5.4kW<br>3.77 COP<br>18 dBA* | 5.8kW<br>3.79 COP<br>29 dBA* | 6.5kW<br>3.45 COP<br>29 dBA* | 5.8kW<br>3.79 COP<br>29 dBA* | 6.5kW<br>3.45 COP<br>29 dBA* |               |     |     |  |     |     |     |     |
|                                   | ZERL<br>STAR<br>RATINGS                                 |                      | (NZ) Cold Area                                | 3.5                          | 2.5                          | 3.5                          | 2.0                          | 3.0                          | 2.0                          | 2.5           | 2.0 | 2.5 | 2.0                                      | 2.5 | 2.0 | 2.5 | 2.0 |
|                                   |   |                      | Avg Area†                                     | 3.5                          | 2.5                          | 3.0                          | 2.5                          | 2.5                          | 2.5                          | 2.5           | 2.5 | 2.5 | 2.5                                      | 2.5 | 2.5 | 2.5 | 2.5 |
|                                   |   | Hot Area‡            | 4.0   | 3.0                          | 3.5                          | 3.0                          | 3.0                          | 3.0                          | 3.0                          | 3.0           | 2.5 | 3.0 | 3.0                                      | 3.0 | 2.5 | 3.0 |     |
| COOL                              | Capacity  | Rated                | [kW]  | 2.5                          | 3.5                          | 4.2                          | 5.0                          | 6.1                          | 5.0                          | 6.1           |     |     |  |     |     |     |     |
|                                   |   | Min-Max              | [kW]  | 0.7 - 3.4                    | 0.7 - 3.8                    | 0.7 - 5.0                    | 1.0 - 5.7                    | 1.0 - 6.5                    | 1.0 - 5.7                    | 1.0 - 6.5     |     |     |  |     |     |     |     |
|                                   | Total Input   | Rated                | [kW]  | 0.57                         | 0.87                         | 1.11                         | 1.32                         | 1.73                         | 1.32                         | 1.73          |     |     |  |     |     |     |     |
|                                   | EER/AEER  |                      | 4.38 / 4.32                                   | 4.02 / 3.98                  | 3.78 / 3.75                  | 3.78 / 3.76                  | 3.52 / 3.50                  | 3.78 / 3.76                  | 3.52 / 3.50                  |               |     |     |  |     |     |     |     |
|                                   | Indoor<br>Sound<br>Level                                | Quiet                | [dBA]   | 20                           | 20                           | 20                           | 27                           | 27                           | 27                           | 27            |     |     |  |     |     |     |     |
|                                   |   | Low-SHi <sup>2</sup> | [dBA]   | 26-32-38-44                  | 26-32-38-44                  | 28-36-43-51                  | 31-35-39-44                  | 35-39-46-53                  | 31-35-39-44                  | 35-39-46-53   |     |     |  |     |     |     |     |
|                                   | Running Current (Rated)                                 | [A]                  | 3.0   | 4.2                          | 5.1                          | 5.8                          | 7.7                          | 5.8                          | 7.7                          |               |     |     |  |     |     |     |     |
| Air Volume In (SHi <sup>1</sup> ) | [L/s]   | 172                  | 172   | 228                          | 177                          | 250                          | 177                          | 250                          |                              |               |     |     |  |     |     |     |     |
| HEAT                              | Capacity  | Rated                | [kW]  | 3.4                          | 4.3                          | 5.4                          | 5.8                          | 6.5                          | 5.8                          | 6.5           |     |     |  |     |     |     |     |
|                                   |   | Min-Max              | [kW]  | 0.23 - 4.6                   | 0.23 - 6.0                   | 0.23 - 6.7                   | 1.2 - 8.2                    | 1.2 - 8.8                    | 1.2 - 8.4                    | 1.2 - 9.0     |     |     |  |     |     |     |     |
|                                   |   | @-15°C               | [kW]  | -                            | -                            | -                            | -                            | -                            | 5.8                          | 6.5           |     |     |  |     |     |     |     |
|                                   | Total Input   | Rated                | [kW]  | 0.78                         | 1.14                         | 1.43                         | 1.53                         | 1.88                         | 1.53                         | 1.88          |     |     |  |     |     |     |     |
|                                   | COP / ACOP  |                      | 4.35 / 4.31                                   | 3.77 / 3.74                  | 3.77 / 3.75                  | 3.79 / 3.77                  | 3.45 / 3.44                  | 3.79 / 3.77                  | 3.45 / 3.44                  |               |     |     |  |     |     |     |     |
|                                   | Indoor<br>Sound<br>Level                                | Quiet                | [dBA]   | 18                           | 18                           | 18                           | 29                           | 29                           | 29                           | 29            |     |     |  |     |     |     |     |
|                                   |   | Low-SHi <sup>2</sup> | [dBA]   | 25-31-38-44                  | 25-31-38-44                  | 27-36-44-51                  | 35-40-45-50                  | 35-41-47-51                  | 35-40-45-50                  | 35-41-47-51   |     |     |  |     |     |     |     |
|                                   | Running Current (Rated)                                 | [A]                  | 3.8   | 5.3                          | 6.4                          | 6.8                          | 8.3                          | 6.8                          | 8.3                          |               |     |     |  |     |     |     |     |
| Air Volume In (SHi <sup>1</sup> ) | [L/s]   | 173                  | 173   | 235                          | 233                          | 243                          | 233                          | 243                          |                              |               |     |     |  |     |     |     |     |
| Controller                        | Standard  |                      | 7-Day Programmable Controller                 |                              |                              |                              |                              |                              |                              |               |     |     |  |     |     |     |     |
|                                   | Optional Wired 7-Day Timer                              |                      | Optional: PAR Controller (Interface Required) |                              |                              |                              |                              |                              |                              |               |     |     |  |     |     |     |     |
| Wi-Fi                             | Built-in with Energy Monitoring                         |                      |   |                              |                              |                              |                              |                              |                              |               |     |     |  |     |     |     |     |
| Power Supply                      | (Powered From Outdoor Unit)                             |                      | 230V / Single Phase / 50 Hz                   |                              |                              |                              |                              |                              |                              |               |     |     |  |     |     |     |     |
|                                   | Maximum Current   | [A]                  | 9.9   | 9.9                          | 10.1                         | 15.3                         | 15.4                         | 15.3                         | 15.4                         |               |     |     |  |     |     |     |     |
| Indoor                            | Dimensions (WxDxH)                                      | [mm]                 | 750 x 215 x 600                               |                              |                              |                              |                              |                              |                              |               |     |     |  |     |     |     |     |
|                                   | Weight  | [kg]                 | 15  |                              |                              |                              |                              |                              |                              |               |     |     |  |     |     |     |     |
| Outdoor                           | Dimensions (WxDxH)                                      | [mm]                 | 800 x 285 x 550                               |                              |                              |                              |                              | 840 x 330 x 880              |                              |               |     |     |  |     |     |     |     |
|                                   | Weight  | [kg]                 | 35  |                              |                              |                              |                              | 54                           |                              |               |     |     |  |     |     |     |     |
|                                   | Sound Level - SPL <sup>3</sup> /Power (Cooling-Heating) | [dBA]                | 48-46 / 61-59                                 | 48-47 / 61-60                | 48-47 / 62-61                | 53-56 / 66-69                | 53-56 / 66-69                | 53-56 / 66-69                | 53-56 / 66-69                | 53-56 / 66-69 |     |     |  |     |     |     |     |
| Piping                            | Diameter (Liquid/Gas)                                   | [mm]                 | 6.35 / 9.52                                   | 6.35 / 9.52                  | 6.35 / 9.52                  | 6.35 / 12.7                  | 6.35 / 12.7                  | 6.35 / 12.7                  | 6.35 / 12.7                  |               |     |     |  |     |     |     |     |
|                                   | Max. Length/Height <sup>†</sup>                         | [m]                  | 20 / 12                                       | 20 / 12                      | 20 / 12                      | 30 / 15                      | 30 / 15                      | 30 / 15                      | 30 / 15                      |               |     |     |  |     |     |     |     |
|                                   | Chargeless Piping Length                                | [m]                  | 7   | 7                            | 7                            | 7                            | 7                            | 7                            | 7                            |               |     |     |  |     |     |     |     |
| Operation Range<br>Outdoor        | Cooling   | [°C]                 | -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                    | -25 / +24                    | -25 / +24     |     |     |  |     |     |     |     |
| Indoor Unit Colour                | White   |                      |   |                              |                              |                              |                              |                              |                              |               |     |     |  |     |     |     |     |

ZERL = Zoned Energy Rating Label  
 EER = Energy Efficiency Ratio  
 COP = Coefficient of Performance  
 AEER = Annual Energy Efficiency Ratio  
 ACOP = Annual Coefficient of Performance

SPL = Sound Pressure Level  
<sup>1</sup> SHi = Super High  
<sup>2</sup> Low-SHi = Low-Medium-High-Super High  
<sup>3</sup> SPL measured under rated operating frequency  
 \* Indoor Sound Levels rated at lowest fan speed.

† 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.  
 ‡ Avg/Hot are Australia only.  
 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.

# Heat Pump Selection Guide



## Each Home is as Individual as its Owner

Ensuring your heat pump is the right size for your home, is as important as choosing the right style. Mitsubishi Electric offers a wide variety of heat pump options to choose from.

Aside from design, the key to selecting the right heat pump to create a comfortable environment is to choose the correct unit size. Choosing an oversized unit could cost you more

in energy usage, while an undersized heat pump may not provide the heating or cooling the room requires.

This guide can be used to give you an approximate idea of heating unit size. A heat pump should not be purchased without first obtaining an in-home consultation by a qualified Mitsubishi Electric Authorised Installer.

### Room Dimensions in a New or Well-Insulated House

| Room Size Calculation |                |                       |                               |            |                    | Heat Pump Models          |                     |                          |                               |                           |                                     |  |
|-----------------------|----------------|-----------------------|-------------------------------|------------|--------------------|---------------------------|---------------------|--------------------------|-------------------------------|---------------------------|-------------------------------------|--|
| Room Size             | Ceiling Height | Room Volume           | Room Size Factor              | kW Heating | High Wall System   |                           |                     |                          |                               | Floor Console System      |                                     |  |
|                       |                |                       |                               |            | GS Standard Series | AP Classic / Smart Series | AS90 Large Capacity | EF Designer Smart Series | LN Black Diamond Smart Series | KW RapidHeat Smart Series | KW RapidHeat Smart Series HyperCore |  |
| 4m x 3m               | x 2.4m         | = 28.8m <sup>3</sup>  | x 55 watts per m <sup>3</sup> | = 1.6 kW   | GS25VFD†           | AP20VGD                   |                     | EF25VGK†                 | LN25VG(HZ)†                   | KW25VGK††                 |                                     |  |
| 4m x 4m               | x 2.4m         | = 38.4m <sup>3</sup>  | x 55 watts per m <sup>3</sup> | = 2.1 kW   | GS25VFD†           | AP20VGD                   |                     | EF25VGK†                 | LN25VG(HZ)†                   | KW25VGK†                  |                                     |  |
| 4m x 5m               | x 2.4m         | = 48.0m <sup>3</sup>  | x 55 watts per m <sup>3</sup> | = 2.6 kW   | GS25VFD            | AP20VGD                   |                     | EF25VGK†                 | LN25VG(HZ)†                   | KW25VGK†                  |                                     |  |
| 5m x 5m               | x 2.4m         | = 60.0m <sup>3</sup>  | x 55 watts per m <sup>3</sup> | = 3.3 kW   | GS35VFD            | AP25VG(K)D                |                     | EF25VGK                  | LN25VG(HZ)                    | KW25VGK                   |                                     |  |
| 6m x 5m               | x 2.4m         | = 72.0m <sup>3</sup>  | x 55 watts per m <sup>3</sup> | = 4.0 kW   | GS35VFD            | AP35VG(K)D                |                     | EF35VGK                  | LN35VG(HZ)                    | KW35VGK                   | KW50VGKHZ†                          |  |
| 6m x 6m               | x 2.4m         | = 86.4m <sup>3</sup>  | x 55 watts per m <sup>3</sup> | = 4.7 kW   | GS50VFD            | AP42VG(K)D                |                     | EF42VGK                  | LN50VG(HZ)†                   | KW42VGK                   | KW50VGKHZ†                          |  |
| 6m x 7m               | x 2.4m         | = 100.8m <sup>3</sup> | x 55 watts per m <sup>3</sup> | = 5.5 kW   | GS50VFD            | AP50VG(K)D                |                     | EF50VGK                  | LN50VG(HZ)                    | KW50VGK                   | KW50VGKHZ                           |  |
| 7m x 7m               | x 2.4m         | = 117.6m <sup>3</sup> | x 55 watts per m <sup>3</sup> | = 6.5 kW   | GS60VFD            | AP60VG(K)D                |                     |                          | LN60VG                        | KW60VGK                   | KW60VGKHZ                           |  |
| 7m x 8m               | x 2.4m         | = 134.4m <sup>3</sup> | x 55 watts per m <sup>3</sup> | = 7.4 kW   | GS71VFD            | AP71VG(K)D                |                     |                          |                               |                           |                                     |  |
| 8m x 8m               | x 2.4m         | = 153.6m <sup>3</sup> | x 55 watts per m <sup>3</sup> | = 8.4 kW   | GS80VFD            | AP80VG(K)D                |                     |                          |                               |                           |                                     |  |
| 8m x 9m               | x 2.4m         | = 172.8m <sup>3</sup> | x 55 watts per m <sup>3</sup> | = 9.5 kW   |                    |                           | AS90VGD             |                          |                               |                           |                                     |  |

At outdoor ambient 7°C. † Higher rated unit for application, but can be used. \*KW25 piping run cannot exceed 15m into a room of 28.8m<sup>3</sup> volume.

### Room Dimensions in a Cold, Damp House or with Lots of Glass

| Room Size Calculation |                |                       |                               |            |                    | Heat Pump Models          |                     |                          |                               |                           |                                     |  |
|-----------------------|----------------|-----------------------|-------------------------------|------------|--------------------|---------------------------|---------------------|--------------------------|-------------------------------|---------------------------|-------------------------------------|--|
| Room Size             | Ceiling Height | Room Volume           | Room Size Factor              | kW Heating | High Wall System   |                           |                     |                          |                               | Floor Console System      |                                     |  |
|                       |                |                       |                               |            | GS Standard Series | AP Classic / Smart Series | AS90 Large Capacity | EF Designer Smart Series | LN Black Diamond Smart Series | KW RapidHeat Smart Series | KW RapidHeat Smart Series HyperCore |  |
| 4m x 3m               | x 2.4m         | = 28.8m <sup>3</sup>  | x 65 watts per m <sup>3</sup> | = 1.9 kW   | GS25VFD†           | AP20VGD                   |                     | EF25VGK†                 | LN25VG(HZ)†                   | KW25VGK††                 |                                     |  |
| 4m x 4m               | x 2.4m         | = 38.4m <sup>3</sup>  | x 65 watts per m <sup>3</sup> | = 2.5 kW   | GS25VFD†           | AP20VGD                   |                     | EF25VGK†                 | LN25VG(HZ)†                   | KW25VGK†                  |                                     |  |
| 4m x 5m               | x 2.4m         | = 48.0m <sup>3</sup>  | x 65 watts per m <sup>3</sup> | = 3.1 kW   | GS35VFD            | AP25VG(K)D                |                     | EF25VGK                  | LN25VG(HZ)                    | KW25VGK                   |                                     |  |
| 5m x 5m               | x 2.4m         | = 60.0m <sup>3</sup>  | x 65 watts per m <sup>3</sup> | = 3.9 kW   | GS35VFD            | AP35VG(K)D                |                     | EF35VGK                  | LN35VG(HZ)                    | KW35VGK                   | KW50VGKHZ†                          |  |
| 6m x 5m               | x 2.4m         | = 72.0m <sup>3</sup>  | x 65 watts per m <sup>3</sup> | = 4.7 kW   | GS50VFD            | AP42VG(K)D                |                     | EF42VGK                  | LN50VG(HZ)†                   | KW42VGK                   | KW50VGKHZ†                          |  |
| 6m x 6m               | x 2.4m         | = 86.4m <sup>3</sup>  | x 65 watts per m <sup>3</sup> | = 5.6 kW   | GS60VFD            | AP50VG(K)D                |                     | EF50VGK                  | LN50VG(HZ)                    | KW50VGK                   | KW50VGKHZ                           |  |
| 6m x 7m               | x 2.4m         | = 100.8m <sup>3</sup> | x 65 watts per m <sup>3</sup> | = 6.5 kW   | GS60VFD            | AP60VG(K)D                |                     |                          | LN60VG                        | KW60VGK                   | KW60VGKHZ                           |  |
| 7m x 7m               | x 2.4m         | = 117.6m <sup>3</sup> | x 65 watts per m <sup>3</sup> | = 7.6 kW   | GS71VFD            | AP71VG(K)D                |                     |                          |                               |                           |                                     |  |
| 7m x 8m               | x 2.4m         | = 134.4m <sup>3</sup> | x 65 watts per m <sup>3</sup> | = 8.7 kW   | GS80VFD            | AP80VG(K)D                |                     |                          |                               |                           |                                     |  |
| 8m x 8m               | x 2.4m         | = 153.6m <sup>3</sup> | x 65 watts per m <sup>3</sup> | = 10.0 kW  |                    |                           | AS90VGD             |                          |                               |                           |                                     |  |

At outdoor ambient 7°C. † Higher rated unit for application, but can be used. \*KW25 piping run cannot exceed 15m into a room of 28.8m<sup>3</sup> volume.

Choose the right one! Visit our online Heat Pump Selector at [www.mitsubishi-electric.co.nz/heatpump/selector](http://www.mitsubishi-electric.co.nz/heatpump/selector)



# Series Overview



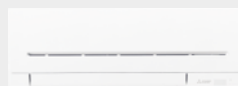
## GS Standard



Offers real value while delivering exceptional product quality and reliability for heating and cooling.

See pages 8–9

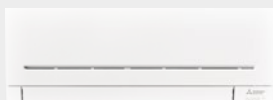
## AP Mini



New Zealand's smallest\*<sup>1</sup> high wall indoor unit. The perfect solution for bedrooms or small rooms where space is at a premium.

See pages 10–11

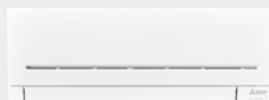
## AP Classic



Starting at just 18dB<sup>A</sup>\*<sup>2</sup>, it's New Zealand's quietest heat pump – ideal for living rooms and bedrooms,

See pages 12–13

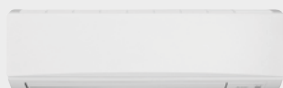
## AP Smart



The quiet achiever in energy efficiency. New Zealand's quietest heat pump just got smarter with Built-in Wi-Fi Control Energy Monitoring.

See pages 14–15

## AS90 Large Capacity



Far-reaching coverage and high airflow make the AS90 ideal for larger, open spaces such as workspaces, halls and classrooms.

See pages 16–17

## EF Designer Smart



Beauty and Brains – you can have it all! Available in a choice of three stylish colours: Rich Black Diamond, Matte Silver or Pure White, you can enjoy perfect comfort while matching your interior design style.

See pages 18-19

## LN Black Diamond Smart



Our most intelligent, energy-saving heat pump yet. Advanced features including Built-in Wi-Fi Control Energy Monitoring, Plasma Quad Plus Filtration and 3D i-See Sensor, sets a new standard in personalised comfort.

See pages 20–23

## KW RapidHeat Smart



Quick, quiet and clever! New Zealand's quietest floor consoles\*<sup>3</sup> feature a modern slimline design, Built-in Wi-Fi Control Energy Monitoring and dramatically reduced depth. The perfect solution for unobtrusive heating at floor level.

See pages 20–23

### COLOUR DISCLAIMER

While every effort has been made to display the units as they appear in person any heat pump units shown in this brochure may not be colour accurate. Please ensure you view an actual unit at your nearest Mitsubishi Electric retailer for colour matching.

\*<sup>1</sup> Indoor unit total volume size of 0.034m<sup>3</sup>.

\*<sup>2</sup> MSZ-AP25 indoor sound level on lowest fan speed in Heating Mode.

\*<sup>3</sup> MFZ-KW25/35/42 indoor sound level on lowest fan setting in Heating Mode.



## Black Diamond Technologies and Mitsubishi Electric – an Exclusive Partnership Since 1981

The Mitsubishi Electric Product Range has been exclusively distributed by 100% locally owned and operated Black Diamond Technologies Limited for over 40 years in New Zealand.

The combination of an internationally trusted brand with the comfort of a locally owned and operated company means that you will always get the best products, the best local service and the best local support.

Based in Wellington with a further 4 support offices throughout New Zealand, Black Diamond Technologies Limited is here to help.

## Our Vision – Creating New Zealand’s Sustainable Future

Black Diamond Technologies Limited in partnership with Mitsubishi Electric, strives to develop and introduce new technologies for New Zealanders that will make our lives more comfortable while also creating a greener tomorrow.

## Our Nationwide Trained Specialist Installation Network

Mitsubishi Electric Heat Pumps are installed through an extensive network of trained specialist dealers. This ensures you are supported with a superior level of product and installation quality.

## Our Comprehensive 5 Year Warranty

Peace of mind is assured with your choice of Mitsubishi Electric Heat Pumps – supported by a comprehensive 5 year parts and labour warranty.



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