

Black Diamond Series – the New Standard in Personalised Comfort and Style



Quiet Luxury





## Introducing the Black Diamond Series

The Black Diamond Series sets the new standard in personalised comfort and style. Available in three striking colours, the range is packed with advanced features including Plasma Quad Plus Filtration ideal for allergy sufferers, and the 3D i-See Sensor for customised heating or cooling. And of course, starting at just 19dBA, quiet operation is assured!

## Reflect Your Design Personality

Featuring a striking flat panel design, the Black Diamond 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.

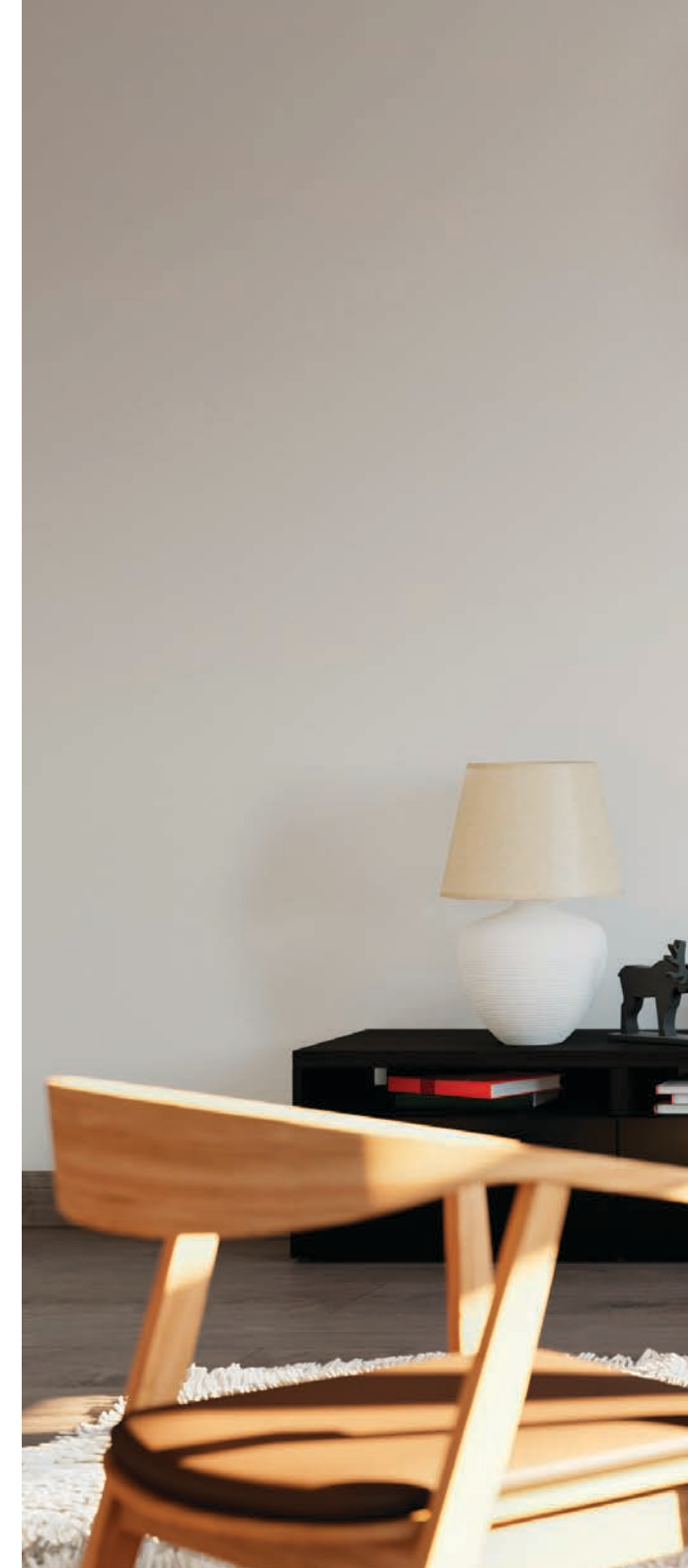
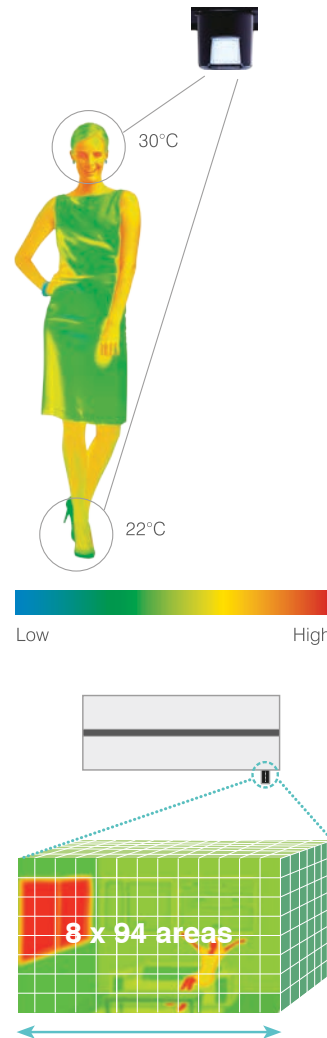


### 3D i-See Sensor

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 Series do more than simply save energy, it also enables a new level of truly personalised comfort to be achieved.

#### 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

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.



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



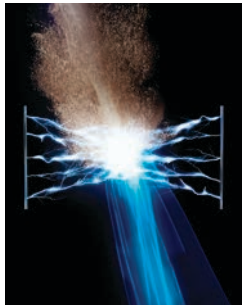
With multiple airflow directions both occupants feel comfortable.

## Advanced Plasma Quad Plus Filtration

The new advanced Plasma Quad Plus Filtration System, featuring high-performance two stage plasma technology, filters the air to clean away smells, dust, moulds and other common household allergens.

### Two Stage Plasma Filter

The 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 (which are up to 30 times smaller than the width of a human hair!).



With the Plasma Quad Plus Filtration System, a healthier and cleaner living environment can be enjoyed by all.

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









## Industry First – Dual Barrier Coating

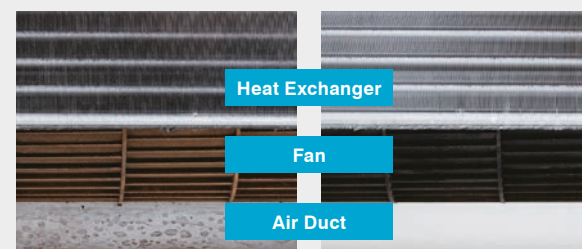
The patented Mitsubishi Electric Dual Barrier Coating prevents dust and dirt from accumulating on the inner surface of the indoor unit; keeping your heat pump clean year-round.

### Maximise Energy Efficient Performance

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.

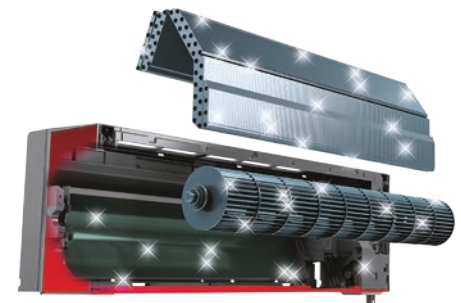
Dual Barrier Coating is the world's first coating technology to prevent dust and oil build-up on the interior of the heat pump for the ultimate in peace of mind, ease and comfort.

Comparison of dirt on heat exchanger, fan and air duct  
(Factory simulated in-house comparison)



No Dual Barrier Coating  
(Image after 10 years)

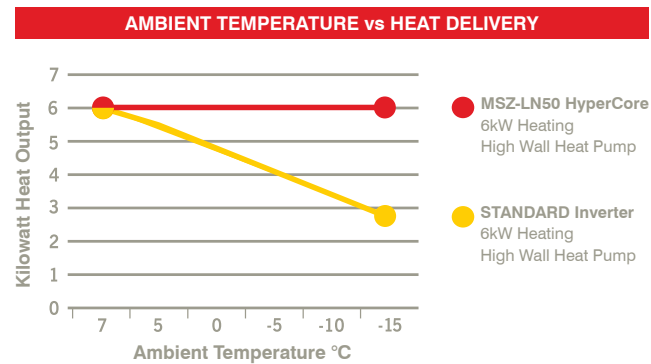
Dual Barrier Coating used



## HyperCore® as Standard\* – New Zealand’s Best Low Temperature Performance

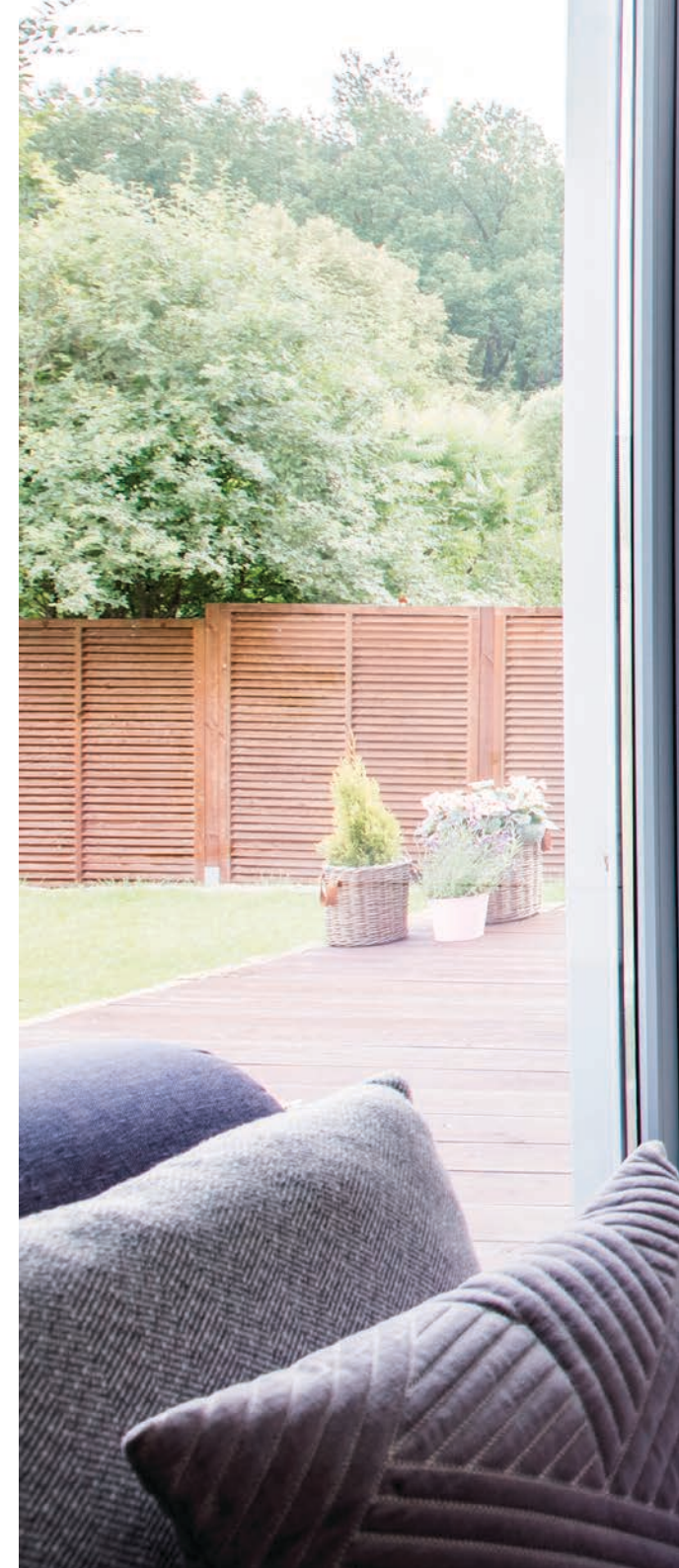
The Black Diamond Series 2.5–5kW capacities come standard with HyperCore Technology. While ordinary heat pumps produce less heat below 7°C, only Mitsubishi Electric HyperCore Technology guarantees to continue to deliver its fully rated capacity right down to -15°C – so you stay warm when you need it most.

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. 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.



\* Please note that the Black Diamond Series LN60 does not feature HyperCore Technology.

# HYPERCORE









## Whisper Quiet Operation

Mitsubishi Electric Heat Pumps are designed to be very, very quiet. Constant development to reduce sound levels has resulted in our Black Diamond Series High Wall indoor units starting at an amazingly quiet 19dBA\*, making them ideal where it matters most – in living rooms and bedrooms.

## Superior Energy Efficiency

Black Diamond Series heat pumps are some of the most energy efficient heat pumps available in New Zealand. The LN25 model even boasts the maximum 6 star energy rating in heating – which means superior energy efficient performance all winter long. 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.

\* MSZ-LN25/35 indoor sound level on lowest fan speed.

## Wi-Fi Control Built-In!

With Mitsubishi Electric Wi-Fi Heat Pump 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 regardless of what New Zealand's unpredictable weather is doing outside!

## Now Voice Control Compatible\*

The Black Diamond Series heat pumps with Wi-Fi Control built-in are also 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.



\* For voice control you will need a Smart Speaker/Display/Assistant compatible with Amazon Alexa or Google Home.









## Black Diamond Series Specifications

MODEL		MSZ-LN25	MSZ-LN35	MSZ-LN50	MSZ-LN60
Indoor Unit		MSZ-LN25VGV/B/R	MSZ-LN35VGV/B/R	MSZ-LN50VGV/B/R	MSZ-LN60VGV/B/R
Outdoor Unit		MUZ-LN25VGHZ	MUZ-LN35VGHZ	MUZ-LN50VGHZ	MUZ-LN60VG
Compressor Type		<b>HYPERCORE®</b>	<b>HYPERCORE®</b>	<b>HYPERCORE®</b>	Standard Inverter
Refrigerant		<b>R32</b>	<b>R32</b>	<b>R32</b>	<b>R32</b>
Cooling	Rated Capacity	2.5kW	3.5kW	5.0kW	6.1kW
	Energy Efficiency Ratio (EER)	5.10	4.07	3.62	3.53
	Indoor Sound Level*	19 dBA	19 dBA	27 dBA	29 dBA
Heating	Rated Capacity	3.2kW	4.0kW	6.0kW	6.8kW
	Coefficient of Performance (COP)	5.42	4.88	4.00	3.78
	Indoor Sound Level*	19 dBA	19 dBA	25 dBA	29 dBA
Energy Rating	Cooling Stars	5.5	3.5	3	2.5
	Heating Stars	6	5	3.5	3
Indoor Unit Dimensions	WxDxH (mm)	890 x 233 x 307	890 x 233 x 307	890 x 233 x 307	890 x 233 x 307
Outdoor Unit Dimensions	WxDxH (mm)	800 x 285 x 550	800 x 285 x 550	840 x 330 x 880	840 x 330 x 880
Outdoor Operating Temperature Range	Cooling	-10°C to 46°C	-10°C to 46°C	-10°C to 46°C	-10°C to 46°C
	Heating	-25°C to 24°C	-25°C to 24°C	-25°C to 24°C	-15°C to 24°C



Black Diamond



Red Diamond



White Diamond

Please note that due to the reflective and multi-layered finish of the Black Diamond Series indoor units, the colours shown within this brochure are indicative only.

While every effort has been made to display the units as they appear in person, due to variables such as lighting and positioning affecting the appearance, we recommend viewing the Black Diamond Series at your nearest showroom.

\* Sound level rated at lowest fan speed



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

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**Black Diamond Technologies**

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