

# RapidHeat KW Series

New Zealand's quietest floor consoles\*



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

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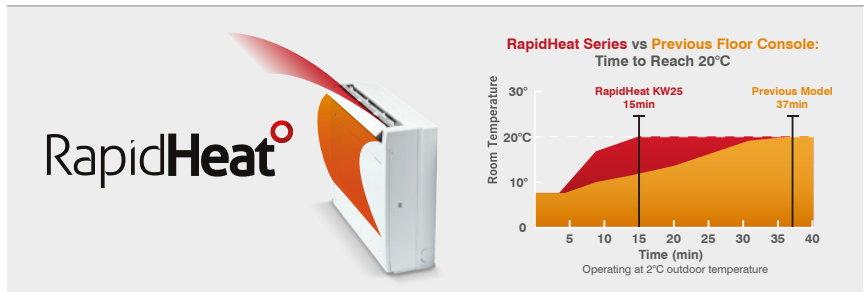
New Zealand's quietest floor consoles\* feature a contemporary slimline design and dramatically reduced depth. RapidHeat KW Floor Consoles are the perfect solution for unobtrusive heating at floor level. New advanced sensors with Intuitive Control Logic Technology offer unparalleled low temperature heating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



## NZ's Quietest Floor Consoles

Starting at barely a whisper, Mitsubishi Electric RapidHeat KW 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 KW 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.

## 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.



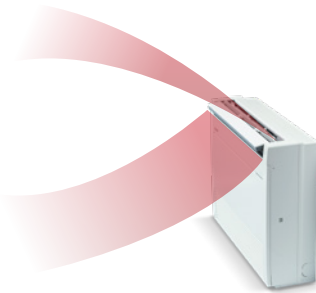
\* MFZ-KW25/35/42 indoor sound level on lowest fan setting in Heating Mode.

† Compared to the previous MFZ-KA Series,

# RapidHeat<sup>o</sup>

## 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.



Dimensions (WxDxH): 750 x 215 x 600mm

### MFZ-KW25VG

Heating Capacity: 3.4 kW | Cooling Capacity: 2.5 kW

### MFZ-KW35VG

Heating Capacity: 4.3 kW | Cooling Capacity: 3.5 kW

### MFZ-KW42VG

Heating Capacity: 5.4 kW | Cooling Capacity: 4.2 kW

### MFZ-KW50VG

Heating Capacity: 5.8 kW | Cooling Capacity: 5.0 kW

### MFZ-KW60VG

Heating Capacity: 6.5 kW | Cooling Capacity: 6.1 kW

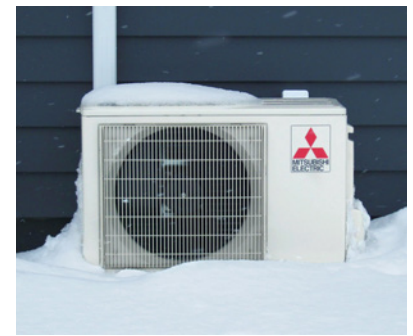
## HYPERCORE<sup>®</sup>

### MFZ-KW50VGHZ

Heating Capacity: 5.8 kW | Cooling Capacity: 5.0 kW

### MFZ-KW60VGHZ

Heating Capacity: 6.5 kW | Cooling Capacity: 6.1 kW



## HYPERCORE

## Anti-Allergy Enzyme Filter



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

## 7-Day Programmable Controller

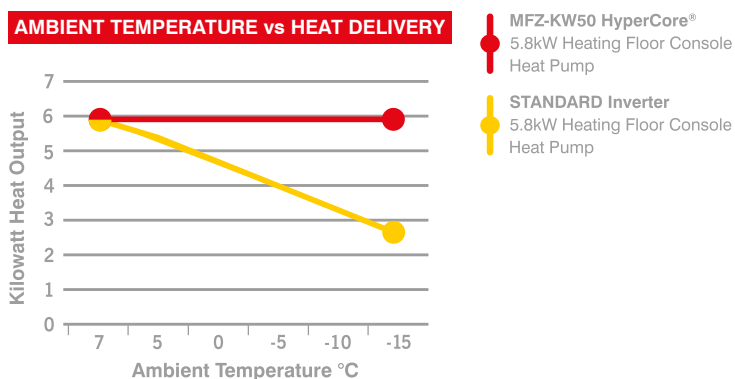


All RapidHeat KW Series Floor Consoles feature a built-in weekly timer, allowing you to program up to four time and temperature settings for each day of the week. You can now return to comfort without having to manually adjust the temperature. Perfect for anyone with a busy lifestyle, the 7-Day Controller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

## Optional HyperCore Technology<sup>\*\*</sup>



The RapidHeat KW Series Floor Consoles come 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.



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



With optional 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.

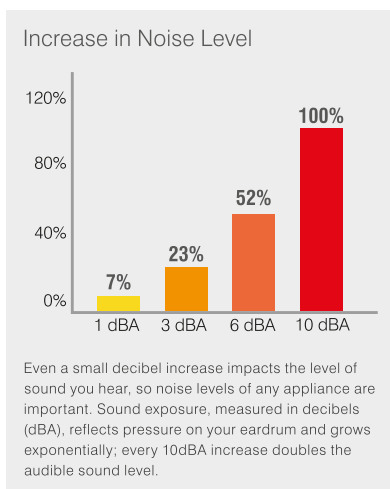
Wi-Fi Control is Amazon Alexa and Google Home enabled so you can take your comfort to the next level and enjoy hands-free heat pump control.

OPTIONAL  
**Wi-Fi**  
CONTROL

<sup>\*\*</sup> 5.0kW and 6.1kW models only.

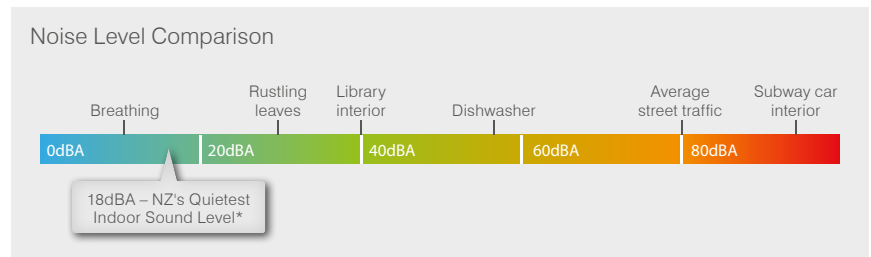
# New Zealand's Quietest Heat Pumps

Mitsubishi Electric consistently produces heat pumps which are not only feature-rich and efficient, but also very, very quiet. We recognise that noise affects comfort, so we constantly work to ensure our heat pumps are as quiet as possible. 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!



## Quietness on All Fan Speeds

Some manufacturers are happy for their heat pumps to operate quietly only on their lowest fan setting. Our heat pumps are designed to work differently, giving you quietly superior comfort on all fan speeds.



## 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.

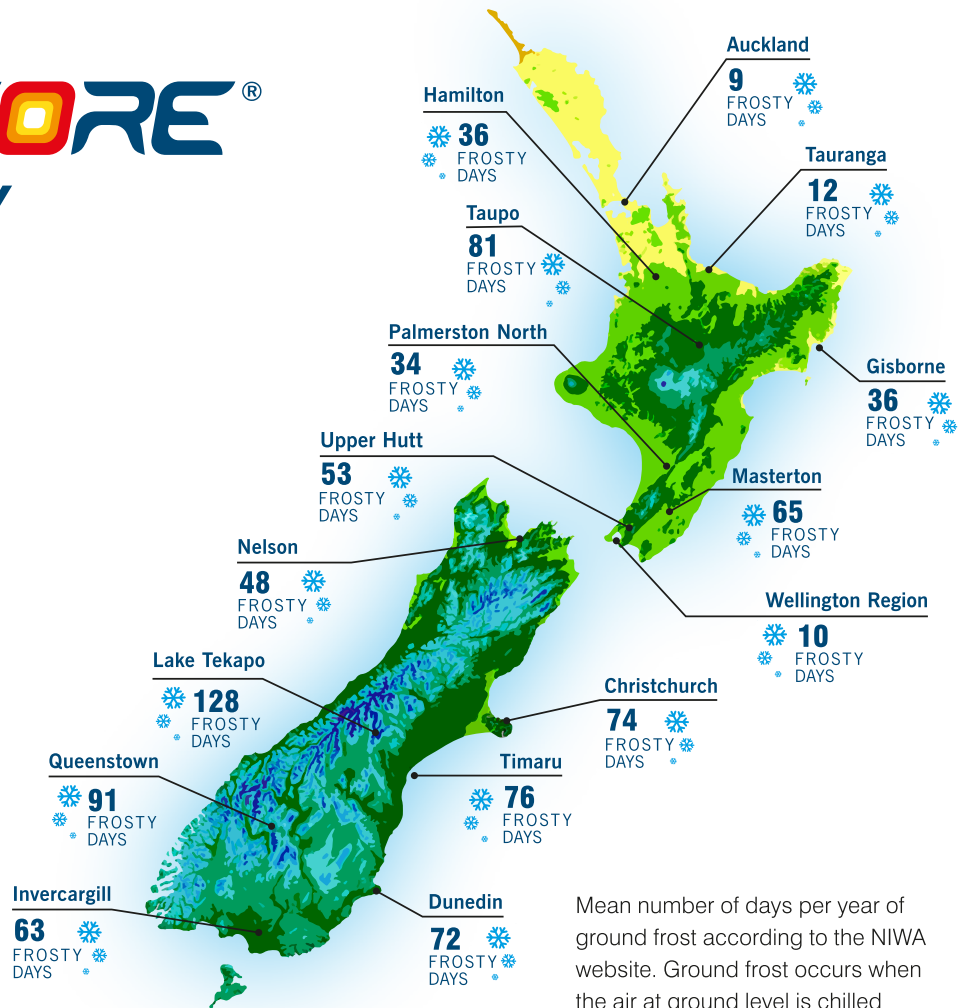


\* MFZ-KW25/35/42 indoor sound level on lowest fan speed in Heating Mode.

# THIS IS **HYPERCORE**<sup>®</sup> COUNTRY

This map shows just how many ground frost days there are right across the country on average during the year. In these low temperature conditions, the performance of a normal heat pump deteriorates. HyperCore Technology however, continues to provide the maximum level of energy efficient heating output.

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



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.

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

Did you know ordinary heat pumps start to produce less heat below 7 degrees? The reduction in heat produced by ordinary heat pumps is especially noticeable when temperature drops below zero.

This is because at these low temperature conditions ordinary heat pumps can really struggle to cope. HyperCore guarantees its full rated heating capacity right down to -15 degrees!

Our HyperCore Heat Pumps will not lower their heating performance even when it is snowing outside. So you can be assured that you will be kept snug throughout winter. HyperCore is also highly recommended for humid and high altitude areas.

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.

# Specifications

QUICK GLANCE	TYPE		Floor Console System														
	SERIES		RapidHeat KW Series										RapidHeat KW Series HyperCore				
	MODEL		MFZ-KW25		MFZ-KW35		MFZ-KW42		MFZ-KW50		MFZ-KW60		MFZ-KW50GHZ		MFZ-KW60GHZ		
	REFRIGERANT		R32														
INDOOR UNIT		MFZ-KW25VG		MFZ-KW35G		MFZ-KW42VG		MFZ-KW50VG		MFZ-KW60VG		MFZ-KW50VG		MFZ-KW60VG			
OUTDOOR UNIT		MUFZ-KW25VG		MUFZ-KW35VG		MUFZ-KW42VG		MUFZ-KW50VG		MUFZ-KW60VG		MUFZ-KW50VGHZ		MUFZ-KW60VGHZ			
COOL		2.5kW 4.38 EER 20 dBA*		3.5kW 4.02 EER 20 dBA*		4.2kW 3.78 EER 20 dBA*		5.0kW 3.78 EER 27 dBA*		6.1kW 3.52 EER 27 dBA*		5.0kW 3.78 EER 27 dBA*		6.1kW 3.52 EER 27 dBA*			
HEAT		3.4kW 4.35 COP 18 dBA*		4.3kW 3.77 COP 18 dBA*		5.4kW 3.77 COP 18 dBA*		5.8kW 3.79 COP 29 dBA*		6.5kW 3.45 COP 29 dBA*		5.8kW 3.79 COP 29 dBA*		6.5kW 3.45 COP 29 dBA*			
ZERL STAR 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			
		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			
		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			
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	
	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 Sound Level	Quiet	[dBA]	20		20		20		27		27		27		27	
		Low-SHii <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			
	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 Sound Level	Quiet	[dBA]	18		18		18		29		29		29		29	
		Low-SHii <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			Optional MAC-568IF-E														
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							
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†	[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 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		-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-SHii = 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.

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

[www.mitsubishi-electric.co.nz](http://www.mitsubishi-electric.co.nz) | 0800 784 382

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