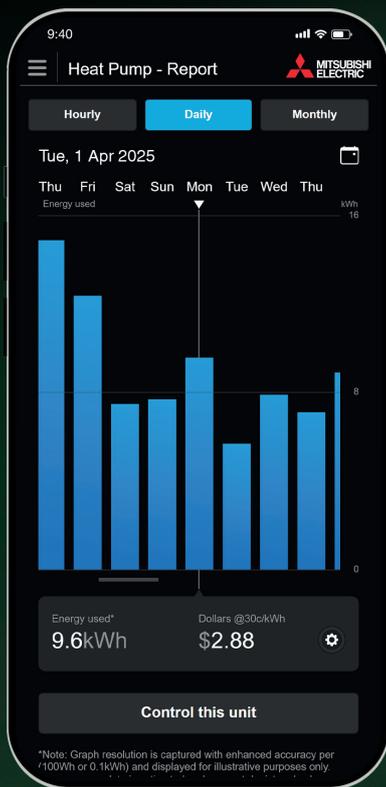


# AP Smart Series

The Quiet Achiever in Energy Efficiency



Smarter efficiency with  
Built-in Energy Monitoring.



\*AP25 indoor sound level on lowest fan setting in Heating Mode.

New Zealand's Quietest and Most Trusted Heat Pump\*

# AP Smart Series



New Zealand's quietest heat pump is now also NZ's smartest! The AP Smart Series sets the new benchmark for energy efficient heating and cooling featuring Built-in Wi-Fi Control Energy Monitoring for total control over your power use. Starting at just 18dBA\*, the AP Smart Series is ideal for living rooms and bedrooms.



Keep track of energy use – even when the kids take over!

## Built-in Wi-Fi Control Energy Monitoring

Did you know a 1 degree change in temperature can reduce energy use by up to 10%? Mitsubishi Electric Wi-Fi Control with Energy Monitoring truly puts the power in your hands. Now you have the visibility to make more energy efficient choices when heating and cooling your home – no matter where you are.

## Smart Monitoring for Efficient Heating and Cooling All Year Round

Using the Mitsubishi Electric Wi-Fi Control App, you can see at a glance on a monthly, daily and even hourly basis what the indicative energy consumption (kWh) and the indicative energy costs of running your heat pump looks like in dollars (\$).

## View Energy Usage by Month, Day or Hour



View by Month

View by Day

View by Hour

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

Pre-heat or cool a room no matter where you are. With Wi-Fi Control you'll always arrive home to total comfort.

## 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 for even the coldest of winter nights.

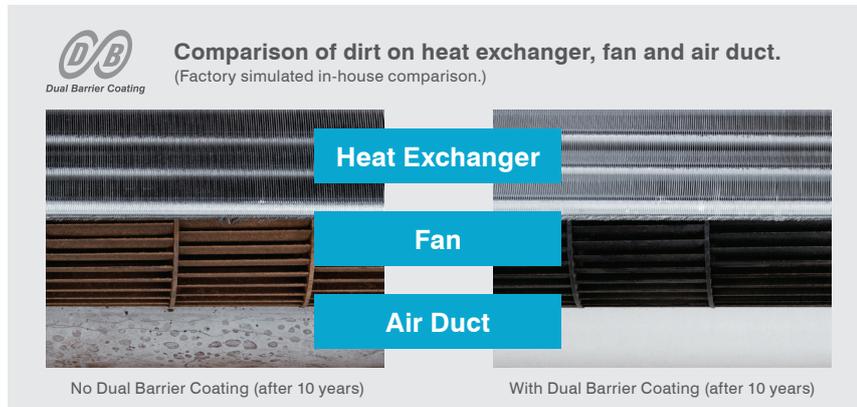
Furthermore, the addition of Night Mode means the outdoor operating noise level drops by a further 3dBA – for the perfect night's sleep.

\* AP25 indoor sound level on lowest fan setting in Heating Mode.



## 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.

## Energy Efficient EcoCore Inverter Technology



Superior energy efficiency is achieved by incorporating a large, high density heat exchanger, an advanced high efficiency fan motor and a next-generation inverter compressor that uses more efficient R32 refrigerant.

## 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.

## Horizontal Airflow



The AP Smart Series eliminates uncomfortable draughts with Horizontal Airflow in Cooling Mode, by first spreading airflow evenly across the ceiling.

## Wide and Long Airflow\*



The Wide Airflow Mode enables the airflow direction to be adjusted from left to right and is ideal for open plan environments – ensuring every corner of the room is comfortable. The Long Airflow Mode extends airflow distance.

## Washable Air Purifying Filter



The AP Smart 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.

\*AP60/71/80 models only.



Dimensions (WxDxH): 798 x 219 x 299mm

### MSZ-AP25VGKD2

Heating Capacity: 3.2 kW | Cooling Capacity: 2.5 kW

### MSZ-AP35VGKD2

Heating Capacity: 3.7 kW | Cooling Capacity: 3.5 kW

### MSZ-AP42VGKD2

Heating Capacity: 5.4 kW | Cooling Capacity: 4.2 kW

### MSZ-AP50VGKD2

Heating Capacity: 6.0 kW | Cooling Capacity: 5.0 kW



Dimensions (WxDxH): 1100 x 257 x 325mm

### MSZ-AP60VGKD2

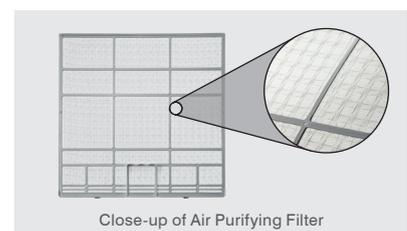
Heating Capacity: 6.8 kW | Cooling Capacity: 6.0 kW

### MSZ-AP71VGKD2

Heating Capacity: 8.0 kW | Cooling Capacity: 7.1 kW

### MSZ-AP80VGKD2

Heating Capacity: 9.0 kW | Cooling Capacity: 7.8 kW



Close-up of Air Purifying Filter

# AP Smart Series Specifications

QUICK GLANCE	TYPE		High Wall System													
	SERIES		AP Smart Series													
	MODEL		MSZ-AP25	MSZ-AP35	MSZ-AP42	MSZ-AP50	MSZ-AP60	MSZ-AP71	MSZ-AP80							
	REFRIGERANT		R32													
INDOOR UNIT		MSZ-AP25VGKD2	MSZ-AP35VGKD2	MSZ-AP42VGKD2	MSZ-AP50VGKD2	MSZ-AP60VGKD2	MSZ-AP71VGKD2	MSZ-AP80VGKD2								
OUTDOOR UNIT		MUZ-AP25VG2	MUZ-AP35VG2	MUZ-AP42VG2	MUZ-AP50VG2	MUZ-AP60VG2	MUZ-AP71VG2	MUZ-AP80VG2								
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 4.51 COP 19 dBA*	5.4kW 3.78 COP 26 dBA*	6.0kW 3.70 COP 28 dBA*	6.8kW 4.12 COP 29 dBA*	8.0kW 3.83 COP 30 dBA*	9.0kW 3.53 COP 30 dBA*								
ZERL STAR RATINGS		(NZ) Cold Area	6.0	3.0	5.0	3	4.0	2.0	4.5	2.0	4.5	2.5	3.5	2.0	3.5	2.0
		Avg Area†	5.5	3.0	4.5	3.5	4.0	2.5	4.0	2.5	4.0	2.5	3.0	2.5	3.0	2.5
		Hot Area†	6.0	3.5	5.0	4.0	4.0	3.5	4.5	3.5	4.5	3.0	3.5	3.0	3.5	3.0
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/AEER			5.00 / 4.97	4.02 / 4.01	3.53 / 3.52	3.79 / 3.78	3.77 / 3.77	3.53 / 3.53	3.31 / 3.30						
	Indoor Sound Level	Quiet	[dBA]	19	19	26	28	29	30	30						
		Low-SHi <sup>2</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 (Rated)	[A]	2.6	4.1	5.3	5.9	7.1	8.8	10.8							
	Air Volume In (SHi <sup>1</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	0.82	1.43	1.62	1.65	2.09	2.55						
	COP / ACOP			4.78 / 4.75	4.51 / 4.49	3.78 / 3.77	3.70 / 3.70	4.12 / 4.11	3.83 / 3.82	3.53 / 3.53						
	Indoor Sound Level	Quiet	[dBA]	18	19	26	28	29	30	30						
		Low-SHi <sup>2</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 (Rated)	[A]	3.3	3.8	6.3	7.1	7.3	9.1	11.3							
	Air Volume In (SHi <sup>1</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)														
Wi-Fi	Built-in with Energy Monitoring															
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						1,100 x 257 x 325							
	Weight	[kg]	10.5						16		17					
Outdoor	Dimensions (WxDxH)	[mm]	800 x 285 x 550				800 x 285 x 714				840 x 330 x 880					
	Weight	[kg]	35	35	36	41	41	55	55							
	Sound Level - SPL <sup>3</sup> /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†	[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							
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-SHi = 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.



Learn more about the AP Smart Series

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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