

# Pool Heating, Efficiently



Midea

M Series Pool Heat Pump



# Get more enjoyment from your pool with a Midea heat pump pool heater from Chromagen



## Get the most from your lifestyle

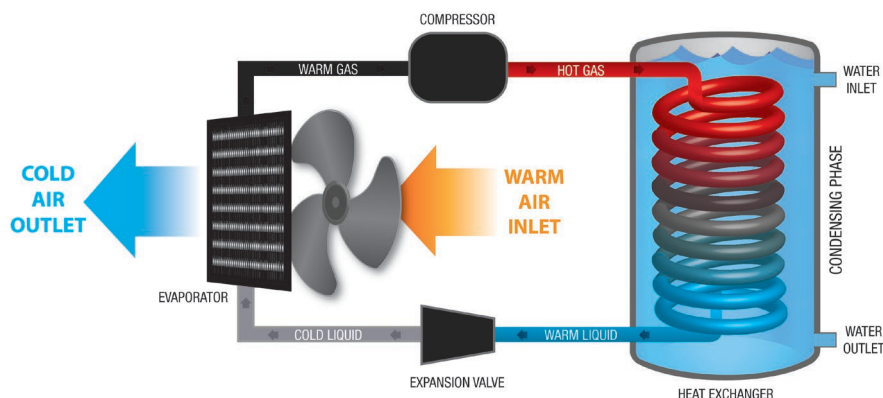
Revel in the comfort of perfect water temperature and enjoy low running costs with an efficient Midea heat pump pool water heater. This environmentally-friendly pool heater uses renewable energy technology to harvest the plentiful free heat energy from the air, to heat and maintain the desired temperature in your pool.

Midea heat pump pool heaters are ideal for use with most common sized residential pools and will extend your swimming season, so you get much more from your lifestyle investment.

## How Midea pool heat pump works

Heat pumps are designed to transfer heat from one medium to another using only a small amount of power.

1. A fan draws in air, containing heat energy, across the evaporator
2. The cold liquid refrigerant in the evaporator absorbs the heat energy from the air and turns into a warm gas.
3. The compressor pressurises the refrigerant and turns it into a super-hot gas
4. The super-hot gas moves into the condenser where the heat is transferred to the circulating pool water via a heat exchanger
5. The refrigerant reverts back to a liquid after and continues back to the evaporator as a cold gas for the process to start again



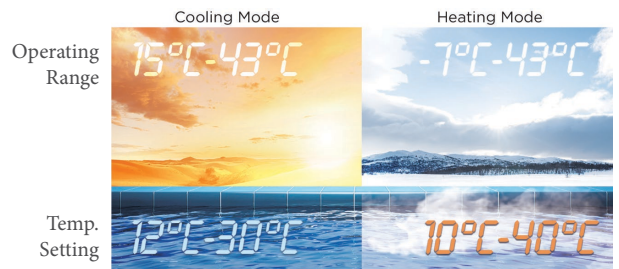
Representation of water heating process inside of heat pump unit

# Features



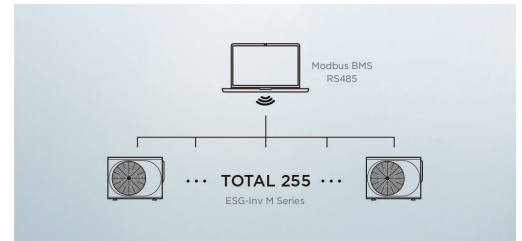
## Heating & Cooling

Contains heating and cooling and automatic modes, covering a wide range of operating environment temperatures and target water temperatures



## Pool System Centralized Control

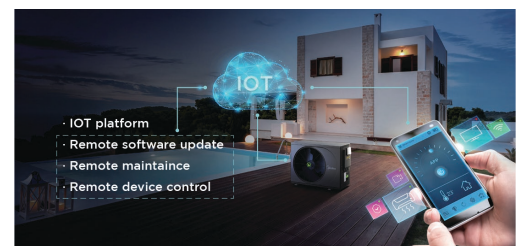
Compatible with all centralised control pool systems using Modbus protocol



## IOT & APP

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

*NOTE: Chromagen takes no responsibility for Wi-Fi or app connection / compatibility*



## Smart Memory

Power-off memory function restores the M Series pool heat pump to preset parameters after restart



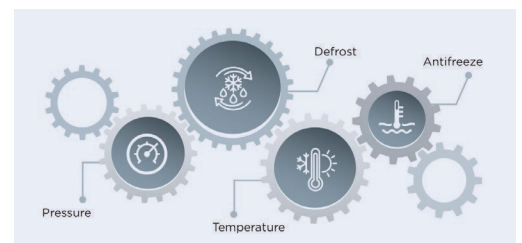
## Silence Mode

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



## System Protection

The M Series pool heat pump has more than 10 protection functions including defrost, pressure, temperature and antifreeze





## Specs

Model		MSC-200D2 N8-A
Power supply		220-240V-50Hz
	Boost heating capacity <sup>1</sup>	kW 21.8
	Heating capacity <sup>1</sup>	kW 18.8
	COP <sup>1</sup>	5.2
	Boost heating capacity <sup>2</sup>	kW 17.0
	COP <sup>2</sup>	3.6
	Cooling capacity <sup>3</sup>	kW 8.6
EER <sup>3</sup>		2.6
Max power	kW	5.3
Max current	A	23.0
Min. circuit breaker req'd	A	25
Refrigerant type		R32
Sound pressure level (1m) <sup>1</sup>	dB(A)	54.0
Silence mode level 2 sound pressure level (1m) <sup>1</sup>	dB(A)	40.0
Water flow	m <sup>3</sup> /h	8.3
Water pressure drop	kPa	33.0
Water connection	mm	50

Note 1. Ambient temperature DB 27/WB 24.3°C, Water outlet temperature 28°C  
 2. Ambient temperature DB 15/WB 12°C, Water outlet temperature 28°C  
 3. Ambient temperature DB 35°C, Water outlet temperature 28°C  
 4. MSC-200D2N8-A specifications are subject to change.

## Initial heat up period

Location	Spa	Swimming pool		
	3,000L	30,000L	50,000L	70,000L
Adelaide	3.1	17	29	41
Brisbane	2.5	11	19	26
Canberra	3.5	21	35	49
Hobart	3.8	24	41	57
Melbourne	3.6	22	36	51
Perth	3.0	16	26	37
Sydney	3.0	16	27	38

Based on the following conditions:

- Heat up month - October with pool/spa covered during heat up period
- Typical incoming cold temp (Adelaide = 17°C / Brisbane = 20.5°C / Canberra = 15°C / Hobart = 13°C / Melbourne = 14.5°C / Perth = 18°C / Sydney = 17.6°C)
- Final pool temp = 27°C; Final spa temperature = 35°C

## Warranty

Compressor	All Other Parts	Labour
5 Years	2 Years	1 Year



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*This revision supersedes all previous versions. All details in this document are accurate at time of publishing. Product specifications may change without notice. Visuals shown are representative and are to be used as a guide only. For the latest product details and specifications, please visit our website*