ESG-Inv M Series Pool Heat Pump

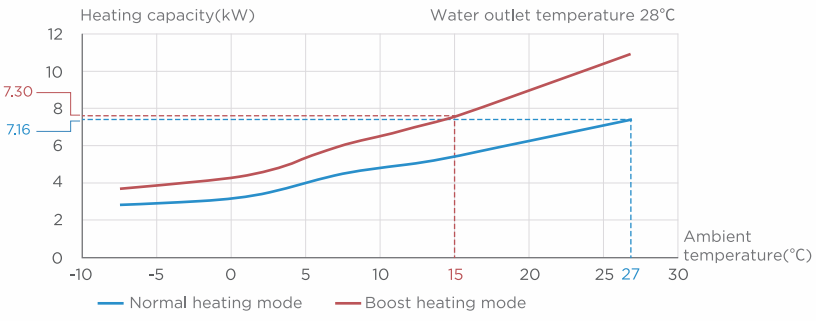
- The ESG-Inv M Series is committed to create a future **Net-Zero** heat pump product that conforms to the sustainable development strategy in terms of manufacturing/materials/equipment use
- ESG-Inv M Series comfort the temp for pool and comfort the temp for environment







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



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** ambienttemperature

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



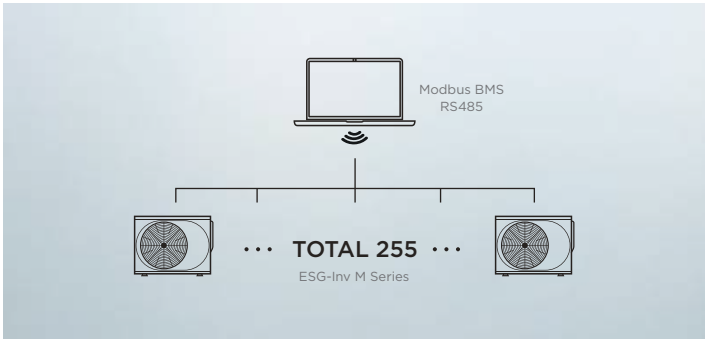
Silent Mode

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

Pool System Centralized Control

ESG-Inv M Series is compatible with all centralized control pool systems using **Modbus protocol**





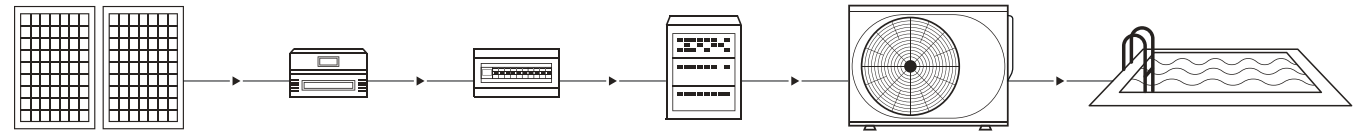
IOT&APP

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



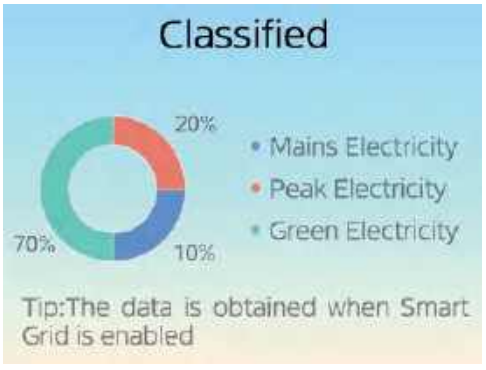
Target temp reaching status by % display

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 allow 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 optain the trouble shooting 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.



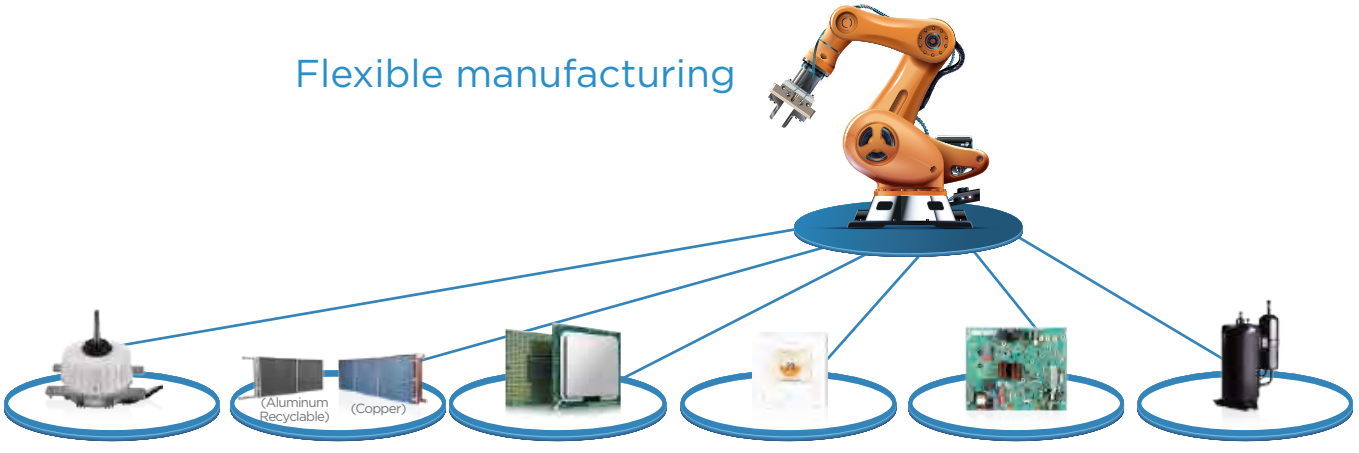


% Energy consumption display

1.The new controller alow the user to check the pool heat pump energy comsumption by day/month/year.
2.It also shows the 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

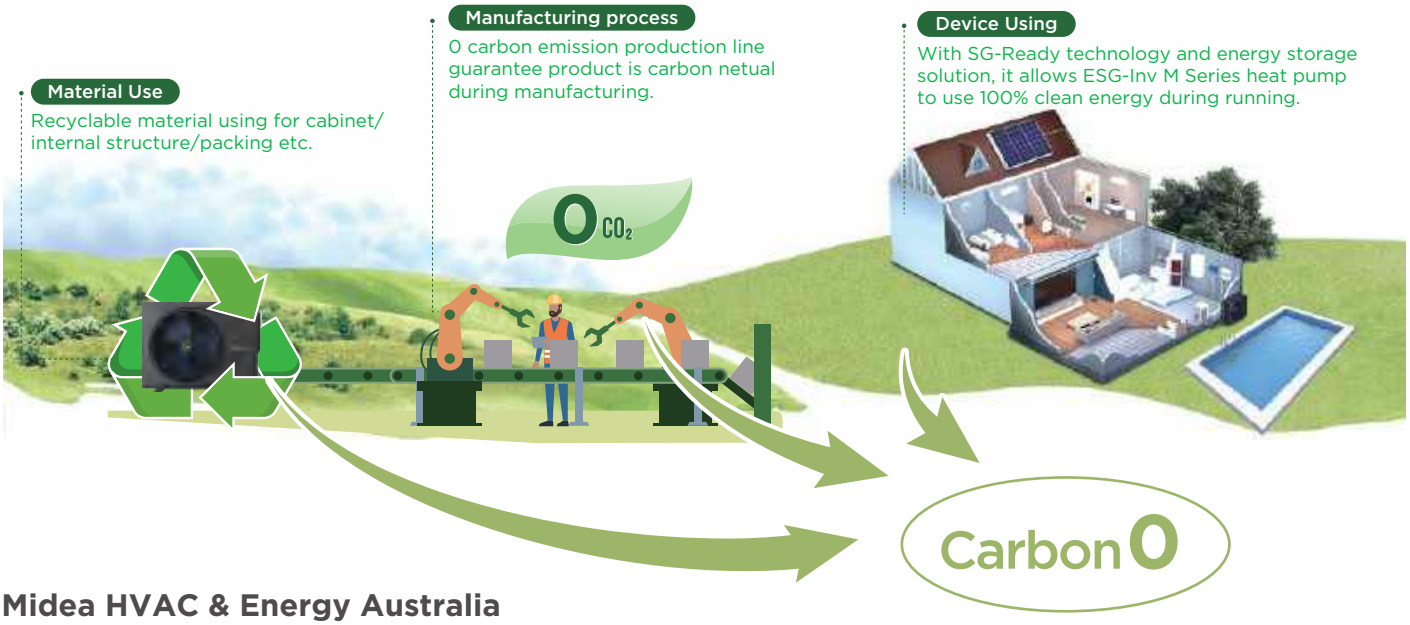
Flexible manufacturing



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	m^3/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:
1. Three-phase units currently only have CE certification.
2. Ambient temperature DB 27/WB 24.3°C, Water outlet temperature 28°C.
3. Ambient temperature DB 15/WB 12°C, Water outlet temperature 28°C.
4. Ambient temperature DB 35°C, Water outlet temperature 28°C.



Midea HVAC & Energy Australia

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Address: 1513 Dandenong Road Oakleigh VIC 3166 Australia
Email: info@mdhome.com.au
www.mdhome.com.au
Phone: 1300 726 002

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Environmental Management ISO 14001
Occupational Health and Safety Management ISO 45001