



# EcoCore AP Series Heat Pumps

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



## **EcoCore AP Series**

ECOCORE®

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<sup>\*</sup>, 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.

## The Secret to Quietness

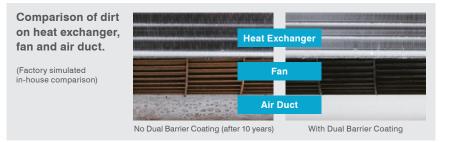
By making the heat exchanger 32% thinner, and designing the fan coil to be 22% larger in comparison to previous models<sup>†</sup>, pressure loss across the heat exchanger is minimised and air can now be moved across a larger fan surface. Add to this a new aerodynamically designed fan coil, and a new 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 buildup 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.





## 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.

Filter

Washable Air Purifying

The EcoCore AP Series is equipped with an Air Purifying Filter. This

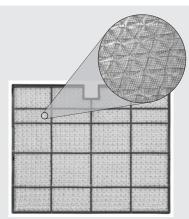
washable filter traps particles such

as dust, pollen and other airborne

antibacterial and deodorising effects. 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.

contaminants, generating stable



Close-up of Air Purifying Filter

## **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 by up to 12m to reach even the furthest point of open plan or larger living spaces. 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

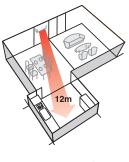
#### MSZ-AP60

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\*

Dual Barrier Coating

Next Generation Energy

Efficient Compressor

Night Mode



Washable Air Purifying Filter

Horizontal Airflow

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



7-Day Programmable Controller



1 Watt Low Standby Power

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









Econo Cool

i-Save Mode

	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
QUICK GLANCE	OUTDOOR UNIT			MUZ-AP25VG	MUZ-AP35VG	MUZ-AP42VG	MUZ-AP50VG	MUZ-AP60VG	MUZ-AP71VG	MUZ-AP80VG
	COOL			2.5kW 5.00 EER 19 dBA*	<b>3.5</b> kW 4.02 EER 19 dBA*	<b>4.2</b> kW 3.53 EER 26 dBA*	5.0kW 3.79 EER 28 dBA*	6.0kW 3.77 EER 29 dBA*	<b>7.1</b> kW 3.53 EER 30 dBA*	<b>7.8</b> kW 3.31 EER 30 dBA*
	HEAT			<b>3.2</b> kW <b>4.78</b> COP <b>18</b> dBA*	<b>3.7</b> kW 4.57 COP 19 dBA*	5.4kW 3.78 COP 26 dBA*	6.0kW 3.70 COP 28 dBA*	<b>6.8</b> kW <b>4.07</b> COP <b>29</b> dBA*	8.0kW 3.83 COP 30 dBA*	9.0kW 3.53 COP 30 dBA*
	ENERGY RATING			* * * * * ****************************	* * * * * * * * * * * * * * * * * * *	2.5 3.0	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *	2.5 3.0	2.0 2.5
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 Indoor		C (D A)	5.5	3.5	2.5	3.0	3.0	2.5	2.0
	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/		[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-SHi1)	[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 2 <sup>-</sup>	19 x 299			1100 x 257 x 325	
	Weight		[kg]		10	).5		16	1	7
Outdoor	Dimensions (WxDxH) [mm		[mm]	800 x 285 x 550			800 x 285 x 714		840 x 330 x 880	
	Weight [k		[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) [n		[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	Cooling		[°C]	-10 / 46	-10 / 46	-10 / 46	-10 / 46	-10 / 46	-10 / 46	-10 / 46
Range Outdoor	Heating		[°C]	-15 / 24	-15 / 24	-15 / 24	-15 / 24	-15 / 24	-15 / 24	-15 / 24
Colour				White						

EER = Energy Efficiency Ratio COP = Coefficient of Performance AEER = Annual Energy Efficiency Ratio ACOP = Annual Coefficient of Performance

## WITSUBISHI ELECTRIC

B D T Exclusive distributor of Mitsubishi Electric products in NZ

#### Sound Level:

\* Sound Levels rated at lowest fan speed.

<sup>1</sup> Low-SHi = Low / Medium / High / Super High

<sup>2</sup> SHi = Super High

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#### CHRISTCHURCH BRANCH

<sup>+</sup> Maximum length is inclusive of height differential.

across for a total length of 20m.

Rating Conditions (AS/NZS 3823)

i.e. (20/12) means the pipe can be 12m high and 8m  $\,$ 

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### For more information on Mitsubishi Electric Heat Pumps, please call our Customer Service Team on 0800 784 382

Be sure to ask for Mitsubishi Electric. Other brands share the 3-diamond logo, however they are separate to the Mitsubishi Electric brand and cannot supply the models, features or guarantees outlined in this brochure. | All models, features and specifications are subject to change and amendment at anytime. Printed April 2019.