

# EcoCore AP Series Heat Pumps

This is New Zealand's Quietest Heat Pump – ever!



# EcoCore AP Series



The EcoCore AP Series High Wall Heat Pumps set a new standard in super energy efficient heating. Next generation EcoCore Technology is designed to use less power than ever before. And starting at just 18dBA\*, it's NZ's quietest – ideal for living rooms and bedrooms!



## New Zealand's Quietest Heat Pump!

Starting at an incredibly quiet 18dBA\* on its lowest fan speed, the AP25 indoor unit is New Zealand's quietest high wall heat pump ever. It is ideal where quietness matters most, in bedrooms even on the coldest of winter nights.

Furthermore, the addition of Night Mode means the outdoor operating noise level drops by a further 3dBA and any beeping sounds from the indoor unit are disabled – for the perfect night's sleep.



Heat Exchanger

32%  
THINNER\*



Fan Coil

22%  
LARGER\*

## The Secret to Quietness

By making the heat exchanger 32% thinner, and designing the fan coil to be 22% larger in comparison to previous models†, pressure loss across the heat exchanger is minimised and air can now be moved across a larger fan surface. Add to this a new aerodynamically designed fan coil, and a new level of quietness has been achieved!

## 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 all 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.



Dual Barrier Coating

### Comparison of dirt on heat exchanger, fan and air duct.

(Factory simulated in-house comparison)



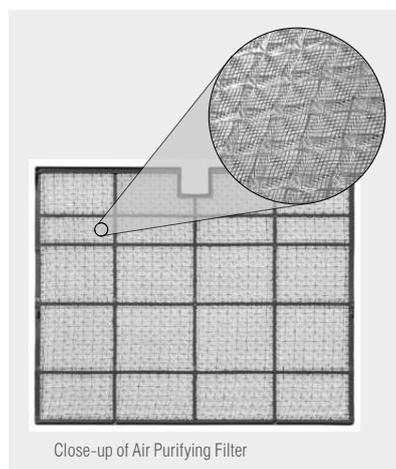
No Dual Barrier Coating (after 10 years)

With Dual Barrier Coating



## Next Generation R32 EcoCore Technology

Superior 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 super efficient and more environmentally friendly R32 refrigerant.



Close-up of Air Purifying Filter

## Washable Air Purifying Filter

The EcoCore AP Series is equipped with an Air Purifying Filter. This washable filter with antibacterial and deodorising properties traps particles such as dust, pollen and other airborne contaminants. The size of the three-dimensional surface has been increased from previous models, enlarging the filter capture area. These features give the Air Purifying Filter better dust collection performance than conventional filters.

## Horizontal Airflow

The EcoCore AP Series eliminates uncomfortable draughts with Horizontal Airflow in cooling mode, by first spreading airflow evenly across the ceiling.

## Wide and Long Airflow<sup>1</sup>

The Wide Airflow Mode enables airflow direction to be adjusted from left to right, ideal for open plan environments – ensuring every corner of the room is comfortable. The Long Airflow Mode extends airflow distance. These modes are simply activated at the touch of a button on your remote controller.

## 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. 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.

And because our Wi-Fi Control is now also Amazon Alexa and Google Home enabled<sup>2</sup>, you can take your comfort to the next level and enjoy hands-free heat pump control.



Dimensions (WxDxH): 798 x 219 x 299mm

### MSZ-AP25

Heating Capacity: 3.2 kW | Cooling Capacity: 2.5 kW

### MSZ-AP35

Heating Capacity: 3.7 kW | Cooling Capacity: 3.5 kW

### MSZ-AP42

Heating Capacity: 5.4 kW | Cooling Capacity: 4.2 kW

### MSZ-AP50

Heating Capacity: 6.0 kW | Cooling Capacity: 5.0 kW



Dimensions (WxDxH): 1100 x 257 x 325mm

### MSZ-AP60

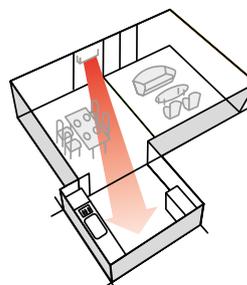
Heating Capacity: 6.8 kW | Cooling Capacity: 6.0 kW

### MSZ-AP71

Heating Capacity: 8.0 kW | Cooling Capacity: 7.1 kW

### MSZ-AP80

Heating Capacity: 9.0 kW | Cooling Capacity: 7.8 kW



## EcoCore AP Series High Wall Features



NZ's Quietest Heat Pump\*



Washable Air Purifying Filter



Econo Cool



Dual Barrier Coating



Horizontal Airflow



i-Save Mode



Next Generation Energy Efficient Compressor



Wide and Long Airflow<sup>2</sup>



7-Day Programmable Controller



Night Mode



Wi-Fi Control Built-In



1 Watt Low Standby Power

\* AP25 indoor sound level on lowest fan setting in heating mode. † Compared to MSZ-GL series. <sup>1</sup> AP60/71/80 models only. <sup>2</sup> For voice control you will need a Smart Speaker/Display/Assistant compatible with Amazon Alexa or Google Home.

QUICK GLANCE	TYPE		High Efficiency High Wall Heat Pumps							
	SERIES		EcoCore AP Series							
	MODEL		MSZ-AP25	MSZ-AP35	MSZ-AP42	MSZ-AP50	MSZ-AP60	MSZ-AP71	MSZ-AP80	
	INDOOR UNIT		MSZ-AP25VGKD	MSZ-AP35VGKD	MSZ-AP42VGKD	MSZ-AP50VGKD	MSZ-AP60VGKD	MSZ-AP71VGKD	MSZ-AP80VGKD	
	OUTDOOR UNIT		MUZ-AP25VG	MUZ-AP35VG	MUZ-AP42VG	MUZ-AP50VG	MUZ-AP60VG	MUZ-AP71VG	MUZ-AP80VG	
COOL	COOL		2.5kW 5.00 EER 19 dBA*	3.5kW 4.02 EER 19 dBA*	4.2kW 3.53 EER 26 dBA*	5.0kW 3.79 EER 28 dBA*	6.0kW 3.77 EER 29 dBA*	7.1kW 3.53 EER 30 dBA*	7.8kW 3.31 EER 30 dBA*	
	HEAT		3.2kW 4.78 COP 18 dBA*	3.7kW 4.57 COP 19 dBA*	5.4kW 3.78 COP 26 dBA*	6.0kW 3.70 COP 28 dBA*	6.8kW 4.07 COP 29 dBA*	8.0kW 3.83 COP 30 dBA*	9.0kW 3.53 COP 30 dBA*	
ENERGY RATING										
COOL	Capacity	Rated	[kW]	2.5	3.5	4.2	5.0	6.0	7.1	7.8
		Min-Max	[kW]	1.1-3.6	1.1-4.1	0.9-4.8	1.4-6.2	1.4-7.3	2.0-8.7	2.0-9.2
	Input	Rated	[kW]	0.50	0.87	1.19	1.32	1.59	2.01	2.36
	EER			5.00	4.02	3.53	3.79	3.77	3.53	3.31
	AEER			4.97	4.01	3.52	3.78	3.77	3.53	3.30
	Star Rating			5.5	3.5	2.5	3.0	3.0	2.5	2.0
	Indoor Sound Level	(Quiet)	[dBA]	19	19	26	28	29	30	30
		(Low-SHi <sup>1</sup> )	[dBA]	24-31-38-44	24-31-38-45	29-35-40-46	33-39-44-49	37-41-45-48	37-41-45-49	37-41-45-53
	Running Current (In+Out)		[A]	2.6	4.1	5.3	5.9	7.1	8.8	10.8
Air Volume In (SHI <sup>2</sup> )		[L/s]	205	223	223	258	315	310	343	
HEAT	Capacity	Rated	[kW]	3.2	3.7	5.4	6.0	6.8	8.0	9.0
		Min-Max	[kW]	1.3-5.0	1.3-5.1	1.3-6.0	1.4-8.0	2.0-8.6	2.2-9.9	2.2-11.0
	Input	Rated	[kW]	0.67	0.81	1.43	1.62	1.67	2.09	2.55
	COP			4.78	4.57	3.78	3.70	4.07	3.83	3.53
	ACOP			4.75	4.55	3.77	3.70	4.06	3.82	3.53
	Star Rating			5.0	4.5	3.0	3.0	3.5	3.0	2.5
	Indoor Sound Level	(Quiet)	[dBA]	18	19	26	28	29	30	30
		(Low-SHi <sup>1</sup> )	[dBA]	25-31-38-42	25-31-38-45	29-35-40-46	33-38-43-48	37-41-45-48	37-41-45-51	37-41-45-51
	Running Current (In+Out)		[A]	3.3	3.8	6.3	7.1	7.4	9.1	11.3
Air Volume In (SHI <sup>2</sup> )		[L/s]	190	215	233	268	338	320	320	
Controller	Standard	7-Day Programmable Controller								
	Optional Wired 7-Day Timer	Optional: PAR Controller (Interface Required)								
Power Supply	(Powered From Outdoor Unit)	230 V / Single Phase / 50 Hz								
	Maximum Current	[A]	7.0	7.1	9.9	14.0	14.0	16.4	16.5	
Indoor	Dimensions (WxDxH)	[mm]	798 x 219 x 299				1100 x 257 x 325			
	Weight	[kg]	10.5				17			
Outdoor	Dimensions (WxDxH)	[mm]	800 x 285 x 550			800 x 285 x 714		840 x 330 x 880		
	Weight	[kg]	34	34	35	40	40	55	55	
	Sound Level - SPL/Power (Cooling-Heating)	[dBA]	46-49 / 59-59	50-50 / 64-64	51-52 / 65-65	54-56 / 69-69	55-57 / 69-69	56-55 / 69-69	56-55 / 69-69	
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 <sup>†</sup>	[m]	20 / 12	20 / 12	20 / 12	20 / 12	30 / 15	30 / 15	30 / 15	
	Chargeless Piping Length	[m]	10	10	10	15	15	15	15	
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	-15 / 24	-15 / 24	
Colour		White								



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Exclusive distributor of  
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**WELLINGTON  
HEAD OFFICE**

1 Parliament Street  
PO Box 30772  
Lower Hutt 5040

Phone (04) 560 9147  
Fax (04) 560 9133

**AUCKLAND  
BRANCH**

Unit 1, 4 Walls Road  
PO Box 12726  
Penrose, Auckland 1642

Phone (09) 526 9347

**CHRISTCHURCH  
BRANCH**

44 Halwyn Drive  
PO Box 16904  
Hornby, Christchurch 8441

Phone (03) 341 2837

For more information on Mitsubishi Electric Heat Pumps  
please visit [www.mitsubishi-electric.co.nz](http://www.mitsubishi-electric.co.nz) or call our  
Customer Service Team on **0800 784 382**



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