

HOME HEATING SOLUTIONS



pipelifeeeco.ie



Our Reputation – Your peace of mind

Discover our full service portfolio online www.pipelifeeeco.ie

PIPELIFE 
Renewable Heating Solutions

PIPELIFE

BUILDING THE FUTURE



Pipelife has evolved into a one stop shop for all things Renewable” supplying complete systems from Underfloor Heating to Air to Water Heat Pumps, Smart Controls and mechanical extract ventilation etc. Our primary goal is to be a provider of industry-leading products and services to the building sector. Pipelife recognises that modern systems require fully designed specifications that our customers can have confidence in. We provide custom-designed systems, with full-design indemnity insurance and full-life after-sales support services. Our motto has been “Our Reputation, your peace of mind”, and this goal remains the cornerstone of everything we do.

Your home is your most important investment decision and heating your home represents the largest annual running cost you will have in ensuring your family’s comfort over many years. Choosing the right heating system and more importantly, the right supplier is a decision that will impact you for decades to come.

PIPELIFE IS ONE OF THE WORLD’S LEADING SUPPLIERS OF PLASTIC PIPE SYSTEMS, CURRENTLY PRESENT IN 26 COUNTRIES.

PIPELIFE MANUFACTURES AND MARKETS A WIDE RANGE OF QUALITY PIPE SYSTEMS, WITH ANNUAL SALES OF APPROXIMATELY 1BN.



A WARM WELCOME...

By choosing our Home Heating Solution and putting your trust in the capable hands of our team, you consciously make the following decisions:

- To deal directly with a reputable Irish manufacturer, and not with a middle-man
- To receive a comprehensive before and after-sales support from our team
- To use only top-quality pipes, made in Ireland, and not cheap import
- With the financial strength of being part of a leading multi-national group you can be sure that your Pipelife system will be fully supported. As an added re-assurance for you, Pipelife accepts full responsibility for the design of your system along with the specification, and supply of materials.
- We also carry full design indemnity and product liability insurance to cover all designs thus giving you peace of mind
- When you choose Pipelife you choose quality products, reliable systems and an after sales commitment that is second to none.
- And last but not least, to give yourself and your family a peace of mind, knowing that if the worst should happen, and the pipe buried underground gets damaged, your system is guaranteed for 50 years by a company who will surely be there in 50-years time.



OUR PRODUCTS – YOUR BENEFITS



Tried & Tested Technology

Pipelife is Ireland's leading manufacturer of underfloor heating systems comprising of our new Qual-Pex Plus+ 'Easy-Lay' Heating & Plumbing Pipe.



Full Design Service

Our in-house engineers can provide detailed plans for the application of renewable technologies specific to an individual projects from domestic to commercial. These include full heat loss calculations, energy saving estimates, plus a complete product and accessory specification.



Customer service

When you choose Pipelife, you have the support of our experienced customer service team, as well as backup provided by our specialist service engineers. Our in-house designers work with homeowners, contractors, architects & consulting engineers across the country in projects ranging from residential homes, hospitals and nursing homes to warehouses and car showrooms.



Wide Distribution Network

Our full product range can be found in all leading merchants throughout Ireland. You can obtain a list of merchants within your area through our website www.pipelife.ie



Your One Stop Shop

At Pipelife we believe in providing our customers with a one-stop-shop for complete package solutions; from market-leading products, free initial advice, through to bespoke design, installation, final commissioning and technical support, allowing you to purchase with confidence.



Our Commitment

Pipelife is Ireland's leading and trusted supplier to the plumbing industry for the last 50 years and with the financial strength of being part of a leading multi-national group you can be sure that your Pipelife system will be fully supported. As an added re-assurance for our customers, Pipelife accepts full responsibility for the design of your system along with the specification, and supply of materials. We also carry full design indemnity and product liability insurance to cover all designs.



UNDERFLOOR HEATING



HEAT PUMPS



ACCESSORIES



QUAL-PEX PLUS+ 'EASY-LAY' PIPES

WHY CHOOSE PIPELIFE ECO?

Quality, Service & Security

The heating solution you put in your home is a long term decision that you will live with for the lifetime of your home. Once installed it is very disruptive, disturbing and expensive to rectify any shortcomings. Given the expected long lifetime of the heating system it is critical that the company you choose will still be in operation over the long term. It is very important therefore that the company you choose to provide your heating solution has a strong financial standing and a proven history.

Our Promise

By choosing a Pipelife ECO heating solution you are putting your trust in the capable hands of our team. By doing so our promises to you are:

- ▶ You deal directly with a reputable Irish manufacturer, and not with a middle-man.
- ▶ Pipelife ECO will give you the best design, quality, service and security.
- ▶ You receive a comprehensive before and after-sales support from our extensive nationwide team.
- ▶ An unmatched 50-year guarantee on the lifetime of the pipework in your heating system.
- ▶ A 5-year warranty on all other parts & components used in your heating system.
- ▶ The security of knowing you are dealing with a reputable company with a 50 year history and very strong financial backing.

What We Can Offer You...

BESPOKE
SYSTEMS

IRISH
COMPANY

INTEGRATED
SYSTEMS

SPECIAL
SOFTWARE

STANDALONE
SYSTEMS

LATEST
TECHNOLOGY

TECHNICAL
KNOW HOW

20 + YEARS
EXPERIENCE

UNRIVALLED
EXPERIENCE

COMMITMENT
TO YOU

BACKUP
SERVICE

PEACE
OF MIND



ONE OF THE MAIN CONSIDERATIONS WHEN DESIGNING A HOME WILL BE HOW TO HEAT IT.

The ideal stage to consider your Home Heating requirements is during the design process and is one of the most critical items that you will put into your house. Most of the system will be buried in your floor foundation for the lifetime of your property. So it is critical that the components used are top quality and fully backed by reputable manufacturers.

Why put your trust in Pipelife Eco Home Heating Solutions?

In 1996, the original Underfloor Heating department was set-up. Fast forward to 2016 and our new Renewables Division was established incorporating all the best the Pipelife Group has to offer. We cover every aspect of your home heating requirements and deliver fully designed, energy efficient systems.

Manufactured In Ireland

Our Qual-Pex Plus+ Easy-Lay Pipe is 100% Irish made and is manufactured to the most stringent standards allowing you to install with confidence. Plus with every purchase of Qual-Pex Plus+ Easy-Lay Pipe you're supporting Irish Jobs!

Quality Choice

When you choose Pipelife Eco, You choose a quality product manufactured by a trusted leader of Plumbing & Heating Pipe in Ireland with almost 50 years' experience.

Did You Know?

Pipelife accepts full responsibility for the design of the system and the specification and supply of materials. As an added re-assurance, for the customer, Pipelife carries professional INDEMNITY INSURANCE to cover all designs.

Looking For More Information?

Why not drop us a line at Ireland@pipelife.com, visit our website pipelifeeco.ie or just pick up the phone and call us on 021 4884700.

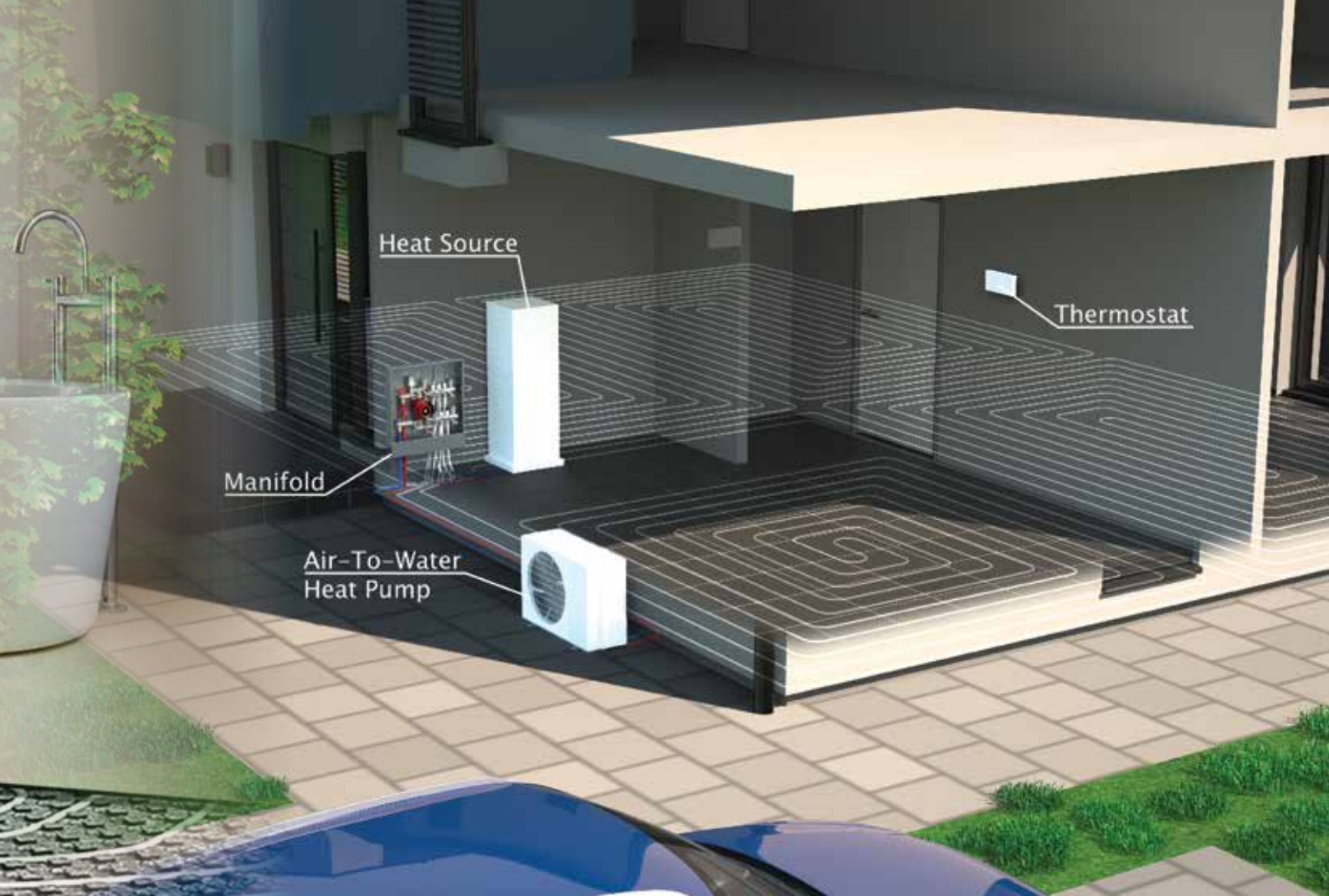


Air to Water Heat Pump

It is clear that our planet is changing and changes need to be made to the way in which we heat our homes. A method of heating our homes resulting in less energy consumption, lower running costs, and dramatically reduced CO₂ emissions and carbon footprint is required. There is a clearly a need for something different. Something Renewable.

With the support of Government schemes and homeowners wanting a better solution to these concerns, new and innovative ways of heating homes have been developed. These systems involve new and more efficient ways of heating and delivering hot water to your home compared to traditional ways of heating your home such as oil or gas boilers.

Pipelife Ireland specializes in Hitachi Yutaki-S Combi Air-to-water Heat Pump and Midea Mono Bloc Units. Heat Pumps operate by transforming energy from the outside air into heat, meaning every 1kW of electricity used to power the heat pump is capable of providing up to 5kW of energy in a well-insulated home - helping to reduce heating bills by up to 60% and cutting CO₂ emissions by 50% compared to traditional boiler-led heating systems.



How does an Air to Water Heat Pump work?

Air to water (or Air Source) heat pumps utilise energy in the outside air and transforms it into usable heat. This is performed through a refrigeration process and a vapour compression cycle, which sounds very complicated, but it's basically how a fridge works, but in reverse.

Heat pumps work much more efficiently at a lower temperature than a standard boiler system would. An air to water heat pump extracts heat from the outside air in the same way that a fridge extracts heat from its inside. It can get heat from the air even when the temperature is as low as -15° This makes them very suitable for underfloor heating systems or larger radiators, which give out heat at lower temperatures over longer periods of time.

An underfloor heating system circulates low temperature water. Most conventional heating systems circulate higher temperature water, usually between 50°C to 80°C whereas an underfloor heating system circulates water between 25°C to 40°C.

An Air to Water heat pump is the most modern and efficient way of generating this low temperature supply of water. A heat pump is the most efficient way of heating your home and your domestic hot water requirements for Irish climate conditions. Air to Water heat pumps also dramatically reduce CO₂ emissions and carbon footprints.

Benefits for Homeowners

- ▶ Comfortable, efficient & Affordable Heating
- ▶ Lower fuel bills
- ▶ Reduced carbon emissions
- ▶ Self-contained heating and hot water solution - just add a hot water tank
- ▶ Suitable for new build and renovation projects - can even be used with an existing boiler
- ▶ Up to 5x more efficient than a traditional oil/ gas boiler
- ▶ Satisfy renewable energy planning requirements
- ▶ 5 year warranty.



Thermal R32 Monobloc Air To Water Heat Pump

WHY MIDEA?

Midea is the worlds number one air-treatment brand, offering a wide range of commercial, residential, and even portable air-conditioners, dehumidifiers and air purifiers, as well as heaters and fans. Midea's promise is to support and encourage the long term care of our products and offer innovative friendly solutions to the ever evolving Irish economy, this combined with Midea Group's high manufacturing volume and standards of excellence ensures product reliability. In fact Midea is so confident in the reliability of our heat pumps we provide an industry leading 10 year manufacturers warranty.



Not only can you offer your customers the markets longest heat pump warranty, but we're also committed to supporting installers with the installation and commissioning of all our products. We provide full in-person training and encourage all installers to register their Midea device for warranty, followed by annual services giving the end user up to 10 years warranty and a properly maintained system.



Benefits of a Midea Heat Pump

• HOT WATER & 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 even with out door temperatures as low as -20 °C.

• COMPACT DESIGN

Our system is designed for installation in any type of property, especially homes with limited space. Our compact solution is a single unit that is installed on the outside of the property, taking up minimal space inside and can be used alongside an existing heating solution.

• EASY, SMART CONTROL

In-built smart controls and Mi Cloud software put you in total control whether you are in your armchair, at work, or on the way to the airport. The control with LCD screen can be used for multiple programming tasks, including the existing heating solution.

• PERFORMANCE

With the highest energy rating (A+++) available, even when at -7°C air temperature you can be sure that your Heat Pump is working hard to minimise your energy bills.

• EASY INSTALLATION & MAINTENANCE

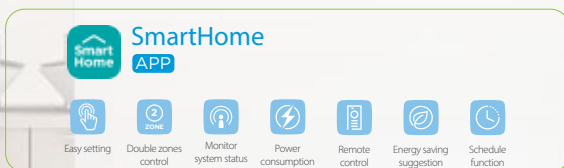
All functions are achieved with a single outdoor unit, bringing significant cost savings. Furthermore, installation is quicker and easier as there is no need for refrigerant piping, and the product is pre-charged at the factory. Two-door design for easy access to internal components for easy maintenance.

• WHISPER QUIET

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

• PEACE OF MIND

The Midea M Thermal Monobloc comes with an industry leading 10-year warranty.



HITACHI HEAT PUMPS

Yutaki Air to Water Heat Pump

1. Your needs change, Yutaki adapts

The day to day needs of your customers will change from heating in winter to cooling in summer and sanitary hot water all year round. They may want to connect solar panels and heat their swimming pools. It's therefore important to have a system able to meet all these needs; able to connect to any style of emitter, new or existing: radiators, underfloor or fan coils. Able to supply two different zones with different flow temperatures simultaneously such as underfloor downstairs and radiators upstairs.

2. Renewable Energy, Guaranteed Savings

Air source heat pumps are considered one of the most energy efficient technologies around, on account that they produce more energy in heat than they consume in electricity. The Yutaki range has the maximum A+++ energy classification in all its ranges ensuring you make savings on their energy bills, reduce electricity consumption and the impact on the environment.

3. A Wide Range

Hitachi have the widest range of capacities available for the domestic air source heat pump market. From 4.3 kW units ideal for new builds up to 24 kW units perfect for larger properties and retrofits.

4. Hitachi High-Efficiency Scroll Compressor

Hitachi's Scroll & Rotary DC Inverter compressor was designed to increase seasonal efficiency and reliability by reducing energy consumption. The compressor is particularly effective in between seasons, offering high efficiency under low partial loads.

5. Proven Quality - SG Ready

Hitachi heat pumps can be integrated into the smart energy grids of the future to help provide the low cost heating systems required to meet carbon reduction targets. All heat pumps and water heaters in the European market are continuously tested by various certification schemes. These are usually the basis for qualifying for state subsidies. Hitachi heat pumps meet the high standards of the following quality accreditation schemes: MCS, Keymark and KIWA.



6. Hitachi Experience

Hitachi has more than 60 years' experience in manufacturing heating equipment, with over 4.5 million ASHP systems produced and in excess of 400,000 customers throughout Europe. Our European factory produces the entire Yutaki ASHP range, designing it to meet the needs of the local European market. Its nearby location means we can control the whole design and manufacture process thus guaranteeing the highest levels of quality, reliability and durability in all our equipment.

The background of the page features a repeating pattern of light green, stylized leaf or teardrop shapes. On the left side, there is a large, vertical, light grey Hitachi Yutaki heating unit. In the foreground, partially overlapping the bottom left of the main unit, is a smaller, white outdoor fan coil unit with two circular fans and a 'HITACHI' logo. A green horizontal bar is positioned across the middle of the main unit, containing white text.

HITACHI HAS MORE THAN 60 YEARS' EXPERIENCE IN MANUFACTURING HEATING EQUIPMENT, WITH OVER 4.5 MILLION ASHP SYSTEMS PRODUCED AND IN EXCESS OF 400,000 CUSTOMERS THROUGHOUT EUROPE.

7. Optimised performance with the highest efficiency

The Yutaki range can provide heat with outside temperatures down to -25, uniquely to the market. It can also produce hot water up to 60° C without the need for a backup heater. Yutaki systems are designed to work without backup electrical heaters but some have them factory fitted and for others they are an optional extra. Even when fitted the user can use the simple control systems to disable them.

8. Simple installation with easy maintenance

Unlike other models on the market, all Yutaki systems are designed for easy access to the components, thus allowing straightforward maintenance and ensuring cost savings.

- Filter ball shut-off valve: Yutaki units are fitted with a ball valve containing an interchangeable cylindrical filter that is easy to inspect and remove for maintenance work. The individual valve has two important functions: to perfectly seal the ball valves and to carefully filter the fluid, with its high-reliability protecting all the components in Hitachi's Yutaki systems.
- Compared to traditional use of three components (one filter and two shut-off valves), Hitachi's Filter ball guarantees lower charge losses, in addition to the obvious benefits in terms of cost, installation and space.
- Accessibility: easy access to all components from the front of the machine.

Pipes: the pipes are perfectly aligned at the back of the unit, making installation much easier compared to other manufacturers.

9. Easy Configuration

The Yutaki controller enables quick, easy configuration thanks to its intuitive new wizard set-up interface. Having the same control throughout the range means any Yutaki can be configured in just 5 minutes.

10. Easy, smart control

With a sleek, award winning design, Hitachi's new advanced colour screen controller represents the perfect balance between elegance and ease-of-use. The controller can operate as both a master remote as well as wired room thermostat. The LCD controller can intuitively access and program all the key functionalities such as: space heating, DHW, second circuit settings, hybrid boiler combination and swimming pool settings.

The setup wizard can commission a system in just 5 minutes. The running data of the system can be visualised in easy to understand colour graphics. 3rd party fan coils can be controlled and running costs of the Yutaki can be checked and compared to ensure Yutaki systems are running as efficiently as they can.

LEVERAGE SMART HOME TECHNOLOGY

From basic dial systems to multizone smart devices, clients can control their room temperature with thermostats of varying degrees of sophistication. Fully leverage custom temperature management with our comprehensive range of thermostats. Ideal for both new builds and renovation projects, PIPELIFE thermostats offer cutting-edge smart home solutions, including multizone control, virtual assistant compatibility and cloud-based machine learning for carefree comfort with maximized energy efficiency.



STANDARD

We offer both basic dial and LED screen thermostats for sleek and simple options that provide homeowners with standard on/off temperature control.

ADVANCED

Our user-friendly digital thermostats are highly accurate, programmable to custom routines, and regulate both heating and cooling systems. We also offer wireless alternatives for thermostat extensions and relocations.

SMART CONTROL

Our smart thermostats offer comprehensive and remote temperature control from our Apple- and Android-compatible smartphone application. They can also be paired with smart home setups, such as Amazon Echo, Apple HomeKit and Google Home, for virtual assistant integration, and use geolocation and machine learning to provide the optimal user experience.





UNDERFLOOR HEATING

Pipelife Eco is Ireland's leading designer and supplier of thousands of Underfloor Heating Systems each year. The Pipelife team works with everyone from homeowners, contractors, architects & consulting engineers across the country in projects ranging from residential homes, hospitals, nursing homes, to warehouses and car showrooms.

So, why choose Underfloor Heating?

Underfloor Heating is one of the most critical items that you will put into your home. Underfloor heating is a very clean and simple form of heating, ideally suited to today's well-insulated, low-energy and airtight buildings.

Most of the system will be buried in your floor foundations for your home's lifetime. It is critical that the components used are top quality and fully backed by reputable manufacturers. Pipelife offers a 50 year guarantee on our Qual-Pex Plus+ 'Easy-Lay' Multilayer Pipe.

Underfloor heating works in a very similar way to central heating radiator systems in that water is heated up by oil or gas fired boilers and that hot water is supplied to the rooms in your home. The essential differences are that the water does not need to be heated to higher temperatures, and instead of being distributed to radiators, the hot water is distributed through long lengths of heating pipe that are buried in the concrete in your floor. The hot water running through these pipes heats up the concrete floor and the floor itself becomes a big 'radiator' and heats your rooms.

Underfloor heating has the effect of heating the entire floor throughout leaving it warm to the touch resulting in even heat distribution. It is a proven fact that gentle heat radiated at floor level provides the optimum heating temperature profile for the human body.

With radiator systems, some of the heat is immediately wasted as it rises to the ceiling. With an underfloor heating system, the heat is concentrated at floor level where it is most needed. In rooms with large areas, underfloor heating is the only way to heat the centre of the room effectively and uniformly.

The major benefits of an underfloor heating system is that it provides a comfortable even temperature throughout your home offering a healthier environment with less dust being circulated, high fuel efficiencies and no restrictions on interior design layout.

Underfloor Heating is easy to install, requires low maintenance and is very cost effective to run. An underfloor heating system creates an even temperature, comfortable environment with no hot or cold draughts, just a gentle feeling of warmth throughout your home.



ENERGY EFFICIENT ALUMINIUM RADIATORS

What are they and how do they work?

Designed for low water temperature operation - these new Low Temperature radiators are ideal for use with heat pump technology and can be used alongside underfloor heating in a split system. For example, Underfloor Heating on the ground floor and Low Temperature Radiators on your first floor.

The low water temperature means increased efficiencies, reduced heat pump operation, rapid heat up times, and less water volume, ensuring your room heats up and stays warm longer! The innovative aesthetic shape of the radiator arises from the need of improving hot air flow, in order to increase thermal efficiency.

The new curved front baffles make an easier release of hot air from the three windows and facilitate their transition into the hottest part of the radiator.

- The rounded profile on the top, with two openings, gives a modern and captivating style to the radiator and maximizes the heat exchange.
- Ideal for low-temperature heating systems;
- Excellent weight/power ratio, which facilitates transport, handling and installation.
- Unalterable over time thanks to its double coating: anaphoresis and powder coating;
- Openings at the rear of the radiator to increase convective heat exchange.
- Modular: perfect for any space;
- Maximum working pressure: 16 bar.
- Pressure test (undergone by 100% of manufactured products): 24 bar;
- Low water content, greater heat exchange, low thermal inertia = outstanding performances, low power consumption;
- 10-years warranty.





THE HEATING SYSTEM PIPELIFE ECO RECOMMENDS

Pipelife Eco has been designing and supplying home heating solutions in Ireland for over 25 years. Many technological advances have been incorporated over that period and the solution we offer today represents the optimum modern home heating solution specifically designed for Irish climatic conditions.

For the very best results Pipelife ECO strongly recommends a solution using an Air to Water Heat Pump coupled with Underfloor heating.

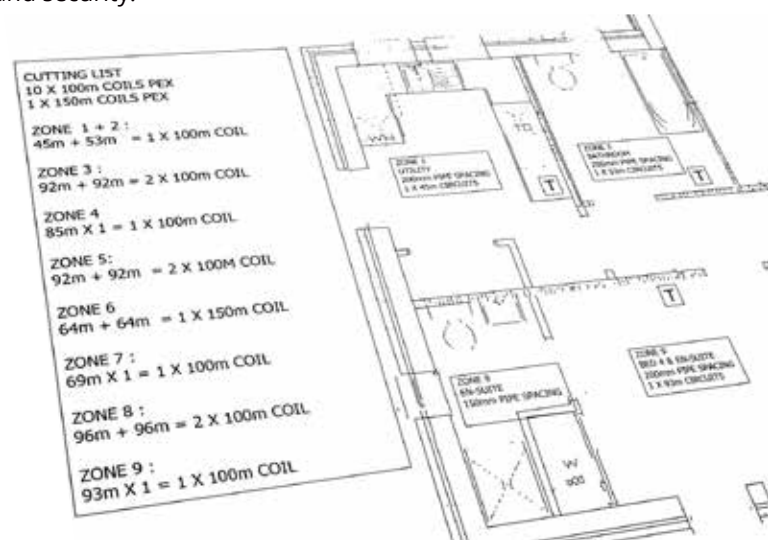
An underfloor system heating circulates low temperature water. Most conventional heating systems circulate higher temperature water, usually between 50°C to 80°C whereas an underfloor heating system circulates water between 25°C to 40°C.

An Air to Water heat pump is the most modern and efficient way of generating this low temperature supply of water. A heat pump is the most efficient way of heating your home and your domestic hot water requirements for Irish climatic conditions.

An underfloor heating system coupled with an Air to water heat pump thus provides the best solution for heating your home giving you low running costs, maximum comfort and control, and low CO2 emissions. In many cases a combination of Underfloor heating downstairs and low temperature radiators upstairs also offers an excellent compromise between comfort and costs.

From our experience this arrangement gives the optimum result in terms of up-front costs, installation ease, running cost optimisation, maintenance and maximum control and comfort in your home.

Our design engineers will advise at planning stage which of these options is best suited to your home. At Pipelife ECO we passionately believe we can offer you the best in terms of quality, service, professionalism, comfort and security.



HOW IS MY HEATING SYSTEM DESIGNED?

The Plan

To start, once an architectural plan has been drafted a free Heating Solution quotation can be obtained by simply forwarding your plans to the Renewables Department at Pipelife. ireland@pipelife.com

Your quotation will be handled by one of our Design Engineers who will contact you to confirm receiving the plans and discuss your specific customer needs. Our in-house engineers will produce detailed plans for the Heating Solution specific to your home. We will be happy to develop a bespoke, detailed heating solution quote for your particular home. We offer free estimates, free CAD design and technical support. These include full heat loss calculations, energy saving estimates, plus a complete product and accessory specification

The Quote

Your heating solution quote will include the recommended system for your home, in this case an Air to Water Heat Pump and Underfloor Heating, a breakdown of all components required and a price for each solution.

The Design

Our design package will calculate the heat requirements for your home to achieve maximum efficiency for you. To start, our engineer will divide the requested floor area of your home into a number of different zones. Zone's are normally individual rooms in your home where the individual room temperature can be set with its own control.

Next the ideal location for a distribution manifold is identified in a central position close to all zones. From these calculations the design engineer will produce a series of tables containing key information which will be used during the installation process.

A quotation sheet will also be produced outlining the price of materials, the number of zoned areas and size of heat pump required. If you are happy to proceed with the order, the design engineer handling the quotation will produce a pipe layout drawing showing the configuration of each zone and their relative position to the manifold.

The Finer Details

A full design specification, both mechanical and electrical is then produced detailing the design criteria and guidelines from the initial process of laying of the underfloor heating pipe, through to the second stage of connecting these pipes to the plumbing system, commissioning of the system and heating controls layout. The design is always project specific and each design is tailored to suit your requirements.

Our Guarantee

Because we design every system to your unique home design, we guarantee our system will operate as designed. For your added confidence and peace of mind we carry full design indemnity insurance that makes us responsible if the installed system fails to meet the designed outputs. (terms & conditions apply*)

SO, WHAT DOES THIS MEAN FOR YOU?

So the choices available to you to heat your home and provide you with hot water remain wide. Deciding on the right choice depends very much on your property type, your priorities and your personal preferences. If you are building your own new property the following is the heating solution that Pipelife Eco Home Heating Solutions would advise:

An air-to-water heat pump with Underfloor heating throughout the building with the option of low temperature radiators upstairs.

From our experience this arrangement gives the optimum result in terms of up-front costs, installation ease, running cost optimisation, maintenance and maximum control and comfort in your home.

Chat to our team of specialist engineers today and find out how we can help make your project a success.

What we can offer You -

- Bespoke systems
- Integrated systems
- Stand alone systems
- Technical Know How
- 50 Years Manufacturing Experience
- Backup Service
- Irish Company - Proud member of Guaranteed Irish
- Unrivalled expertise
- Commitment to YOU
- Peace of mind
- Latest Technology used
- Professional Design Indemnity Insurance
- In-House specialist design software

Pipelife Eco -
Our Reputation,
Your Peace of Mind.

COMPARING QUOTES

When comparing quotations from multiple heating solutions providers it is important that you remember the following, as the price quoted in many cases can mask many future problems shortcomings.

Not all heating systems are equal. There are four very common ways in which heating solution providers can reduce the purchase costs of their systems thus making them look more competitive but these reduced upfront costs get passed onto you, the home owner in the form of much higher heating bills and reduced life time of your heating system.

1. The Heat Pump

Heat Pumps come in many shapes and sizes from a multitude of manufacturers. What is vital is that the heat pump chosen is manufactured to suit the climatic conditions prevailing in Ireland, that it is manufactured by a reputable company with a stellar reputation for quality and service, and that the size (power output) of the heat pump is sufficient to heat the required volume of water to supply your home optimally.

Using an undersized heat pump is unfortunately an all too regular occurrence in the Irish heating market. The advantage for the provider is being able to quote you a 'cheaper' solution. An undersize heat pump will struggle to heat your property, at best, to the required temperature. It can only do so by burning up a lot of extra fuel thus pushing your heating bills way up past what you will be expecting. An undersized heat pump will also burn out many years before expected as its motors and parts will be running at very high levels of stress to compensate for its smaller size.

It is important to note that in most cases you will have no recourse in such an eventuality unless the provider of your heating solution has given you a written guarantee of performance, and this is rarely the case.

2. Quality & layout of the underfloor heating pipes.

The second way in which companies can provide you with a 'cheaper' quotation is to use cheaper imported pipes and/or to reduce the quantity of pipe in the design thus lowering their overall costs.

The quality and the design layout of the pipe used are the most important elements in your heating solution for your home.

To reduce the cost of a system many providers reduce the quantity of pipe that will be buried in your concrete floor. In a properly designed system the spacing of the pipe is carefully planned to ensure enough low temperature water flows through each room to reach the desired heat output.

If this pipe spacing is increased, less pipe is buried in your rooms and thus less low temperature water flows through, resulting in lower heat outputs than required to reach the necessary room temperatures.

The heat output in these circumstances can only be reached by pumping much higher temperature water through the pipes which will result in much higher heating bills that you would otherwise pay for a well designed solution.

The underfloor heating pipe is physically buried within the concrete floor of your home and thus inaccessible. If it is laid incorrectly, if it is of inferior quality and fails, or if the layout of the pipe is poorly designed then the associated problems can be massively expensive and disruptive to fix.

Buried pipe can only be fixed/replaced by digging up your floors. The pipe buried in your floors should have an operational life expectancy of at least 50 years so ensuring the pipe is from a reputable source is paramount.

Pipelife is the only provider of underfloor heating in Ireland who manufactures its own pipe in Ireland, in contrast with others who import pipe from multiple sources in many countries as far afield as China and Iran. Pipelife's Guaranteed Irish "Qual-PEX" pipe is Ireland's leading heating pipe and has been manufactured by Pipelife in Cork for the last 30 years, with over 1bn metres of Qual-PEX sold in that period.



3. Undersized radiators

Undersizing radiators in a heating solution is again an all too common occurrence. While smaller radiators reduce the purchase cost of the system, using undersized radiators place's huge extra demands on your heat pump to compensate. These radiators will need to be heated to a far higher temperature to achieve the desired heat output than properly sized radiators thus pushing your heating bills far higher than expected.

Ultimately an undersized heat pump or undersized radiators can be replaced, albeit at major expense, as they are above ground and are accessible. The heating pipe though is far more costly and problematic to 'fix' or replace as it is buried in the floor of your home. Replacing the pipe would entail your entire home being vacated, all the furnishings being moved out, your carpets, wooden floors and tiled floors being removed, and your entire concrete floor being dug up and replaced after the pipe has been replaced.

PIPELIFE IS 100% COMMITTED TO THE CORRECT DESIGN, SIZING AND INSTALLATION OF YOUR HOME HEATING SOLUTION.

OUR REPUTATION IS BUILT ON 50 YEARS OF MANUFACTURING HISTORY IN IRELAND AND THIS REPUTATION MATTERS IMMENSELY TO US.

4. Reduced control of your system

A well designed heating solution will give you maximum control to vary the level of heat you wish to have in each room of your home. This level of control is achieved by placing individual thermostatic controls in each room. These thermostats allow you to set the temperature you want for each room individually. This system will allow you to easily control, individual rooms to different temperatures at different times.

To reduce costs many providers reduce the amount of thermostats in their designs, sometimes only offering one for downstairs and one for upstairs. This means you can only set an overall temperature per floor rather than choosing your preferred temperature per room. Having only one temperature setting per floor will increase your heating bills and reduce your comfort. The result being some rooms overheating and some rooms under-heating as well as the heat source having to work harder.

Pipelife is 100% committed to the correct design, sizing and installation of your home heating solution. Our reputation is built on 50 years of manufacturing history in Ireland and this reputation matters immensely to us. As heating solutions have become more complex we have continually invested in new expertise and technology to ensure we stay to the forefront of this evolution.

Every Pipelife home heating solution is fully designed in-house by our experienced design engineering department and is supported by our extensive field service support/engineering team. All our solutions come complete with detailed design drawings, top quality components and an unrivalled expertise built up over many decades.

We provide full design indemnity insurance on all our heating solution systems so you can rest assured our system will deliver on what we promise, providing you with a home heating solution you can rely on for decades to come, safe in the knowledge we will always be there to support you if the need ever arises.

Our Reputation – Your peace of mind



GENERAL FAQ'S

What is the best heating solution for my home?

The best heating system for your home is an Air to Water Heat Pump, combined with underfloor heating on the ground floor and either underfloor heating or radiators on the first floor. Underfloor heating on the first floor would be preferred if the first floor is of concreted floor construction. If the first floor is not of concrete construction and is of timber construction, fitting radiators would be preferred as the installation of underfloor heating would be expensive to install.

What are the advantages of Underfloor Heating?

- Comfortable even temperature throughout
- Efficient on fuel due to lower operating temperatures
- Healthier environment with less dust being circulated
- Safer—no hot panels or dangerous hard edge's
- No restrictions on interior design layout
- Low maintenance
- Maximum usable floor spaces
- Excellent value for money
- Independent temperature control for all rooms.
- Lower CO₂ emissions

What is Pipelife's guarantee on the heating solution?

This is a very good question. Underfloor heating includes a series of pipes buried in the concrete floor of your house. If there is any issue with the pipe in the future, it will be very expensive to locate and repair. Pipelife manufacture the pipe in Cork and the pipe is guaranteed for 50 years.

Pipelife warranties include:

- Pipe 50 Years.
- Heat Pump 5 years.
- Electrical components 5 years.
- Manifolds 5 years.
- Pipelife Heating systems are all fully covered by third party Design Indemnity Insurance.

Why would I choose Pipelife over anyone else?

Pipelife has been manufacturing and supplying heating systems in Ireland for 50 years. Pipelife manufactured pipe carries a 50 year warranty giving you peace of mind that the pipes buried in your floor are the best quality available. Pipelife offer full design indemnity insurance on all systems. All systems are very user friendly. We commission every full system supplied. A full system comprises of Heat Pump, Underfloor heating and or radiators plus all associated components and controls. We have engineers throughout the country to cover after sales service. We pride ourselves in our after sales service.

How can I avoid long term problems with my system?

There are many components in a heating system. There are also many different quality components. When poor quality components are used, this is when things can go wrong. Most of the components can be replaced easily as these are accessible. What is not easily accessible are the pipes under your floor. There have been lots of horror stories in the industry that have not reached the public domain with regard to substandard pipe. There are documented instances of people having to move out of their house to accommodate removal off all floors in the house to replace pipes that have prematurely failed after a number of years. The pipes began to leak after a number of years, only for the homeowner to find out that the warranty of the pipes has expired, and they would incur the very expensive cost of replacement. Insurance companies will not cover costs on uncertified pipe. Insisting on full design insurance, high quality components with long warranties, and reputable suppliers will ensure that you will not incur costs in the event of any issues that may arise. As the pipe will be buried within your floor structure, you should insist on a 50-year warranty on the pipe used. Do not take the word of a Sales Rep, please insist on documented evidence.

How much is an underfloor heating system?

An approximate rule of thumb is €16/per square meter of floor. Please use above only as a guide. To receive an accurate, detailed quotation, please send a set of drawings to Pipelife. We will return a full detailed quotation, outlining the best options available to you.

Where does the hot water for my showers come from?

The Pipelife heating system will cater for the entire heating needs of the house. This includes the hot water demand. The Pipelife Heat Pump will supply plenty of hot water to meet the requirements of the occupants of the house.

Where can I go to see a Pipelife System?

Pipelife have our heating system displayed in our premises in both Cork and Dublin. You are more than welcome to make an appointment to come visit where one of our Engineers will go through the system with you, and answer any questions you may have. Feel free to bring a set of drawings for your house and we can go through the system that suits you best. To make an appointment simply call us on 021-4884700

How do we buy your system?

A Pipelife heating system can be purchased through your local hardware store giving the peace of mind that you are buying locally. We can also offer a fully designed & installed system either through your local plumber or one of our partners throughout the country. Pipelife have Certified Installers throughout the country and we would be more than happy to put you in contact. You can also contact Pipelife directly on 021-4884700.

I keep hearing about Part L building regulations, what is that?

Part L is one of many Building Regulations that your house will have to meet on completion. Part L relates to heating and hot water. This is a very detailed document that your Builder, Plumber, Heating Designer will have to follow to meet the minimum requirements and to make sure your heating system is up to building regulations.

The Part L document of current building regulations sets out maximum energy usage and carbon emission levels for the dwellings. It also states that all new buildings must incorporate some form of renewable energy technology to help reduce the use of fossil fuels to heat the dwelling or to reduce the primary electricity usage. The most popular renewable energy sources used are heat pumps for heating and hot water.

What is Commissioning?

Commissioning is where a Pipelife Engineer will call out to the house after the installation is complete. (Full Heat system Installation, Heat Pump, Underfloor Heating and or Radiators) The engineer will carry out a number of checks to insure that the system is installed correctly. There are parameters set on the heat pump that are tailored the needs of the house. The heating is then turned on for the first time. The engineer will go through the workings of the heating system with the end user and discuss how to use the system most efficiently.

Why can quotes from different suppliers vary so much?

Heating systems that use Heat Pumps & Underfloor Heating can vary widely in price. 'Cheap' options are available from various suppliers. This is only done by compromising on something. Whether it be quality, quantity or service. There are lots of ways of reducing the price offered. The most common trick is reducing the quantity of components. For example, the quantity of pipe and controls. We would suggest you ask all potential suppliers for a detailed list of quantities, on every quotation. Remember, your heating system should last for many years. You need to know exactly what you are getting. Study and compare all quotations. Make sure that the quantities of all the components are the same. One item less may affect the price but it will also effect the running costs of your system as well as the level of comfort in your house. Insist on warranties of 50 years on the pipe and at least 5 years on all other components. Another trick that is used widely is reducing the size of the heat pump. An under sized heat pump will cause nothing but problems in the future. An under sized heat pump will have to work harder all year round resulting in expensive running costs as well as burn out. Burn out consists of the heat pump burning out and requiring a complete replacement. This is a very expensive and avoidable exercise. It has been found that under sizing a heat pump will result in burn out between 4 to 6 years. Just when your warranty has expired. Leaving you with an unexpected very large expense.

HEAT PUMP FAQ'S

What is a Heat Pump & why should I use one?

An air to water heat pump collects the heat from the outside air and through a refrigeration cycle, generates heat for our homes. There is liquid in the heat pump which will boil at -40 degrees Celsius. (Water boils at 100 degrees Celsius). This liquid changes into a gas when boiled. This gas is compressed. When you compress a gas, the temperature of the gas increases which is then used to heat our homes and hot water for our showers. Heat Pumps have gained in popularity since the changes to building regulations in 2011. There are many reasons for this. Heat pumps meet all current and future NZEB (Near Zero Energy Building 2020) regulations, and they are also the most economical way of heating your house as well as reducing CO2 emissions. By fitting a heat pump you are future proofing your home as fossil fuel options such as oil & gas boilers will be soon banned by the government.

Can I substitute my existing oil or gas boiler with a heat pump?

Yes, It would be a good idea to get technical advice on what heat pump best suits your house before you carry out any work.

Can I fit a heat pump to my existing heating system?

Yes, you can. There are grants available through Sustainable Energy Agency Ireland to supplement the cost of the install. For more information: <https://www.seai.ie/grants/home-energygrants/heat-pump-systems/>.

Heat Pumps and underfloor heating also work perfectly in extensions.

How does an Air to Water Heat Pump save you Money?

An air to water heat pump works more efficiently than a traditional fossil-fuel boiler, generating 3kW of usable heat for every 1kW of electricity used. Talk about a good investment!

How much is a Heat Pump?

This depends on the size of your house and the level of control you require. Below is only a rough guide.

- House size 50Msq – 100Msq = € 4,500 plus vat.
- House size 100Msq – 130Msq = € 4,900 plus vat.
- House size 130Msq – 150Msq = € 5,250 plus vat.
- House size 150Msq – 220Msq = € 6,500 plus vat.
- House size 220Msq – 280Msq = € 6,850 plus vat.
- House size 280Msq – 350Msq = € 7,300 plus vat.

Please use above only as a guide. To receive an accurate, detailed quotation, please send a set of drawings to Pipelife. We will return a full detailed quotation, outlining the best options available to you.

Why is an Air to Water Heat Pump environmentally friendly?

An air to water heat pump produces no direct CO2 emissions, so you personally contribute to a better environment. The pump does use electricity, but even without renewable electricity the CO2 emissions are still much lower than boilers that use fossil fuels.

What is the difference in heat pumps (mono V Split)?

A Monobloc heat pump, is a single unit heat pump located outside your home. It heats your water outside the dwelling and sends in the warm water to heat your home. These monobloc heat pumps would be slightly cheaper to buy and install. However, the big drawback is that you are heating your water outside the house which, in winter, the heat pump will have to work harder and therefore will be more expensive to run as the water may cool down before it enters your house.

A Split heat pump works differently to a monobloc heat pump mentioned above. A split heat pump, has the condenser (this collects the heat from the air) and sends in the heated gas (not water) into your house to what we call the indoor unit. (This is where the hot gas heats your water). The indoor unit also houses your hot water cylinder (water for your showers and taps). As all the heated water is contained within the building, the split systems would be considered cheaper to run.

What is the outdoor unit?

An outdoor unit is called the condenser. This primarily collects the heat from the air which boils the gas within the unit. This heated gas in turn, heats the water that is heating your house as well as the water for your showers.

What is an indoor unit?

An indoor unit is a pre plumbed unit (easy for your Plumber to install) which also houses your hot water tank. This comes in white panels and look like a fridge. (Insert link to photo)

Where does the indoor unit go?

The indoor unit can be located anywhere within your house. This is in place of your conventional copper cylinder in your hot press. It is designed to look like a tall fridge and will blend in nicely with kitchen units or utility units. (Insert link to photo).

Where does the outdoor unit go?

The outdoor unit can be located anywhere outside your building. However, it is best practice to keep it as close to the building if possible. This will reduce the length of gas pipes that will be needed to run.

UNDERFLOOR FAQS

How does underfloor heating work?

Underfloor Heating consists of a lot of water pipes under your floor. Your heating source (boiler or heat pump) will heat the water in these pipes which in turn will heat your floor to a nice uniformed comfortable temperature. The warm floor will heat your room.

Is Underfloor Heating More Expensive Than Radiators to Install?

The initial investment is normally higher than a traditional radiator system but the end result is lower running costs, a better form of comfort, as well as improved control and a hidden heating system. The installation of underfloor heating is approx. 10% more expensive to install. Underfloor heating running costs will be reduced as the heating system runs at lower temperatures.

Is a Pipelife heating system complicated to install?

No. All Pipelife underfloor heating systems are relatively easy to install. Simply follow our AutoCAD design drawing for the pipe patterns and loop lengths. A full design specification goes out with each project detailing zone layouts, commissioning details, system setup and operation and of course all mechanical and electrical diagrams and data sheets.

Pipelife provide a detailed design specification with full pipe layout drawings as well as electrical wiring drawings. These drawings & installer instructions are very simple to follow which can be passed onto your local installer to install. If you would prefer, Pipelife, can organise and project manage the install right through to commissioning stage.

Can I set the temperature in each room individually?

Yes. In Pipelife Designs, Individual room thermostats are supplied for each room allowing you to have a completely independent time and temperature control system. Pipelife can tailor the level of control to the needs of the user. Whether it be a simple dial room thermostat or a digital room thermostat that you can also control through your phone and/or tablet. Other companies may reduce the level of control and thus reduce your comfort.

What is the maximum area that can be covered?

There is no maximum area that can be covered. The possibilities are endless.

Can the underfloor heating system be run from my existing radiator system?

You can add underfloor heating to your existing heating system and many people do when refurbishing and/or adding extensions to their houses. As the underfloor heating system works on lower temperatures slight alterations to your heating system will have to be carried out by your plumber.

What is the water flow temperature?

The ideal temperature setting is 40 degrees and should be set to ensure that the floor surface temperature should never exceed 29°C. Above this temperature could cause cracking in the floor.

What are the best types of floor finishes to suit underfloor heating?

Tile, carpet and timber are all suitable floor coverings. There are a few design considerations to be adhered to :

- Tile: Use adhesive suitable for underfloor heating
- Timber: Use timber that has been kiln dried to approx 8%.
- Carpet: Always use a good quality thin carpet and a good quality underlay.
- Always consult your flooring provider before you lay a finished floor on top. They will provide you with the best advice on choosing a floor covering most suitable for underfloor heating

Are we confined to just underfloor heating?

Not at all. You can incorporate underfloor heating with a radiator system.

Can I install underfloor heating upstairs?

Yes, underfloor heating can be fitted upstairs.

If I go with underfloor heating down stairs, must I use under - floor heating upstairs?

You are not confined to underfloor heating up stairs. You can have conventional radiators upstairs.

What is a screed?

A screed is a layer of concrete that covers the underfloor heating pipes and becomes the floor of your house.

Can I install underfloor heating in my existing house?

Generally, yes you can. It would be prudent to get some technical advice before you carry out any work.

If I am digging out my floors, how deep must I go to allow for everything? Retrofit?

You would require approximately 200mm to allow for your new floor insulation, pipes and new concrete floor.

ONE SOLUTION, ONE SUPPLIER

We provide an all-encompassing, customized service to ensure your system installation is hassle-free — adding value, not stress.

With PIPELIFE, you collaborate with one supplier from conception and layout design through to installation. Whether you're starting from scratch or planning to retrofit, we'll find the optimal solution for your individual project requirements, saving you time and money every step of the way.





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MAKE YOURSELF AT HOME WITH MIDEA HEAT PUMPS

Make the greener choice for your home, upgrade your existing central heating with an eco-friendly, low noise Midea Heat Pump. Air source heat pumps are the low-carbon future of home heating which integrates heating and domestic hot water into one system. The future of heating, renewable energy is the greener, cleaner way to heat your home. Midea's air source heat pumps are the cost-effective way to lower your energy bills and switch to a low-carbon way of heating your home. Make yourself at home and start saving with Midea Heat Pumps.

Discover Easy-Comfort with our New Midea Monobloc Heat Pump which comes with a Market Leading 10 Year Warranty! Another Plus+ Advantage from Pipelife!



CREATE SUSTAINABLE VALUE

To help you meet the rising demand for sustainable buildings, we're developing energy-efficient solutions compatible with alternative sources of energy.

Beyond this, we're striving to optimize our processes throughout the value chain and maximize the service life of our products while ensuring they can be recycled or reused at the end of their lifecycle.

ECOLOGICAL CHOICES WITH EPDS

Environmental Product Declarations contain standardized third-party verified data about the environmental impacts of products across their entire lifecycle. PIPELIFE has started working on the digitization of EPDs so you can easily compare the environmental impact of products from various suppliers.

ENERGY EFFICIENCY

Hydronic heating and cooling solutions are the energy-efficient alternative to traditional temperature management systems and are pertinent to achieving EU ambitions of a fully decarbonized building stock by 2050. Hydronic solutions can also be combined with various forms of alternative and renewable energy, including district heating and cooling as well as ground source and solar power systems. We are also making huge strides in the energy efficiency of our processes by reusing production off-heat, installing photovoltaic systems and utilizing closed cooling circuits.

BIODIVERSITY

Our contribution to preserving nature does not stop with the reduction of our CO₂ emissions or increasing our use of recycled materials. As part of the World of Wienerberger, PIPELIFE is working towards self-imposed Environmental, Social and Corporate Governance Goals. Accordingly, biodiversity measures are implemented at all our plants to encourage flora and fauna to flourish around our production sites.

REDUCED WASTE

As well as reusing scrap wherever suitable in our production processes, our prefab designs ensure your on-site waste is kept to the absolute minimum and can be seamlessly installed without the need for extra fittings, labor or energy.

MEASURING AND IMPROVING EFFICIENCY

We deploy industry 4.0 technologies to measure and reduce our energy and raw material consumption, as well as their related CO₂ emissions. Quality management systems and environmental measures are implemented at all PIPELIFE production sites, meeting national as well as international standards such as ISO 9001 (Quality Management System) and ISO 14001 standards (Environmental Management System).

An aerial photograph of a residential complex. The image shows several multi-story apartment buildings with grey roofs and brick accents. The buildings are interspersed with lush green trees and manicured lawns. A central paved road winds through the complex, with several cars parked along its sides. In the foreground, there are large parking lots filled with cars. The overall scene is well-maintained and green, illustrating a focus on ecological and economical solutions in urban development.

EMBRACE ECONOMICAL AND ECOLOGICAL SOLUTIONS

The efficiencies of hydronic systems not only help lower household energy bills, but they can also be fundamental in reducing the carbon footprint of your building — aligning with the EU taxonomy and raising the value of your property.

ENERGY-EFFICIENT COMFORT

Hydronic systems utilize radiant heating and cooling to achieve desired comfort levels at lower ambient temperatures than radiators or forced-air systems. Since this requires less energy, the cost to both you and the environment is reduced.

GREEN ENERGY COMPATIBILITY

Similarly, the low temperatures and operating pressures of hydronic systems enable compatibility with sustainable energy systems, such as heat pumps. These are significantly better for the environment, and, with the declining cost of renewable energy, can further increase monthly savings too.

SMART SAVINGS

By taking advantage of our smart thermostats and systems, you can ensure your setup is optimized to work for your comfort and nothing more. Set ambient temperatures according to the preferences and routines of the people you live with and eliminate unnecessary energy use.

SUSTAINABLE VALUE

PIPELIFE hydronic systems are expertly produced from the highest quality materials to ensure robust longevity. All of our hydronic products have a lifespan of 50 years with minimal maintenance. Make a one-off investment in a more efficient heating and cooling solution and enjoy long-term savings from a system that is built to last.



28 manufacturing facilities across 24 countries and growing.

We are one of the world's leading providers of plastic pipe and heating solutions and we provide current and future generations around the world with safe, healthy and carefree living.

PIPELIFE IRELAND SOLUTIONS LIMITED

Little Island, Cork, T45 TX05

Unit 1B Damastown Way, Mulhuddart, Dublin 15. D15NN0F

T +353 21 488 4700 E Ireland@pipelife.com pipelife.ie

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