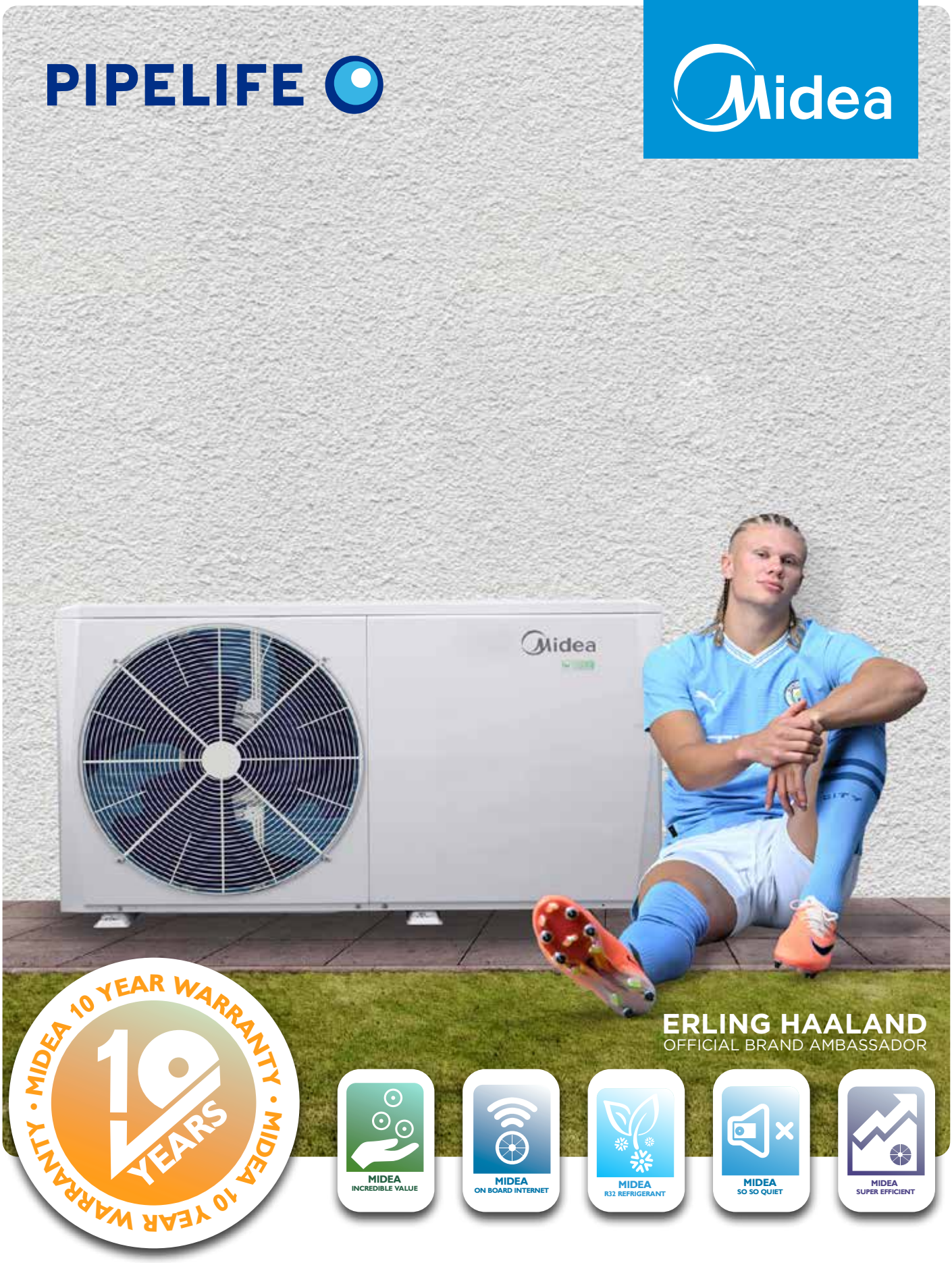
PIPELIFE

Midea




MIDEA 10 YEAR WARRANTY • MIDEA 10 YEAR WARRANTY •
10 YEARS

MIDEA INCREDIBLE VALUE

MIDEA ON BOARD INTERNET

MIDEA R32 REFRIGERANT

MIDEA SO SO QUIET

MIDEA SUPER EFFICIENT

MANCHESTER CITY | Midea
OFFICIAL PARTNER

# 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 unparallel 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.

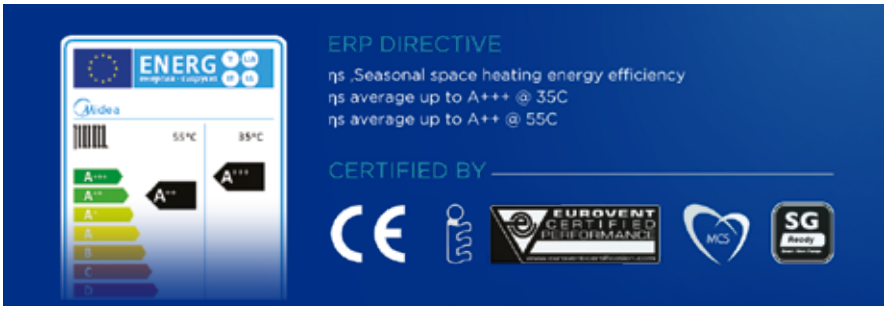
### QUIET OPERATION
The M Thermal produces 35 dB(A) sound pressure level at 3 metres.

### 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 |

# M THERMAL R32 MONOBLOC AIR TO WATER HEAT PUMP


## ECO FRIENDLY REFRIGERANT R32

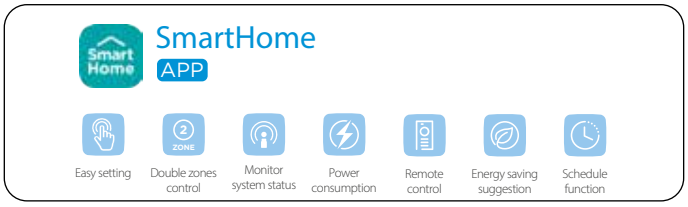
- Lower GWP 675 (GWP:Global Warming Potential)
- Zero impact on the ozone layer and less carbon emission
- Higher heat transfer coefficient
- Better performance in poor conditions
- Less pressure loss and no temperature glide
- Less charged volume and less cost

## 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

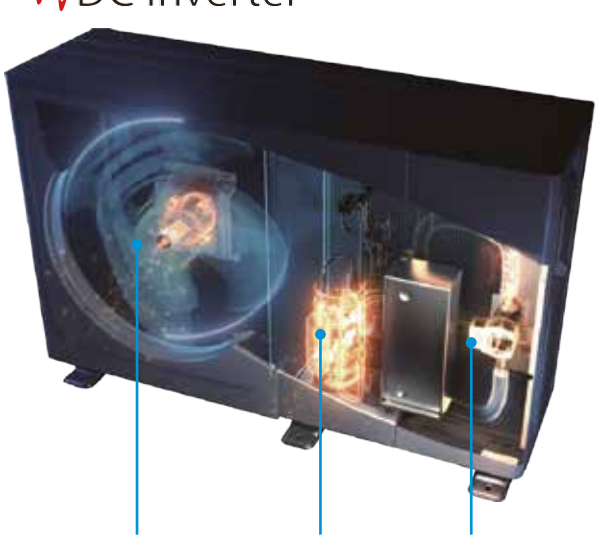
- Modbus protocol and network flexibility
- Built-in wifi module supports remote control
- Holiday home/away mode




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.




**FAN MOTOR**
- CE/CCC certification
- BLDC fan motor with stepless control
- Insulation grade E

**COMPRESSOR**
- CE certification
- Wide working frequency
- Twin eccentric cams
- Spray liquid cooling control
- Insulation grade E

**PUMP**
- DC Inverter design*, CE certification
- High efficiency, Big pump head
- Insulation grade F, Level of protection IPX4D

*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[1] | 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[2] | 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[3] | 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[4] | 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[5] | 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[6] | 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 Level7 | | | 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[8] | Standard mounted | | kW | / | | | | | | | |
| | Optional | | kW | 3 | 3 | 3/9 | 3/9 | 3/9 | 3/9 | 3/9 | 3/9 |
| | Capacity steps | | | 1 | 1 | 1/3 | 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.

# PIPELIFE CASED PRE-PLUMBED CYLINDER

**Pre-plumbed, indirect, unvented stainless-steel hot water storage cylinder.**

The Pipelife Cased Pre-Plumbed Cylinder Heat Pump and hot water storage cylinders are designed for use with an air source heat pump as the main heat source. They feature a purpose-designed coil with a large surface area to allow maximum heat transfer of renewable energy into the stored water.

The Pipelife cased pre-plumbed cylinder can be installed neatly within domestic spaces of a property. Featuring aesthetically pleasing white panelling, the unit is easily incorporated into the design of most modern homes.

The new space saving, sleek and stylish Pipelife cased unit has been manufactured with top class materials. It has been developed to work seamlessly with our Midea Monobloc air to water air source heat pump range, ensuring homeowners can avail of an optimum efficiency, complete heating solution that can be relied on for many years to come.

The cased unit has been pre-plumbed and pre-wired for a domestic hot water zone that allows hot water priority and a two-zone heating, with an option for a third heating zone. As the unit is pre-plumbed and pre-wired, it is time saving and enables a hassle free installation for the installer. The quick recovery 200 litre capacity single coil Integrated Unit has a solid, stainless steel coil which will lead to a much faster heating and recovery time and factory-fitted 3 kW immersion heaters to provide back-up heat.

**Features:**

- High gain 200 litre capacity single coil
- Dimensions – 1828mm (H) x 600mm (W) x 630mm (D)
- Easy access for installation and servicing
- Fully pre-plumbed and pre-wired
- Premium quality white case finish
- All pipework connections are Irish sizes (Imperial)
- Domestic hot water zone that allows hot water priority and a two-zone heating, with an option for a third heating zone
- Heating and DHW expansion vessels are installed
- Pressure reducing valve installed and plumbed
- Automatic by pass fitted as standard
- Fast reheat and high insulation values, resulting in high efficiency
- Solid stainless steel coil
- User friendly system controls and display easily accessed
- Quick drain down system.

CE RoHS 2 2011/65/EU

# PIPELIFE ECO TRAINING ACADEMY

## KEEP UP TO DATE AND ENHANCE YOUR KNOWLEDGE...

Renewable Heating Systems have become an important area for the building services industry. Understanding how to provide these sources, systems and applications is seen as key in meeting the future needs of both commercial and domestic heating.

Expertise is vital to renewables success and so Pipelife are delighted to offer a range of courses that have been specifically designed to provide experienced heating, plumbing, installation and building professionals with a real understanding of the potential for renewable energy sources, installation and their application. Relevant, practical, industry-leading training courses delivered at our state-of-the-art Academy in Cork or Dublin by fully qualified professionals in a relaxed, informal environment.

The courses are free to attend and will be led by members of our Technical Team who have a wealth of practical knowledge and installation practices, and feature a detailed tour of the Pipelife manufacturing facility where visitors are given the opportunity to see first-hand where our products are designed and manufactured. The free courses will be available to installers, service engineers, plumbers, merchants, architects, local authorities and BER Assessors. By offering a valuable insight into each of our heating technologies, those who attend our courses will be equipped with the best product knowledge and installation techniques, ensuring that our customers are fully satisfied. We are also a registered training provider with Engineers Ireland.

## TRAINING COURSES

**Heat Pump Training-**
Intended for domestic heating and renewable installers who wish to know more about our Air to Water heat pump range. Training covers both the Hitachi Yutaki S Split Combi and Midea Monobloc Heat pumps. This course covers its construction, principles of operation, electrical wiring, controller settings, sizing, selection of the correct unit(s) to suit the property concerned, installation considerations, requirements and commissioning the complete system.

ENGINEERS IRELAND
REGISTERED TRAINING PROVIDER 2024

ACCREDITED CPD COURSES

**Underfloor Heating -**
Intended for domestic heating installers of boilers or Air to Water Heat Pumps either with Underfloor Heating experience or those wishing to know more about Pipelife underfloor heating systems. This training course covers the basic principles of underfloor heating and the system design considerations, as well as full details of the Pipelife systems, their installation, filling, pressure testing and commissioning. Also included are full details of the Pipelife UFH control system, the options, operation, installation and set-up.

## CPD TRAINING FOR ARCHITECTS, ENGINEERS, ENERGY ASSESSORS, ETC

Continuous Personal Development (CPD) is training we provide here and off site for architects, engineers, energy assessors and similar minded professionals. These certified courses are available in many technologies, give insight and knowledge on current and new products and areas for which are relevant to attendees.

**Our course titles are -**

- Underfloor Heating Systems Design & Control
- An Introduction to Air to Water Heat Pumps – Split Combi Unit
- An Introduction to Air to Water Heat Pumps – Monobloc

To book your training day with Pipelife please contact us at Ireland@pipelife.com, contact us on 021 4884700 or visit our website www.pipelife.ie/training



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## E-MAIL – IRELAND@PIPELIFE.COM




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- **Smart Controls**
- **Heat Recovery Units**
- **Qual-Pex Plus+ Pipe & Fittings**
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**Courses can also be structured to suit your requirements**

**CPD Accredited Training Courses also available for Architects, Engineers, Energy Assessors etc.**

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PIPELIFE
always part of your life

# PEACE OF MIND FOR 10 YEARS

**ERLING HAALAND**
OFFICIAL BRAND AMBASSADOR


Midea

Midea
OFFICIAL PARTNER

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