

# PIPELIFE



**ERLING HAALAND**  
OFFICIAL BRAND AMBASSADOR



## GAME CHANGING HEATING SOLUTIONS

Renewable Heating Solutions

## GAME CHANGING HEATING SOLUTIONS

Midea is recognised globally as the number one air-treatment brand and one of the world's largest heat pump manufacturers. Midea's promise is to support and encourage the long term care of our products and offer innovative friendly solutions to the ever evolving UK & Ireland market. This combined with Midea Group's high manufacturing volume and standards of excellence, ensures unparalleled product reliability. Midea is so confident in the reliability of our heat pumps that we provide an industry leading 10 year manufacturer's warranty\*.

The demand for renewable energy is on the rise and Midea Heat Pumps are a perfect solution for domestic hot water and heating. Our solution is a complete all-year round, integrated heating system which can replace or work in synergy with traditional gas or oil boilers maintaining continuous hot water supply up to 75 °C\*\*. Our all-in-one systems are designed for installation in any type of property. Compact, quiet and easy to install, Midea delivers low carbon alternatives to the domestic heating market.

Our renewable energy solutions provide a powerful heating substitute as effective as gas or oil boilers, without the use of fossil fuels. This delivers modern efficient solutions that balance Net Zero commitments with economic performance.



\*Warranty only valid with annual service.

\*\*R290 models at -5 °C

## AIR TO WATER HEAT PUMPS







# M THERMAL R32 MONOBLOC AIR TO WATER HEAT PUMP



**M Thermal provides an energy efficient solution that delivers space heating and cooling and domestic hot water. It is a complete all-year round, integrated heating system which can replace, or work in synergy with traditional gas or oil boilers.**

#### **WIDE OPERATION RANGE**

Available in single phase capacities of 4 kW - 16 kW, or three phase capacities of 12 kW to 30 kW

#### **DOMESTIC HOT WATER AND UNDERFLOOR HEATING**

The M Thermal can provide domestic hot water (up to 60°C) and underfloor heating, improving room comfort.

#### **PERFECT FOR SMALL SPACES**

The M Thermal is designed for installation in any type of property, especially homes with limited space. Being a compact system with a single unit installed outdoors means the available space indoors remains unchanged.

#### **PERFORMANCE**

A+++ ErP Energy Rating

Efficient heating capacity even when at -7°C air temperature. Maintains continuous hot water supply up to 60°C even with outdoor temperatures as low as -20°C

#### **EASY INSTALLATION & MAINTENANCE**

All functions are achieved with a single outdoor unit, bringing significant cost savings. Furthermore, installation is quicker and easier as there is no need for refrigerant piping, and the product is pre-charged at the factory. Two-door design for easy access to internal components for easy maintenance.

#### **QUIET OPERATION**

The M Thermal produces 35 dB(A) sound pressure level at 3 metres.

#### **ENERGY MONITORING AS STANDARD**

Energy consumption data for running cost analysis.

#### **INTUITIVE CONTROL**

The remote controller can be used for daily and weekly programming managing water production temperature, operating modes, etc. It also has built-in Wi-Fi as standard which can connect to the 'ICONNECT SMART HOME APP'. The unit can be controlled via the App and energy consumption can be viewed along with energy-saving suggestions.

CODE	MIDEA HEATPUMPS
3095900911	Pipelife Midea 4Kw Mono
3095900912	Pipelife Midea 6Kw Mono
3095900913	Pipelife Midea 8Kw Mono
3095900914	Pipelife Midea 10Kw Mono
3095900915	Pipelife Midea 12Kw Mono
3095900916	Pipelife Midea 14Kw Mono
3095900917	Pipelife Midea 16Kw Mono

Model	Output	Dimensions (mm)			SCOPS		Weight	Refrigerant
	-2/50	W	H	D	35°C	50°C		
MHC-V4W/D2N8-B	5.1kW	1295	792	429	4.66	3.56	95 Kg	R32
MHC-V6W/D2N8-B	5.7kW	1295	792	429	4.77	3.72	98 Kg	R32
MHC-V8W/D2N8-B	7.25kW	1385	945	453	5.03	3.67	121 Kg	R32
MHC-V10W/D2N8-B	8kW	1385	945	453	5.03	3.78	121 Kg	R32
MHC-V12W/D2N8-B	11kW	1385	945	453	4.67	3.68	144 Kg	R32
MHC-V14W/D2N8-B	14kW	1385	945	453	4.5	3.64	145 Kg	R32
MHC-V16W/D2N8-B	16kW	1385	945	453	4.49	3.59	146 Kg	R32



**ERP DIRECTIVE**

ηs Seasonal space heating energy efficiency

ηs average up to A+++ @ 35C

ηs average up to A++ @ 55C

**CERTIFIED BY**



## M THERMAL R32 MONOBLOC AIR TO WATER HEAT PUMP



### ECO FRIENDLY REFRIGERANT R32

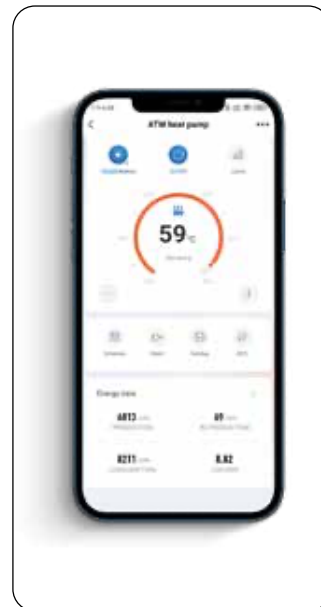
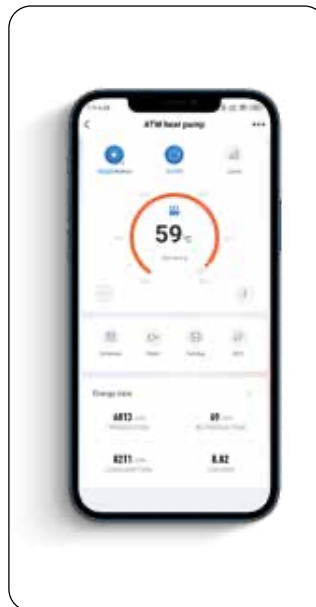
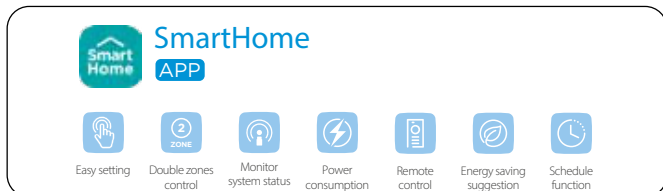
- Lower GWP 675 (GWP:Global Warming Potential)
- Zero impact on the ozone layer and less carbon emission
- Higher heat transfer coefficient
- Better performance in poor conditions
- Less pressure loss and no temperature glide
- Less charged volume and less cost

### POWERFUL HEATING WITH HIGH EFFICIENCY

- Operation range down to -25°C
- Maximum LWT reach 65°C for 4~16kW models
- Maximum LWT reach 60°C for 18~30kW models

## SMART CONTROLLER & APP

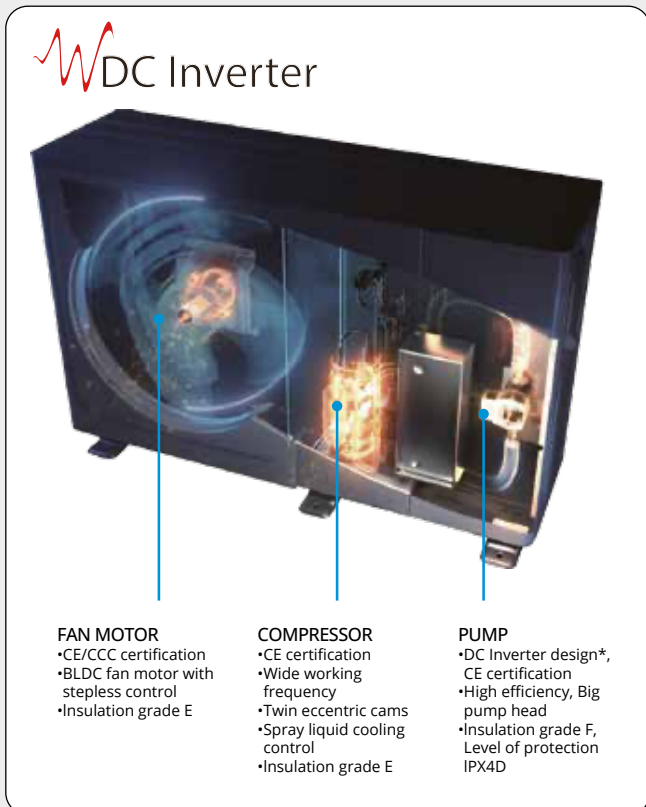
- Modbus protocol and network flexibility
- Built-in wifi module supports remote control
- Holiday home/away mode



Note: APP interface changes from time to time and may vary from those in this document.

## INVERTER SYSTEM DESIGN

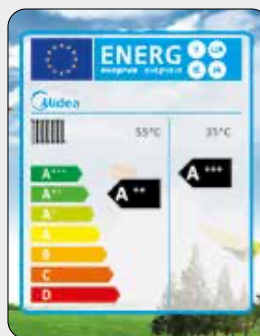
DC compressor, fan motor and pump allow precise control of motor speed, ensuring that only the necessary power to perfectly match the real load is used.



\*For Arctic Series Mono(18~30kW), water pump has three speed options, but units only use one of them.

## SMART GRID

Heat pump adjusts the operation mode according to different grid signals to realise energy saving. When the electric price is low or even free, heat pump takes DHW priority. When the electric price is high, DHW-related functions are limited. When the electric price is normal, heat pump operates according to users' requirement.



## ERP DIRECTIVE\*

Seasonal space heating energy efficiency  
ns average up to A+++ at 35°C  
ns average up to A++ at 55°C

\*It indicates the highest possible grade for M thermal product lineup. For specific grade of different models, please refer to the specification

## SILENT MODE

Mono 4kW model produces 35dB(A) sound pressure level at 3 meters thanks to multiple optimisation design.

Test conditions:

1. Outdoor air temperature 7°C DB, 6°C WB; Water inlet 30°C, Water outlet 35°C.
2. Outdoor air temperature 35°C DB; Water inlet 23°C, Water outlet 18°C.

## USB FUNCTION

USB port for simple and quick program upgrades. Via USB, installers can realise parameter transmission from one controller to another, time-saving and efficient.



# M THERMAL R32 MONOBLOC AIR TO WATER HEAT PUMP



Outdoor unit model			MHC-V4W/ D2N8-B	MHC-V6W/ D2N8-B	MHC-V8W/ D2N8-B	MHC-V10W/ D2N8-B	MHC-V12W/ D2N8-B	MHC-V14W/ D2N8-B	MHC-V16W/ D2N8-B	MHC-V16W/ D2RN8-B	
Power supply		V/Ph/Hz	220-240/1/50							380-415/3/50	
Heating <sup>1</sup>	Capacity	kW	4.20	6.35	8.40	10.00	12.10	14.50	15.90	15.90	
	Rated input	kW	0.82	1.28	1.63	2.02	2.44	3.15	3.53	3.53	
	COP		5.10	4.95	5.15	4.95	4.95	4.60	4.50	4.50	
Heating <sup>2</sup>	Capacity	kW	4.30	6.30	8.10	10.00	12.30	14.10	16.00	16.00	
	Rated input	kW	1.13	1.70	2.10	2.67	3.32	3.92	4.57	4.57	
	COP		3.80	3.70	3.85	3.75	3.70	3.60	3.50	3.50	
Heating <sup>3</sup>	Capacity	kW	4.40	6.00	7.50	9.50	11.90	13.80	16.00	16.00	
	Rated input	kW	1.49	2.03	2.36	3.06	3.90	4.68	5.61	5.61	
	COP		2.95	2.95	3.18	3.10	3.05	2.95	2.85	2.85	
Cooling <sup>4</sup>	Capacity	kW	4.50	6.50	8.30	9.90	12.00	13.50	14.20	14.20	
	Rated input	kW	0.82	1.35	1.64	2.18	3.04	3.74	3.94	3.94	
	EER		5.50	4.80	5.05	4.55	3.95	3.61	3.61	3.61	
Cooling <sup>5</sup>	Capacity	kW	4.70	7.00	7.45	8.20	11.50	12.40	14.00	14.00	
	Rated input	kW	1.36	2.33	2.22	2.52	4.18	4.96	5.60	5.60	
	EER		3.45	3.00	3.35	3.25	2.75	2.50	2.50	2.50	
Seasonal space heating energy efficiency class <sup>6</sup>	Water outlet at 35°C	class	A+++								
	Water outlet at 55°C	class	A++								
Refrigerant	Type(GWP)		R32(675)								
	Charged volume	kg	1.40		1.40		1.75				
Sound power Level <sup>7</sup>		dB	55	58	59	60	65	65	68	68	
Unit dimension (W×H×D)		mm	1295×718×429			1385×865×526					
Packing dimension (W×H×D)		mm	1375×885×475			1465×1035×560					
Net/Gross weight		kg	86/107			105/132		129/155			144/172
Outdoor air temperature range	Cooling	°C	-5~43								
	Heating	°C	-25~35								
	DHW	°C	-25~43								
Water side heat exchange			Plate type								
Water pump	Max. pump head	m	9								
Water side connection		mm	G1" BSP			G5/4" BSP					
Backup E-heater <sup>8</sup>	Standard mounted		kW	/							
	Optional		kW	3	3	3/9	3/9	3/9	3/9	3/9	
	Capacity steps			1	1	1/3	1/3	1/3	1/3	1/3	
	Power supply	3kW	V/Ph/Hz	220-240/1/50							
		9 kW		380-415/3/50							
Water temperature	Cooling	°C	5~25								
	Heating	°C	25~65								
	DHW (tank)	°C	20~60								

## Notes:

1. Evaporator air in 7°C, 85% R.H., Condenser water in/out 30/35°C
2. Evaporator air in 7°C, 85% R.H., Condenser water in/out 40/45°C
3. Evaporator air in 7°C, 85% R.H., Condenser water in/out 47/55°C
4. Condenser air in 35°C. Evaporator water in/out 23/18°C
5. Condenser air in 35°C. Evaporator water in/out 12/7°C
6. Seasonal space heating energy efficiency class testes in average climate general conditions.

7. Testing standard: EN12102-1.
8. Backup electric heater is built into all models. For three phase type backup electric heater, 3/6kW can be achieved by changing DIP switch when heat pump is equipped with 9kW.
9. Relevant EU standards and legislation: EN14511; EN14825; EN50564; EN12102; (EU) No 811/2013; (EU) No 813/2013; OJ 2014/C 207/02:2014.