



Did you know?

HyperCore Technology guarantees full heating output even on the coldest days!

HYPERCORE

HyperCore Technology is available in the following heat pump models and capacities:

Black Diamond LN Series High Wall		
Model Name	Cooling Capacity	Heating Capacity
MSZ-LN25VGHZ	2.5kW	3.2kW
MSZ-LN35VGHZ	3.5kW	4.0kW
MSZ-LN50VGHZ	5.0kW	6.0kW

RapidHeat KJ Series Floor Console		
Model Name	Cooling Capacity	Heating Capacity
MFZ-KJ50VEHZ	5.0kW	5.8kW
MFZ-KJ60VEHZ	6.0kW	6.8kW

Did you know ordinary heat pumps start to produce less heat below 7°C? The reduction in heat generated by ordinary heat pumps is especially noticeable when the temperature drops below 0°C. This is because in these cooler conditions ordinary heat pumps can really struggle to cope.



Regular frosty days are common right across New Zealand all through winter

Ground frost occurs when the air at ground level is chilled below freezing point. As you can see from the map, many cities throughout the country experience a high number of these colder days. The data reflected comes from NIWA, who have calculated the mean number of ground frost days by city throughout the year.

In these low-temperature conditions, the performance of a normal heat pump deteriorates. However, HyperCore Technology continues to provide the maximum level of energy-efficient heating output, so your room heats up fast and stays warm when you need it most. As a result, a HyperCore Heat Pump is therefore relevant to all of New Zealand - not just for consumers living in the deep south. HyperCore is also highly recommended for humid and high-altitude areas.

The only heat pump that guarantees its full rated heating capacity right down to -15°C

HyperCore Technology is specifically designed to ensure its full rated capacity is produced on all those cold days. No matter where you live, if you experience frosty winter days it will give you peace of mind that you will get all the heat you paid for whilst feeling the warmth when it matters most.

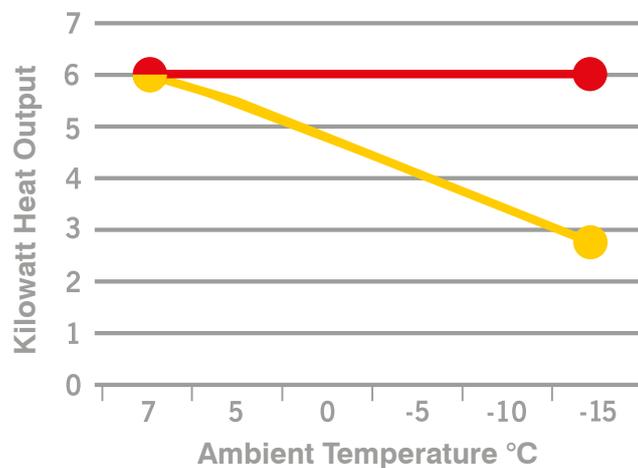
As the graph shows, even though both heat pumps are rated to provide 6kW of heat, their performance differs greatly as the temperature drops.

For example, while the standard heat pump produces less heat, the Black Diamond Series LN50 High Wall Heat Pump continues to deliver the full 6kW of heating you paid for.

The result? The room heats up fast and stays warm when you need it most.



AMBIENT TEMPERATURE vs HEAT DELIVERY



Think of it this way

A small car that has to pull a heavy trailer is likely to struggle and could double its normal fuel consumption.

A large SUV on the other hand is specifically designed to pull heavy loads. In comparison to the small car pulling a trailer, it is likely to do this quicker, more effectively and with greater fuel efficiency because its total performance is not compromised by the additional load it now needs to tow.



The unique heat caulking compressor maximises efficient performance

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

Advanced defrost logic helps reduce cold periods for even, reliable heating

When temperatures plummet below 0°, ice will build-up on the outdoor unit of any heat pump. How the heat pump reacts to this determines how effective it will be in providing heat to your home.

To remove the ice build-up the heat pump will need to go into Defrost Mode. 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 time in between defrost periods and optimise its heating performance.



Extended heating performance right down to -25°C

All Mitsubishi Electric HyperCore Heat Pumps have a wider heating operation range that allows 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.

Built-in drain tray de-icer for optimum performance

All HyperCore Heat Pump outdoor units incorporate a drain tray de-icer*. It prevents ice forming on the base, which due to ice expansion, would inadvertently affect the performance of the unit. Please note, 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 LN50/60 and KJ50/60