



# 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.

## 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 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.







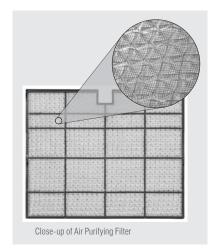






# **Next Generation R32 EcoCore Technology**

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.



# Washable Air Purifying Filter

The EcoCore AP Series is equipped with an Air Purifying Filter. This washable filter traps particles such as dust, pollen and other airborne contaminants, generating stable 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.

# \_\_\_\_\_

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

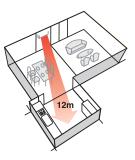
Heating Capacity: 6.8 kW | Cooling Capacity: 6.0 kW

#### MSZ-AP71

Heating Capacity: 8.0 kW | Cooling Capacity: 7.1 kW

#### MSZ-AP80

Heating Capacity: 9.0 kW | Cooling Capacity: 7.8 kW





## **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.

# **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>



Wi-Fi Control Built-In



Econo Cool



i-Save Mode



7-Day Programmable Controller



1 Watt Low Standby Power

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

	TYPE			High Efficiency High Wall Heat Pumps						
				EcoCore AP Series						
	SERIES									
	MODEL			MSZ-AP25	MSZ-AP35	MSZ-AP42	MSZ-AP50	MSZ-AP60	MSZ-AP71	MSZ-AP80
QUICK GLANCE	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			2.5kW 5.00 EER 19 dBA*	3.5kW 4.02 EER 19 dBA*	<b>4.2</b> kW <b>3.53</b> EER <b>26</b> dBA*	<b>5.0</b> kW <b>3.79</b> EER <b>28</b> dBA*	<b>6.0</b> kW <b>3.77</b> EER <b>29</b> dBA*	<b>7.1</b> kW <b>3.53</b> EER <b>30</b> dBA*	<b>7.8</b> kW <b>3.31</b> EER <b>30</b> dBA*
	HEAT			<b>3.2</b> kW <b>4.78</b> COP <b>18</b> dBA*	<b>3.7</b> kW <b>4.57</b> COP <b>19</b> dBA*	<b>5.4</b> kW <b>3.78</b> COP <b>26</b> dBA*	<b>6.0</b> kW <b>3.70</b> COP <b>28</b> dBA*	<b>6.8</b> kW <b>4.07</b> COP <b>29</b> dBA*	<b>8.0</b> kW <b>3.83</b> COP <b>30</b> dBA*	9.0kW 3.53 COP 30 dBA*
	ENERGY RATING			Townse data is read of the service o	The room with the room of the	Theory when 2.5 3.0	The more data the rice ways afficient and the same ways af	The room day for the sound of t	The nore than the noise start of the nore than the noise start of the	The rose season with the seaso
		Rated	[kW]	2.5	3.5	4.2	5.0	6.0	7.1	7.8
COOL	Capacity	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-SHi1)	[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 (SHi²)		[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 Power Supply Indoor	Standard			7-Day Programmable Controller						
	Optional Wired 7-Day Timer			Optional: PAR Controller (Interface Required)						
	(Powered From Outdoor Ur		,	230 V / Single Phase / 50 Hz						
	Maximum Current		[A]	7.0	7.1	9.9	14.0	14.0	16.4	16.5
	Dimensions (WxDxH)		[mm]	798 x 219 x 299 1100 x 257 x 325						-
Outdoor			[kg]	10.5 800 x 285 x 550 800 x				16 17 85 x 714 840 x 330 x 880		
			[mm] [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
			[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
Piping	Max. Length/Height <sup>†</sup>			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  $\mathsf{COP} = \mathsf{Coefficient} \ \mathsf{of} \ \mathsf{Performance}$ AEER = Annual Energy Efficiency Ratio

ACOP = Annual Coefficient of Performance

#### 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

† 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. Rating Conditions (AS/NZS 3823)





**Black Diamond Technologies** B D T Exclusive distributor of Mitsubishi Electric products in NZ

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