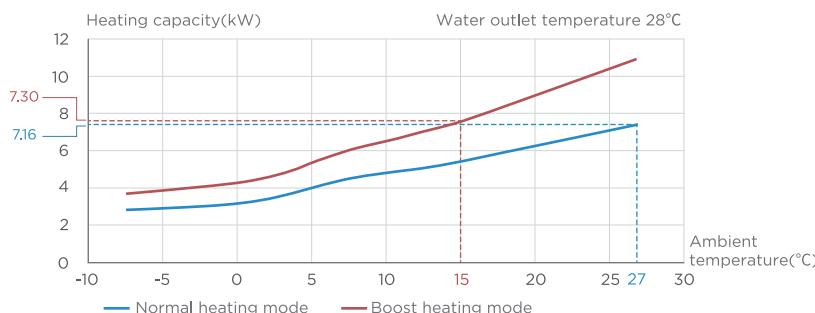


# ESG-Inv M Series Pool Heat Pump

- The ESG-Inv M Series is committed to create a future **Net-Zero** heat pump product that conforms to the sustainable development strategy in terms of manufacturing/materials/equipment use
- ESG-Inv M Series comfort the temp for pool and comfort the temp for environment



Warranty can be extended up to 5 years warranty for whole machine, and an additional charge of 2.5% per year will be charged for the portion beyond the standard warranty.  
\* T&C Apply



## No Attenuation

Boost heating/cooling modes ensure ESG-Inv M Series Pool Heat Pump has no attenuation of capacity. Boost heating mode has no attenuation of capacity at **15°C** ambient temperature compares with normal mode at **27°C** ambient temperature

Note:  
The curve on the left is for MSC-70D2N8-A, only for reference.  
Only MSC-160D2N8-A and MSC-200D2N8-A have boost cooling mode



## Heating&Cooling

ESG-Inv M Series contains **heating and cooling and pump** modes, covering a wide range of operating environment temperature and target water temperature

Note: In heating mode, the lowest operating ambient temperature of the customized unit can reach -20°C



Cooling Mode

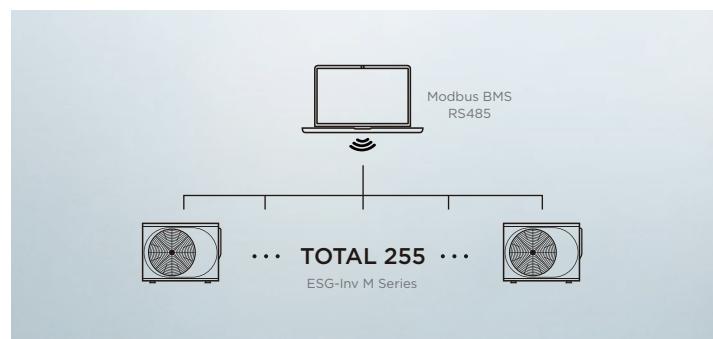
Heating Mode



## Silent Mode

Silent mode level 2: 38dB(A) sound pressure at 1m with 60% capacity

Note: For MSC-70D2N8-A, Ambient temperature DB 27/WB 24.3°C, Water outlet temperature 28°C



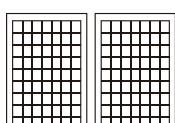
## IOT&APP

**App** controls and **IOT** platforms are designed to ensure user ease of operation and reduce equipment maintenance costs



## SG-Ready

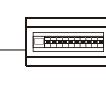
SG-ready ensures that ESG-Inv M Series uses as much clean energy as possible from the smart grid and stores the energy in the swimming pool. When the smart grid is fully supplied with clean energy, ESG-Inv M Series consume close to zero carbon



Photovoltaic System  
On The Roof



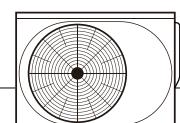
Inverter



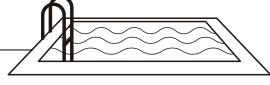
Smart Grid  
Management



Energy Storage



ESG-Inv M Series



Swimming Pool



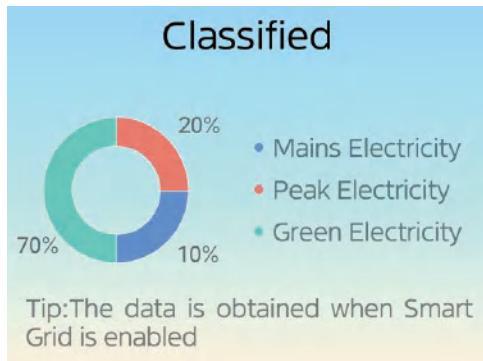
## Target temp reaching status by % display

On the new 86T wired controller, the target temperature approach rate can be displayed as progress bar. Users can clearly understand the trend and progress of reaching the setting temperature.



## Troubleshooting guidance & Convenient after-sales care

The new controller allows the installer to input the service hotline, so the users can easily contact with the serviceman for any maintenance requirement. QR code in the error details can be scanned to obtain the troubleshooting guideline which will help the maintenance become more efficient. Dealers and installers can also offer more remote faults monitor and diagnosis for each user in the case of device networking, ensuring the comfort of your home.

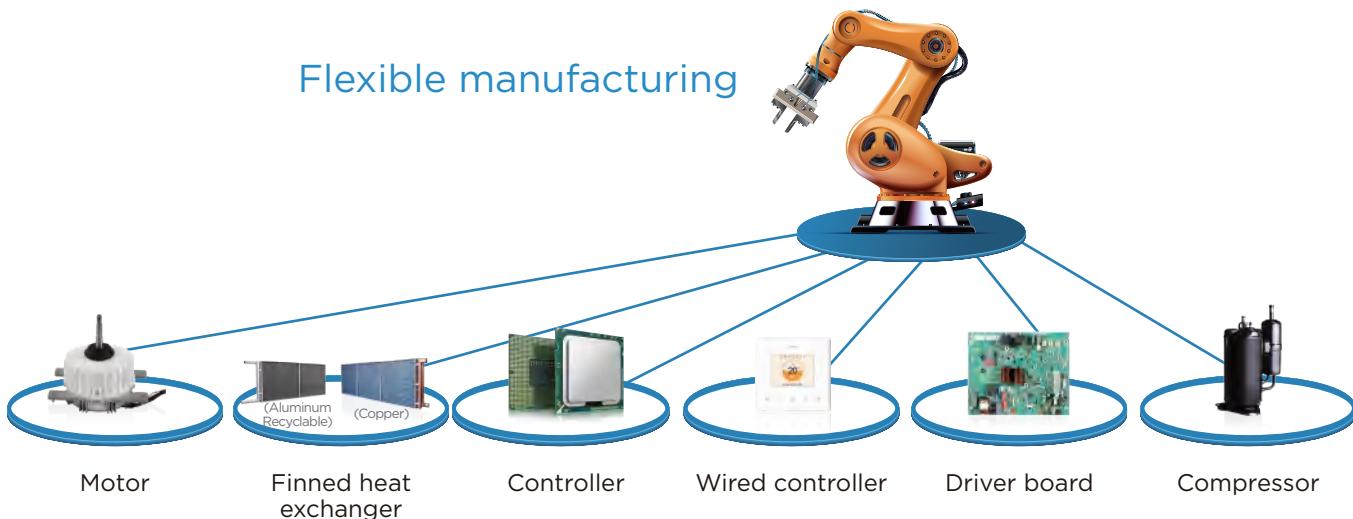


## Energy consumption display

1. The new controller allows the user to check the pool heat pump energy consumption by day/month/year.
2. It also shows the proportion of green electricity, mains electricity, and peak electricity among the electricity consumed when the machine is connected to a photovoltaic system or smart grid system.

The core components of ESG-Inv M Series are made by flexible manufacturing. Flexible manufacturing ensures stable delivery in the supply chain and offers partners more possibilities for product customization

## Flexible manufacturing

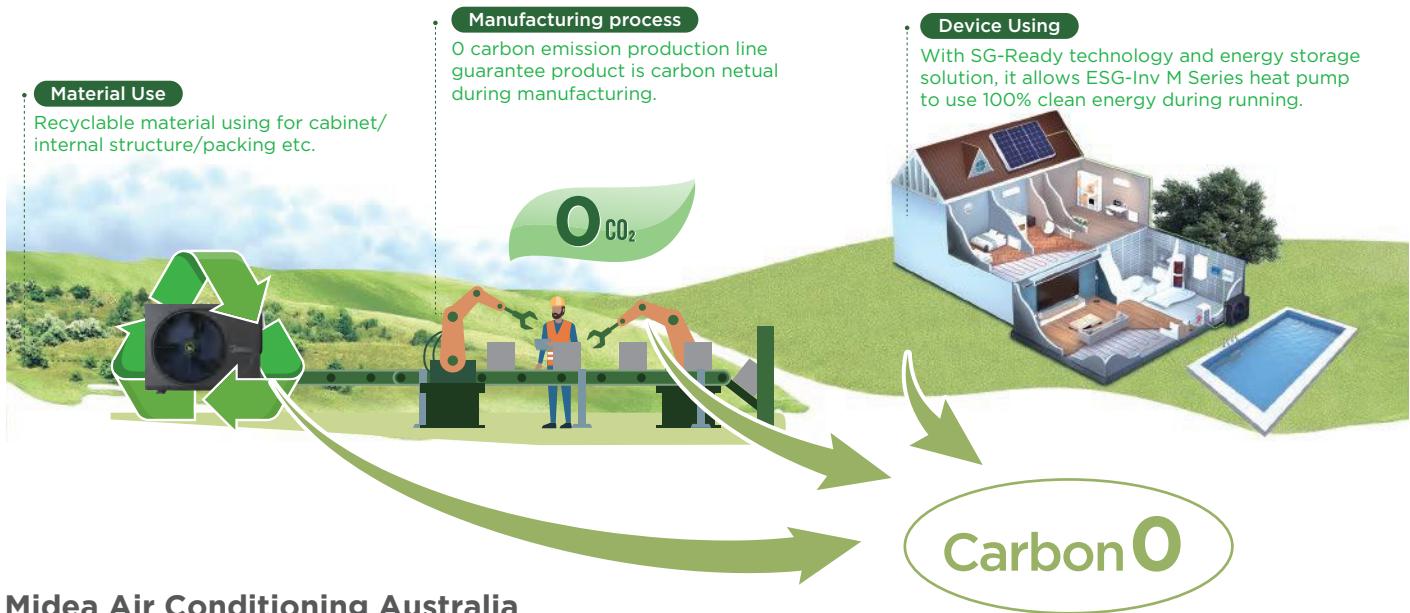


# Parameter Table

Midea Model		MSC-70D 2N8-A	MSC-90D 2N8-A	MSC-120D 2N8-A	MSC-160D 2N8-A	MSC-200D 2N8-A	MSC-160D 2RN8-A	MSC-200D 2RN8-A
Power supply			220~240V 1N 50Hz				380~415V 3N 50Hz	
Boost Mode(Max) capacity(Air 27°C/Water 26°C/Humid. 80%)	kW	2.9-10.3	2.9-12.8	2.8-14.5	3.8-18.7	3.8-21.8	3.8-18.7	3.8-21.8
COP		12.1-6.6	12.1-6.0	12.2-6.35	12.4-5.1	12.4-4.4	12.4-5.1	12.4-4.4
Heating capacity (Air 27°C/Water 26°C/Humid. 80%)	kW	2.9-7.16	2.9-9.15	2.8-12.5	3.8-16.0	3.8-18.8	3.8-16.0	3.8-18.8
COP		12.1-7.5	12.1-6.8	12.2-7.0	12.4-6.0	12.4-5.2	12.4-6.0	12.4-5.2
Boost Mode(Max) Heating capacity (Air 15°C/Water 26°C/Humid. 71%)	kW	1.9-7.3	1.9-9.3	2.0-10.5	3.5-15.0	3.5-17.0	3.5-15.0	3.5-17.0
COP		6.55-4.69	6.55-4.45	6.9-4.6	7.6-3.8	7.6-3.6	7.6-3.8	7.6-3.6
Heating capacity (Air 15°C/Water 26°C/Humid. 71%)	kW	1.9-5.3	1.9-6.8	2.0-9.1	3.5-12.8	3.5-14.5	3.5-12.8	3.5-14.5
COP		6.55-5.1	6.55-4.9	6.9-5.05	7.6-4.5	7.6-4.2	7.6-4.5	7.6-4.2
Cooling capacity (Air 35°C/Water 26°C)	kW	1.6-4.5	1.6-5.2	1.8-7.0	2.0-7.8	2.0-8.6	2.0-7.8	2.0-8.6
EER		4.2-4.0	4.2-3.35	4.7-4.0	3.8-3.0	3.8-2.6	3.8-3.0	3.8-2.6
Max current	A	10.5	11	12	18	23	7.5	9
Refrigerant type						R32		
Sound pressure level (1m)	dB(A)	41	43	49	50	54	50	54
Silent mode sound pressure level (1m)	dB(A)	39	39	40	41	43	41	43
Water flow	m³/h	3.1	3.9	5.4	6.9	8.3	6.9	8.3
Water pressure drop	kPa	4.6	7.3	13.8	23.0	33.0	23.0	33.0
Water connection	mm	50	50	50	50	50	50	50

Note:

- Three-phase units currently only have CE certification.
- Ambient temperature DB 27/WB 24.3°C, Water outlet temperature 28°C.
- Ambient temperature DB 15/WB 12°C, Water outlet temperature 28°C.
- Ambient temperature DB 35°C, Water outlet temperature 28°C.



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S-M202409V2

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