

# Large Capacity AS90 High Wall

Ideal for Large Open Plan Shared Work Spaces



# Large Capacity AS90 High Wall

Combining powerful performance in an elegant and compact case, the AS90 offers high airflow, making it ideal for light commercial applications such as schools, halls, and open plan shared spaces.



## The Ideal Solution for Large Spaces

Boasting a capacity of 9.0kW in cooling (10.3kW in heating), this model features next-generation R32 high-efficiency compressor technology developed and engineered to use less power than ever before. The Wide and Long Airflow Mode, in addition to Powerful Mode, ensures far-reaching coverage making the AS90 ideal for larger, open working spaces.



## 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.

## Powerful Mode

The one-touch Powerful Mode automatically adjusts the fan speed and temperature, guaranteeing full power operation within 15 minutes for faster heating or cooling. After 15 minutes the unit automatically returns to its previous operation settings.

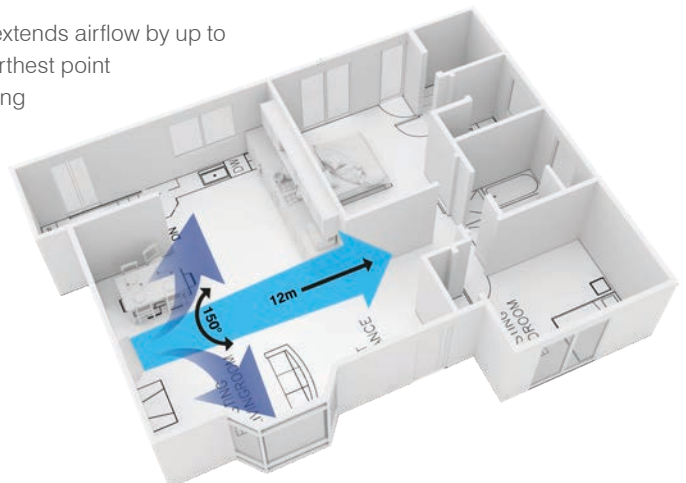


## Wide and Long Airflow

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.





Dimensions (WxDxH): 1170 x 295 x 365mm

### MSZ-AS90VGD

Heating Capacity: 10.3 kW | Cooling Capacity: 9.0 kW

## Two Stage Advanced Filtration



The AS90 Series is equipped with a standard air filter and an Anti-Allergy Enzyme Filter. This washable air cleaning filter traps harmful particles such as dust, pollen and other airborne contaminants that can cause allergic reactions. Furthermore, the filter itself is infused with an artificial Enzyme Catalyst that helps break down harmful microbes such as bacteria, mould and dust mites.

## Econo Cool Function



The Econo Cool function maximises energy efficient cooling. The target room temperature is automatically switched to Swing Mode to create a cooling breeze effect.

## i-Save Mode



Saves temperature and fan speed combinations, including a set-back temperature of 10°C in Heating Mode when the room is unoccupied. This means that the system will use less energy to reach the desired temperature once the room is reoccupied.

## 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.

## Night Mode



For the perfect night's sleep, you can dim the operation indicator light and disable any beeping from the unit, which will lower the outdoor operating noise level by a further 3dBA.

## 7-Day Programmable Controller



The Large Capacity AS90 High Wall Heat Pump System features 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 room again. With Optional Wi-Fi Control you can pre-heat or cool a room no matter where you are.



<b>QUICK GLANCE</b>	TYPE		High Wall System	
	SERIES		AS90	
	INDOOR UNIT		MSZ-AS90VGD-A1	
	OUTDOOR UNIT		MUZ-AS90VGD-A1	
	REFRIGERANT		R32	
	COOLING		9.0kW	
	HEATING		10.3kW	
	ENERGY RATING <sup>†</sup>		3.5	2.0
<b>COOL</b>	Capacity	Rated	[kW]	9.0
		Min-Max	[kW]	1.35–10.30
	Input	Rated	[kW]	2.78
		Min-Max	[kW]	0.43–3.98
	EER			3.24
	AEER			3.23
	Star Rating <sup>†</sup>			3.5
	Indoor Sound Level* <sup>†1</sup>	Quiet	[dBA]	30
		(Low-SHi* <sup>2</sup> )	[dBA]	36–42–48–54
	Running Current (Rated)		[A]	12.0
Air Volume In (SLo-SHi)		[L/s]	168.3–463.3	
<b>HEAT</b>	Capacity	Rated	[kW]	10.3
		Min-Max	[kW]	1.60–11.5
	Input	Rated	[kW]	2.94
		Min-Max	[kW]	0.42–3.9
	COP			3.50
	ACOP			3.50
	Star Rating <sup>†</sup>			2.0
	Indoor Sound Level* <sup>†1</sup>	Quiet	[dBA]	32
		(Low-SHi* <sup>2</sup> )	[dBA]	38–43–47–53
	Running Current (Rated)		[A]	12.6
Air Volume In (SLo-SHi)		[L/s]	203.3–430	
<b>Controller</b>	Standard		7-Day Programmable Controller	
	Optional Wired 7-Day Timer		Optional: PAR Controller (Interface Required)	
<b>Wi-Fi</b>	Optional		Optional: MAC-568IF-E	
<b>Power Supply</b>	(Powered From Outdoor Unit)		230 V / Single Phase / 50 Hz	
<b>Indoor</b>	Dimensions (WxDxH)	[mm]	1170 x 295 x 365	
	Weight	[kg]	20	
<b>Outdoor</b>	Dimensions (WxDxH)	[mm]	840 x 330 x 880	
	Weight	[kg]	53	
	Breaker Size	[A]	20	
	Sound Level - SPL/ PWL* <sup>3</sup> (Cooling/Heating)	[dB(A)]	56-56 / 69-69	
<b>Piping</b>	Diameter (Liquid/Gas)	[mm]	6.35 / 12.7	
	Max. Length/Height* <sup>4</sup>	[m]	30 / 15	
<b>Operation Range Outdoor</b>	Cooling	[°C]	-10 / 46	
	Heating	[°C]	-15 / 24	
<b>Colour</b>			White	

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

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.  
\*<sup>1</sup> Indoor Sound Levels rated at lowest fan speed  
\*<sup>2</sup> Low-SHi = Low-Medium-High-Super High  
\*<sup>3</sup> SPL/PWL measured under rated operating frequency

\*<sup>4</sup> Maximum length is inclusive of height differential i.e. (30/15) means the pipe can be 15m high and 15m across for a total length of 30m.  
† Star Rating is based on Seasonal Energy Efficiency Rating Standard for New Zealand - cold zone (GEMS2019)



Black Diamond Technologies Limited



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PRINTED APRIL 2021