MITSUBISHI ELECTRIC

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

R32

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!

from 18dBA*

Fan Coil

22% LARGER†

Heat Exchanger

32% THINNER†

DB

Dual Barrier Coating

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.

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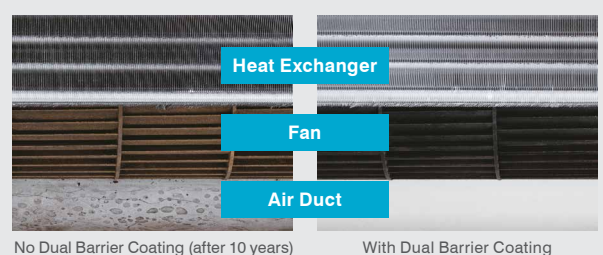
Dual Barrier Coating prevents dust and oil build-up on the interior of the heat pump for the ultimate in peace of mind, ease and comfort.

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

(Factory simulated in-house comparison.)

Heat Exchanger

Fan

Air Duct

No Dual Barrier Coating (after 10 years)   With Dual Barrier Coating

* 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.
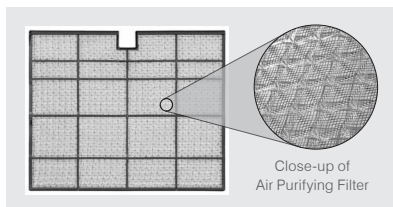
Wide and Long Airflow*

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.

Close-up of
Air Purifying Filter

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

				MSZ-AP25		MSZ-AP35		MSZ-AP42		MSZ-AP50		MSZ-AP60		MSZ-AP71		MSZ-AP80	
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
		Avge 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
		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

				MSZ-AP25	MSZ-AP35	MSZ-AP42	MSZ-AP50	MSZ-AP60	MSZ-AP71	MSZ-AP80
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[2]	[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[1])		[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[2]	[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[1])		[L/s]	190	215	233	268	338	320	320

				MSZ-AP25	MSZ-AP35	MSZ-AP42	MSZ-AP50	MSZ-AP60	MSZ-AP71	MSZ-AP80
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[3]/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
[1] SHi = Super High

[2] Low–SHi = Low–Medium–High–Super High
[3] 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.
‡ Avge/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.

For more information please visit our website or call our Customer Service Team.
www.mitsubishi-electric.co.nz | 0800 784 382
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