



HYPERCORE

HEAT PUMP TECHNOLOGY

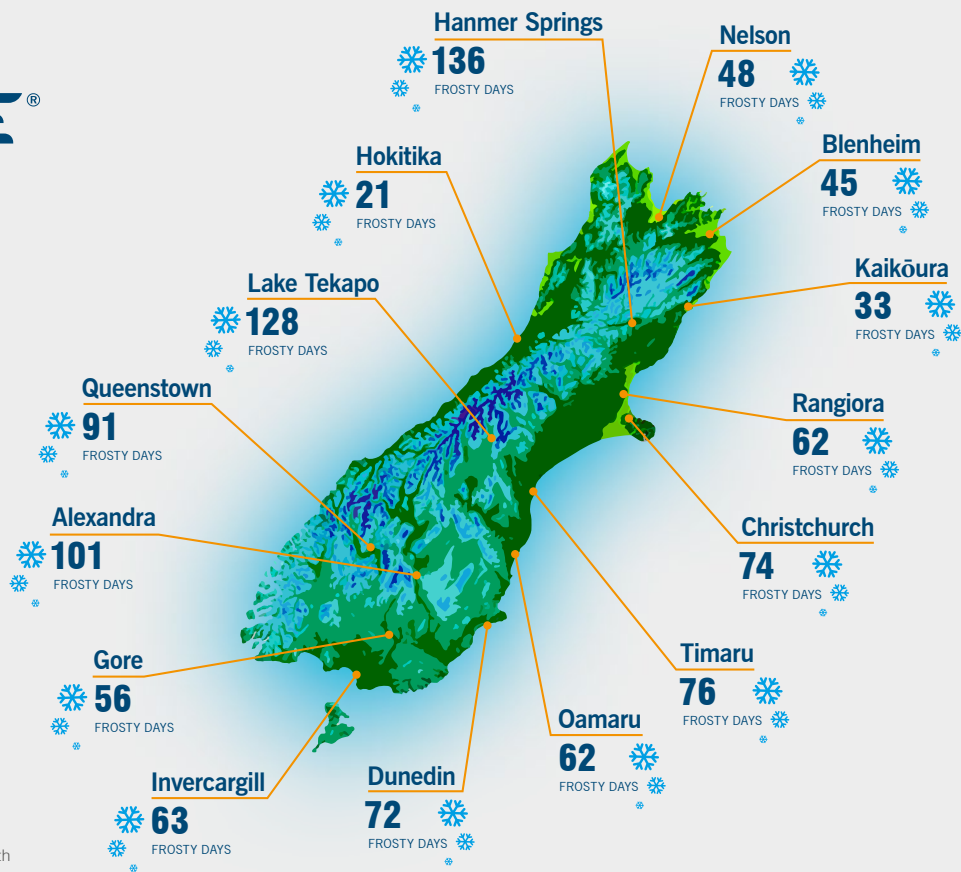
Guaranteed full heating capacity
... even on the coldest days!



**MITSUBISHI
ELECTRIC**

Quietly Superior
Heat Pumps

THIS IS **HYPERCORE**[®] COUNTRY



Mean number of days per year of ground frost according to the NIWA website. Ground frost occurs when the air at ground level is chilled below freezing point. Map used with permission from NIWA.

Guaranteed Full Rated Heating Capacity – Right Down to -15°C

Mitsubishi Electric offers a range of heat pump solutions with HyperCore Technology that are specifically designed to ensure their full rated capacity is produced, even on cold frosty days.

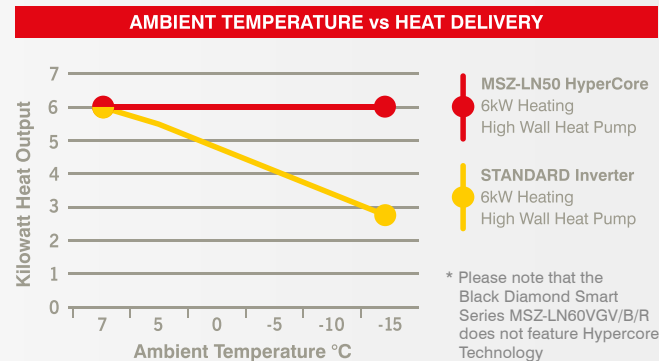
Did you know ordinary heat pumps start to produce less heat below 7°C? The reduction in heat output is especially noticeable when the temperature drops below zero. At these low temperature conditions ordinary heat pumps can really struggle to cope.

Feel the Warmth Even on the Coldest Days

We guarantee fully rated heating capacity on selected LN Black Diamond Smart Series* and KW RapidHeat Smart Series** models right down to -15°C! It's our promise that no matter where you live, you can have peace of mind in knowing you'll get all the heat you paid for and feel the warmth, even on the coldest days.

* LN Black Diamond Smart High Wall Heat Pump 2.5kW – 5.0kW models are available with optional HyperCore Technology.

** KW RapidHeat Smart Floor Console Range includes a 5.0kW and a 6.1kW model with optional HyperCore Technology.



This graph shows two heat pumps rated to provide 6kW of heat, with different performance as the temperature drops – the standard heat pump produces less heat while the HyperCore LN50 model delivers the full 6kW, heating the room up fast when you need it most.

ORDINARY HEAT PUMP



HYPERCORE



How Advanced HyperCore Technology Works

When temperatures drop below zero degrees, ice builds up on the outdoor unit of any heat pump. How the heat pump reacts to this determines how effective it will be in providing heat to your home. Advanced HyperCore technology delivers maximum effectiveness.

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.

Advanced Defrost Logic

To remove the ice build up, the heat pump will go into "Defrost Mode" and during this time the heat pump will not be delivering heat into your home. HyperCore's Defrost Logic has been fine-tuned to extend the period in between defrost periods and optimise its heating performance.

Heating Performance to -25°C

Mitsubishi Electric HyperCore Heat Pumps have an extended heating operation range to allow heating to -25°C.

To achieve this, the system logic within HyperCore Heat Pumps has been refined to decrease the number of defrost cycles required under colder ambient conditions.



These units also incorporate a drain tray de-icer* that prevents ice forming on the base, which due to ice expansion would inadvertently affect the unit's performance. Importantly this de-icer does not supplement the heating cycle in any way, and will not operate under most ambient conditions above 0°C.

* 60 Watt for LN25/35 | 120 Watt for LN50 and KW50/60



LN Black Diamond Smart Series with HyperCore

The 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 Wi-Fi Control with Energy Monitoring is built-in!



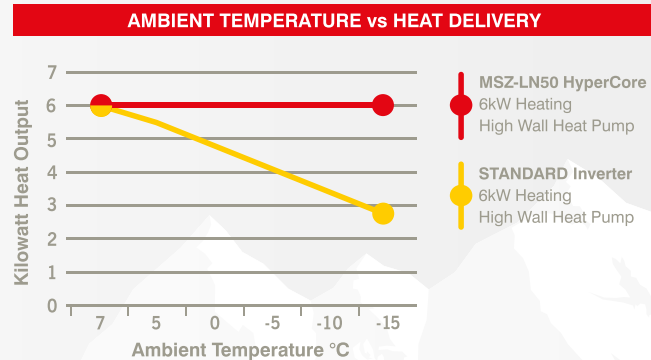
Dimensions (WxDxH): 890 x 233 x 307mm

* Please note that the Black Diamond Smart Series LN60 is not available with HyperCore Technology.

Low Temperature Performance, Guaranteed

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



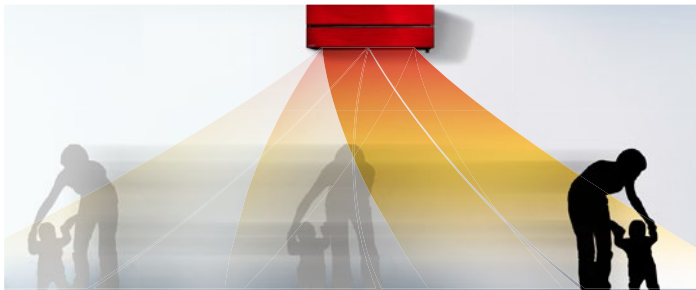
Key Features

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.

Intuitively Adjusts the Airflow Direction to Where it's Needed

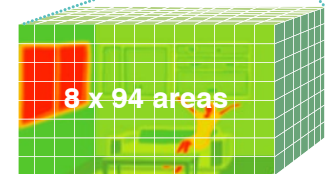
The 3D i-See Sensor works in conjunction with the Dual Split Vanes to provide heating or cooling to where it is needed most. As a result, it can save energy by not heating or cooling areas that don't require it. Whether you prefer direct, indirect or evenly distributed airflow, the 3D i-See Sensor and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



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



8 Sensors measure while moving left to right



752 Three-dimensional zones

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 smells, dust, moulds and other common household allergens.



Dual Barrier Coating Maximises Efficient Performance

Built-up contaminants can create unpleasant odours and force a heat pump to work harder. Dual Barrier Coating keeps key internal components cleaner – for year-round peace of mind.



Quiet Operation

LN 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.



Wi-Fi Control Built-in! Never Return to a Cold Home Again

With Built-in Wi-Fi Control you can pre-heat or cool a room no matter where you are, so 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 your space.



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



KW RapidHeat Smart Series with HyperCore

The RapidHeat Smart Floor Consoles feature a contemporary slimline design and dramatically reduced depth. RapidHeat Smart Floor Consoles are the perfect solution for unobtrusive heating at floor level.

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.



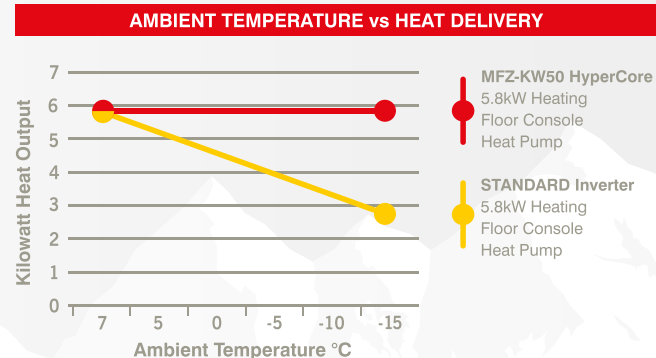
R32

Low Temperature Performance, Guaranteed

The RapidHeat Smart KW50 and KW60 Floor Consoles are available with HyperCore Technology.

As the graph below shows, even though both heat pumps are rated to provide 5.8kW of heat, their performance differs greatly as the temperature drops.

While the standard heat pump produces less heat, the KW50 5.8kW HyperCore Floor Console model continues to deliver the full 5.8kW heating you paid for.



Key Features

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.*

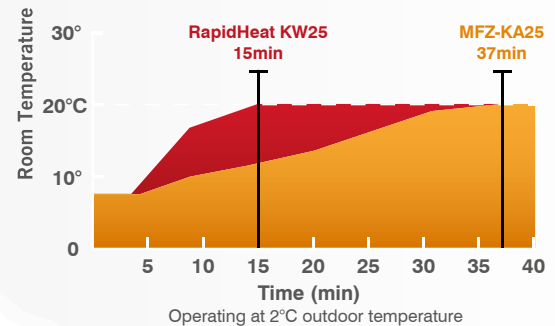
Multi Vane Flow for Even Heat Distribution

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.

* Compared to the previous MFZ-KA Series.



**RapidHeat Series vs Previous Floor Console:
Time to Reach 20°C**



Sleek, Sophisticated Design

Mitsubishi Electric RapidHeat Smart Series Floor Consoles feature a 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%.

Anti-Allergy Enzyme Filter

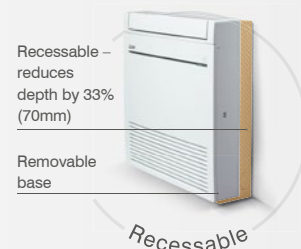
In addition to a washable Air Purifying Filter, the RapidHeat Smart Series features an Anti-Allergy Enzyme Filter which utilises enzyme catalysts to filter allergens and remove harmful bacteria.

Wi-Fi Control Built-in! Never Return to a Cold Home Again

With Built-in Wi-Fi Control you can pre-heat or cool a room no matter where you are, so 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 your space.

Easy Filter Maintenance

Because the KW RapidHeat Smart Series is mounted at floor level, the filters can be easily accessed for cleaning.



BUILT-IN
Wi-Fi
CONTROL

energy
MONITORING





**THIS IS
HYPERCORE
COUNTRY**

Specifications

MODEL		MSZ-LN25		MSZ-LN35		MSZ-LN50		MFZ-KW50HZ		MFZ-KW60HZ	
Indoor Unit		MSZ-LN25VG2		MSZ-LN35VG2		MSZ-LN50VG3		MFZ-KW50VGK		MFZ-KW60VGK	
Outdoor Unit		MUZ-LN25VGHZ2		MUZ-LN35VGHZ2		MUZ-LN50VGHZ2		MUFZ-KW50VGHZ2		MUFZ-KW60VGHZ2	
Compressor Type		HYPERCORE™		HYPERCORE™		HYPERCORE™		HYPERCORE™		HYPERCORE™	
Refrigerant		R32		R32		R32		R32		R32	
Cooling	Rated Capacity	2.5kW		3.5kW		5.0kW		5.0kW		6.1kW	
	Energy Efficiency Ratio (EER)	5.10		4.27		3.62		3.78		3.52	
	Indoor Sound Level*	19 dBA		19 dBA		27 dBA		27 dBA		27 dBA	
Heating	Rated Capacity	3.2kW		4.0kW		6.0kW		5.8kW		6.5kW	
	Coefficient of Performance (COP)	5.33		4.88		4.00		3.79		3.45	
	Indoor Sound Level*	19 dBA		19 dBA		25 dBA		29 dBA		29 dBA	
ZERL Star Ratings	NZ Cold Areas	5.0	3.0	4.0	3.0	3.5	2.5	2.5	2.0	2.5	2.0
	Average Areas**	4.5	3.5	4.0	3.5	3.0	2.5	2.5	2.5	2.5	2.5
	Hot Areas**	5.0	4.0	4.0	3.5	3.5	3.0	3.0	3.0	2.5	3.0
Indoor Unit Dimensions	WxDxH (mm)	890 x 233 x 307		890 x 233 x 307		890 x 233 x 307		750 x 215 x 600		750 x 215 x 600	
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		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		-10°C to 46°C	
	Heating	-25°C to 24°C		-25°C to 24°C		-25°C to 24°C		-25°C to 24°C		-25°C to 24°C	

* Sound level rated at lowest fan speed.

** Average/Hot areas are Australia only.



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

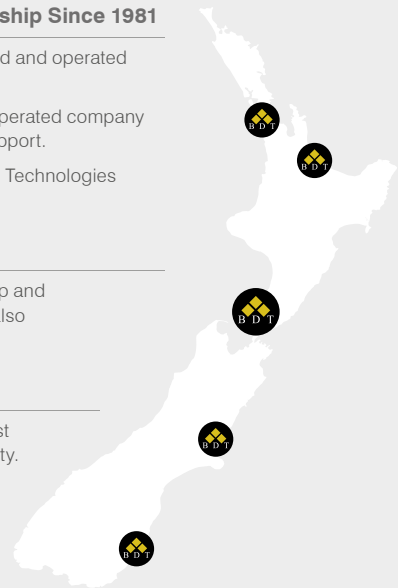
Black Diamond Technologies Limited in partnership with Mitsubishi Electric, strives to develop and introduce new technologies for New Zealanders that will make lives more comfortable while also creating a greener tomorrow.

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.

Full 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.



For more information please visit our website
or call our Customer Service Team.

mitsubishi-electric.co.nz | 0800 784 382



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Black Diamond
Technologies Limited



Exclusive New Zealand
Partner Since 1981

