

Classic AP Series

Super Energy Efficient High Wall Heat Pumps



Next Generation High Efficiency Heat Pump Technology

Classic AP Series



The Classic AP Series High Wall Heat Pumps set a new standard in super energy efficient heating. 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 – for the perfect night's sleep.

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.

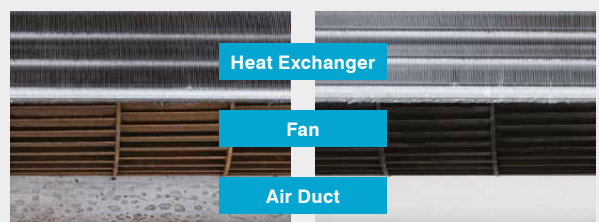
Keeping key internal components like the heat exchanger, fan and internal duct clean is important for both home comfort and efficiency. Not only does dust and dirt build-up typically create unpleasant odours, it also forces a heat pump to work harder, which can result in significantly impaired energy 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.)



No Dual Barrier Coating (after 10 years)

With Dual Barrier Coating

Next-Generation R32 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.

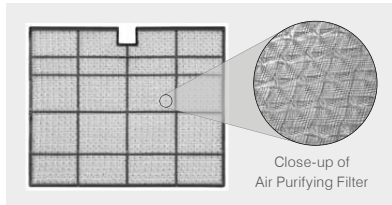


* AP25 indoor sound level on lowest fan setting in Heating Mode.

Washable Air Purifying Filter



The Classic 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.

Horizontal Airflow



The Classic 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.

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.

7-Day Programmable Controller



All Classic AP Series High Wall Heat Pumps feature a built-in weekly timer, allowing you to program up to four time and temperature settings for each day of the week. The 7-Day Controller is the perfect way to maximise energy efficiency without compromising on comfort.



Optional Wi-Fi Control!†

Never Return to a Cold Home Again



With optional 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.

Wi-Fi Control is Amazon Alexa and Google Home enabled so you can take your comfort to the next level and enjoy hands-free heat pump control.



Dimensions (WxDxH): 798 x 219 x 299mm

MSZ-AP25VGD

Heating Capacity: 3.2 kW | Cooling Capacity: 2.5 kW

MSZ-AP35VGD

Heating Capacity: 3.7 kW | Cooling Capacity: 3.5 kW

MSZ-AP42VGD

Heating Capacity: 5.4 kW | Cooling Capacity: 4.2 kW

MSZ-AP50VGD

Heating Capacity: 6.0 kW | Cooling Capacity: 5.0 kW



Dimensions (WxDxH): 1100 x 257 x 325mm

MSZ-AP60VGD

Heating Capacity: 6.8 kW | Cooling Capacity: 6.0 kW

MSZ-AP71VGD

Heating Capacity: 8.0 kW | Cooling Capacity: 7.1 kW

MSZ-AP80VGD

Heating Capacity: 9.0 kW | Cooling Capacity: 7.8 kW

OPTIONAL †
Wi-Fi
CONTROL

* AP60/71/80 models only.

† Wi-Fi adapter recommended to be mounted externally.

QUICK GLANCE	TYPE	High Wall System														
	SERIES	Classic AP Series - Optional Wi-Fi Only														
	MODEL	MSZ-AP25	MSZ-AP35	MSZ-AP42	MSZ-AP50	MSZ-AP60	MSZ-AP71	MSZ-AP80								
	REFRIGERANT	R32														
	INDOOR UNIT	MSZ-AP25VGD	MSZ-AP35VGD	MSZ-AP42VGD	MSZ-AP50VGD	MSZ-AP60VGD	MSZ-AP71VGD	MSZ-AP80VGD								
	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	4.5	2.5	4.0	2.5	3.5	2.0	3.5	2.0	3.5	2.0	3.0	2.0	3.0	2.0
		Avg Area [‡]	4.0	3.0	4.0	3.0	3.0	2.5	3.5	2.5	3.5	2.5	3.0	2.5	3.0	2.5
	Hot Area [‡]	4.5	3.5	4.0	3.5	3.5	3.0	3.5	3.0	3.5	3.0	3.0	3.0	3.0	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
		TCSPF Residential (Cold/Avg [‡] /Hot)	6.04 / 5.88 / 6.26	5.81 / 5.50 / 5.81	5.03 / 4.77 / 5.01	5.29 / 5.03 / 5.28	5.26 / 5.01 / 5.24	4.90 / 4.66 / 4.87	4.78 / 4.52 / 4.72
		TCSPF Commercial (Cold/Avg [‡] /Hot)	7.09 / 6.69 / 6.64	6.96 / 6.46 / 6.24	5.96 / 5.54 / 5.37	6.24 / 5.81 / 5.64	6.19 / 5.76 / 5.59	5.74 / 5.35 / 5.19	5.63 / 5.23 / 5.05
	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
		HSPF Residential (Cold/Avg [‡] /Hot)	4.38 / 4.73 / 5.01	4.24 / 4.74 / 5.16	3.64 / 4.12 / 4.59	3.68 / 4.11 / 4.58	3.94 / 4.33 / 4.74	3.80 / 4.26 / 4.76	3.59 / 4.09 / 4.68
		HSPF Commercial (Cold/Avg [‡] /Hot)	4.52 / 4.81 / 4.99	4.47 / 4.89 / 5.15	3.90 / 4.31 / 4.59	3.93 / 4.30 / 4.59	4.15 / 4.49 / 4.73	4.06 / 4.46 / 4.77	3.89 / 4.34 / 4.69
	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													
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													

ZERL = Zoned Energy Rating Label
TCSPF = Total Cooling Season Performance Factor
HSPF = Heating Season Performance Factor
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
* 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.



Black Diamond Technologies Limited



Exclusive New Zealand Partner Since 1981



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