

AP Classic and AP Plus Series

Super Energy Efficient High Wall Heat Pumps



Next Generation High Efficiency Heat Pump Technology

EcoCore Series – AP Classic and AP Plus



The EcoCore Series AP Classic (with optional Wi-Fi) and AP Plus (with built-in Wi-Fi) 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 EcoCore Series 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 – for the perfect night's sleep.



Fan Coil

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!



Heat Exchanger

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.

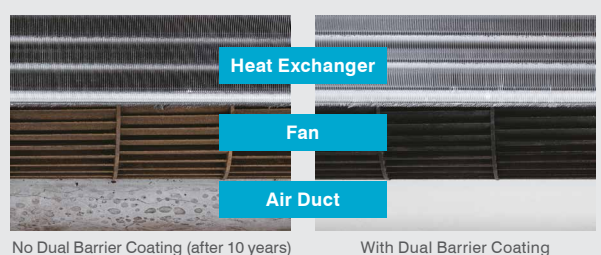
Dual Barrier Coating prevents dust and oil build-up on the interior of the heat pump for the ultimate in peace of mind, ease and comfort.



Dual Barrier Coating

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

(Factory simulated in-house comparison.)



* The EcoCore Series AP25 indoor sound level on lowest fan setting in Heating Mode.

† Compared to MSZ-GL Series.

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.

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.

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

Wide and Long Airflow*



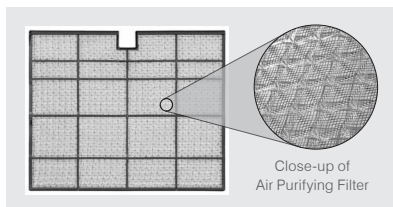
The Wide Airflow Mode enables the airflow direction to be adjusted from left to right and is ideal for open plan environments – ensuring every corner of the room is comfortable. The Long Airflow Mode extends airflow distance.

* AP60/71/80 models only.

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.

Optional Plasma Quad Connect for Cleaner, Healthier Air



Designed to integrate with your existing EcoCore AP Series Heat Pump, this high-performance two-stage advanced air filtration module, cleans and minimises dust and other allergens for better indoor air quality, all year round.

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. Wi-Fi Control is built-in to the AP Plus Series and available as an optional upgrade with the AP Classic Series.

AP Classic | AP Plus



Dimensions (WxDxH): 798 x 219 x 299mm

MSZ-AP25VG(K)D

Heating Capacity: 3.2 kW | Cooling Capacity: 2.5 kW

MSZ-AP35VG(K)D

Heating Capacity: 3.7 kW | Cooling Capacity: 3.5 kW

MSZ-AP42VG(K)D

Heating Capacity: 5.4 kW | Cooling Capacity: 4.2 kW

MSZ-AP50VG(K)D

Heating Capacity: 6.0 kW | Cooling Capacity: 5.0 kW



Dimensions (WxDxH): 1100 x 257 x 325mm

MSZ-AP60VG(K)D

Heating Capacity: 6.8 kW | Cooling Capacity: 6.0 kW

MSZ-AP71VG(K)D

Heating Capacity: 8.0 kW | Cooling Capacity: 7.1 kW

MSZ-AP80VG(K)D

Heating Capacity: 9.0 kW | Cooling Capacity: 7.8 kW

Optional
Plasma Quad Connect
Advanced Air Filtration

AP Classic

AP Plus

OPTIONAL
Wi-Fi
CONTROL

BUILT-IN
Wi-Fi
CONTROL

AP Classic and AP Plus Series Specifications

QUICK GLANCE	TYPE		High Wall System																
	SERIES		AP Classic Series and AP Plus Series																
	MODEL		MSZ-AP25		MSZ-AP35		MSZ-AP42		MSZ-AP50		MSZ-AP60		MSZ-AP71		MSZ-AP80				
	REFRIGERANT		R32																
	INDOOR UNIT		MSZ-AP25VG(K)D		MSZ-AP35VG(K)D		MSZ-AP42VG(K)D		MSZ-AP50VG(K)D		MSZ-AP60VG(K)D		MSZ-AP71VG(K)D		MSZ-AP80VG(K)D				
	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*		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*					
ZERL STAR RATINGS		(NZ) Cold Area		5.5	3.0	5.0	2.5	4.0	2.0	4.0	2.0	4.0	2.0	3.5	2.0	3.5	2.0		
		Avg Area†		5.0	3.0	4.5	3.0	3.5	2.5	4.0	2.5	3.5	2.5	3.0	2.5	3.0	2.5	3.0	2.5
		Hot Area‡		5.5	3.5	5.0	3.5	4.0	3.0	4.0	3.5	4.0	3.0	3.5	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‡	[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†)	[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 / ACOP		4.78 / 4.75		4.57 / 4.55		3.78 / 3.77		3.70 / 3.70		4.07 / 4.06		3.83 / 3.82		3.53 / 3.53			
	Indoor Sound Level	Quiet	[dBA]	18		19		26		28		29		30		30			
		Low-SHi‡	[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		7.4		9.1		11.3				
Air Volume In (SHi†)	[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	Optional upgrade for AP Classic Series / Built-In to AP Plus Series																		
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						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‡/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																		

EER = Energy Efficiency Ratio
 COP = Coefficient of Performance
 AEER = Annual Energy Efficiency Ratio
 ACOP = Annual Coefficient of Performance
 SPL = Sound Pressure Level
 † SHi = Super High

‡ Low-SHi = Low-Medium-High-Super High
 † SPL measured under rated operating frequency
 * 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.



Black Diamond
Technologies Limited



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