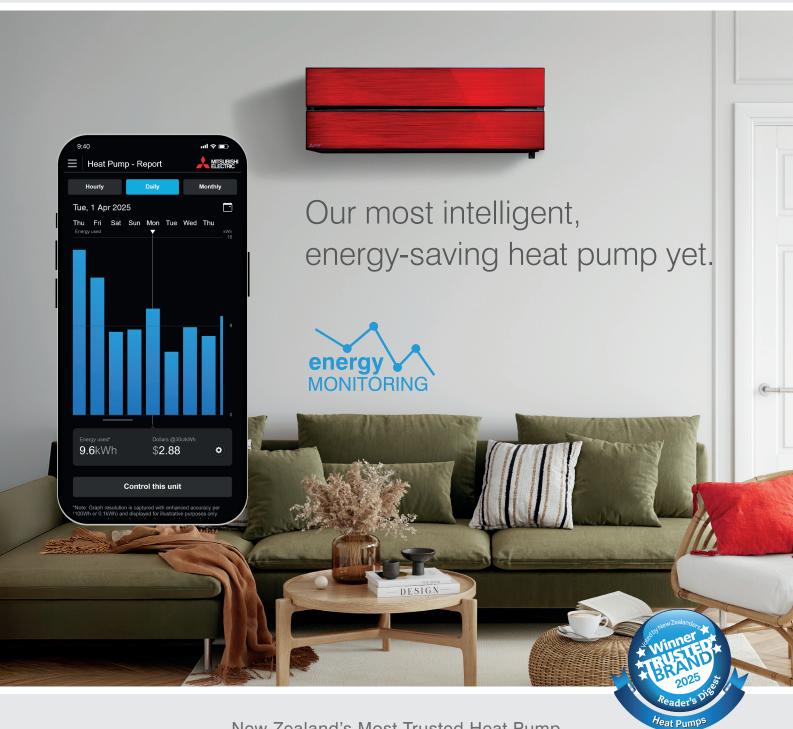


LN Black Diamond Smarts Series

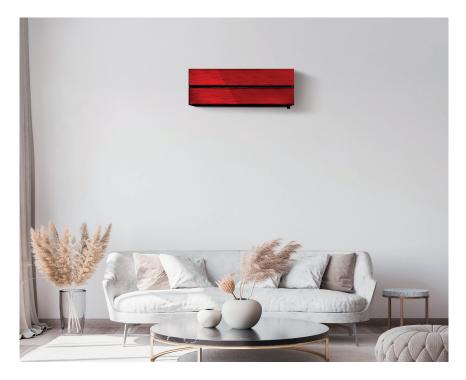
Personalised Comfort Redefined



New Zealand's Most Trusted Heat Pump

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 Builtin Wi-Fi Control Energy Monitoring!





Reflect Your Design Personality

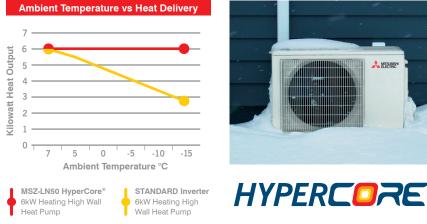
Featuring a striking flat panel design, the Black Diamond Smart Series is available in three unique reflective colour finishes - White Diamond, Red Diamond and Black Diamond, that change depending on the light in the room.

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.



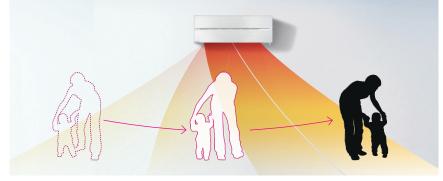


* The Black Diamond Series LN60 is not available with HyperCore Technology

Black Diamond Smarta

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

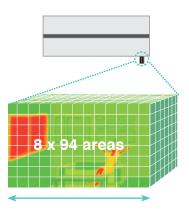
Even Airflow – Airflow Only Where You Need It

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

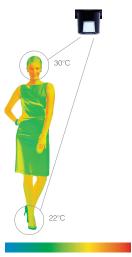


752 three-dimensional zones

LN Black Diamond Smart Series







.ow High







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.

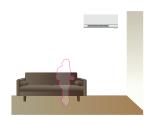


The 3D i-See Sensor continuously

scans the room for occupants



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



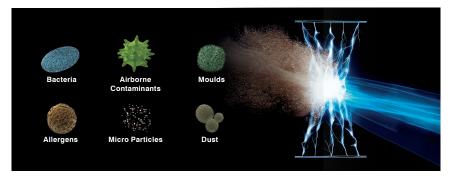
In Auto-Off Mode – unit switches off when you leave the room.

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 25m² 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.

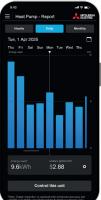
Built-in Wi-Fi Control Energy Monitoring

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.



MONITÓRING





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



LN Black Diamond Smart Series Specifications

	TYPE			High Wall System														
		SERIES			LN Black Diamond Smart Series				LN Black			Diamond Smart Series wit		h HyperCore				
		MODEL			MSZ-LN25		MSZ-LN35		MSZ-LN50		MSZ-LN60		MSZ-LN25HZ		MSZ-LN35HZ		MSZ-LN50HZ	
QUICK Glance	R	REFRIGERANT							R3		2							
	1	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		
			2.5kW 5.10 EER 19 dBA* 3.2kW		3.5kW 4.27 EER 19 dBA* 4.0kW		5.0kW 3.62 EER 27 dBA ⁻ 6.0kW		6.1kW 3.53 EER 29 dBA* 6.8kW		2.5kW 5.10 EER 19 dBA [*] 3.2kW		3.5kW 4.27 EER 19 dBA* 4.0kW		5.0kW 3.62 EER 27 dBA [*] 6.0kW			
		COOL																
		HEAT			5.33 COP 19 dBA*		4.88 COP 19 dBA*		4.05 COP 25 dBA*		3.78 COP 29 dBA*		5.33 COP 19 dBA*		4.88 COP 19 dBA⁺		4.00 COP 25 dBA*	
		(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	
	ZERL	STAR Avge A				4.0	3.5	3.5	2.5	3.0	2.5	4.5	3.5	4.0	3.5	3.0	2.5	
	RATING	2				4.5	3.5			3.0				4.0	3.5	3.5	3.0	
		Hot A	Area*	5.0 4.0		4.0 3.0		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		
	1 ,	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	Total Input Rated		0.49		0.82		1.38		1.73		0.49		0.82		1.38		
			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 Sound	Quiet	[dBA]	19		19		27		29		19		19		27		
	Level			23-29-36-42		24-29-36-43		31-35-	31-35-39-46		37-41-45-49		23-29-36-42		24-29-36-43		31-35-39-46	
	Running C	[A]	2.7		3.8		6.3		7.8		2.5		3.8		6.3			
	Air Volume In (SHi1)		[L/s]	2	207		217		232		262		207		217		232	
HEAT		Rated	[kW]	kW] 3.2		4.0		6.0		6.8		3.2		4.0		6.0		
	Capacity	Min-Max	[kW]			0.9 - 6.3		1.0 - 8.2		1.8–9.8		0.8-6.3		0.9–7.0		1.8–9.0		
		@-15°C	[kW]	-		-		-	-		-		3.2		4.0		6.0	
	Total Input	Rated	[kW]	0.6		0.82		1.4	1.48		1.80		0.60		0.82		1.50	
		COP / ACOP		5.33 / 5.30		4.88 / 4.86		4.05 /	4.05 / 4.04		3.78 / 3.77		5.33 / 5.30		4.86	4.00 / 3.99		
	Indoor	Quiet	[dBA]	19		19		25		29		19		1	9	25		
	Sound Level	Low-SHi ²	[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 C	Running Current (Rated)		3	.4	3.8		6.8		7.9		3.0		3.8		6.8		
	Air Volume In (SHi1)		[L/s]	2	32	232		255 263		232		232		255				
Controller		Standard					Premium	n LN 7-Day I	Programmab	le Controll	er and Wi-F	i Control						
	Optiona	I Wired 7-Day Ti							AR Controlle									
Wi-Fi									Buil	t-In with Ene	rgy Monito	oring						
Denver Cupplu	(Powere	d From Outdoor l						230) V / Single	Phase / 50	Hz							
Power Supply	Maximum Current		[A]	7.1		9.	9.9 13.8		.8	15.2		9.9		10.5		15.1		
Indoor	Dimensio	Dimensions (WxDxH)			890 x 3		890 x 2	33 x 307					890 x 233 x 307					
	W	Weight		15	15.5		15.5		16.0		16.0		15		5.5		16.0	
Outdoor	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 28		85 x 550		840 x 330 x 880		
	Weight		[kg]	3	33 34		4	40		53		3		4		55		
	Sound Level - SPL ³ /Power (Cooling-Heating)		[dBA]	46-49	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	
Piping	Diameter	Diameter (Liquid/Gas)		6.35	6.35 / 9.52 6		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 [†]		[m]	20	/ 12	20/12		30 / 12		30 / 15		20 / 12		20 / 12		30 / 15		
	Chargeless Piping Length		[m]	1	0	10		15		7		10		10		7		
Operation Range	Cooling		[°C]		-10		+46				-10/+46		-10/+46		-10/+46			
Outdoor	Н	Heating [-15,	/+24				-25 /	+24	-25 /	+24	-25 /	/+24	
Indoor Unit Colour					Black Diamond / Red Diamond / White Diamond													

 ${\sf ZERL} = {\sf Zoned} \; {\sf Energy} \; {\sf Rating} \; {\sf Label}$

EER = Energy Efficiency Ratio COP = Coefficient of Performance

AEER = Annual Energy Efficiency Ratio

ACOP = Annual Coefficient of Performance

SPL = Sound Pressure Level

¹ SHi = Super High-

² Low-SHi = Low-Medium-High-Super High

3 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.

‡ Avge/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.



Learn more about the Black **Diamond Smart Series**

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PLEASE LOOK AFTER THE ENVIRONMENT AND RECYCLE



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



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