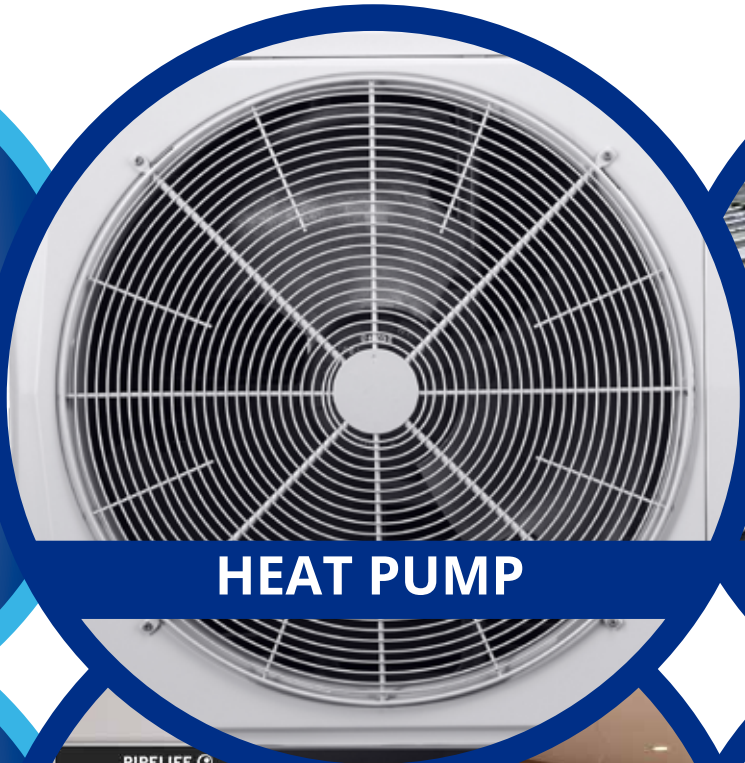
PIPELIFE

RENEWABLE BROCHURE



HEAT PUMP

UNDERFLOOR

CONTROLS

TRAINING

WWW.PIPELIFE.IE

PIPELIFE IRELAND SOLUTIONS LIMITED
Little Island, Cork, T45 TX05
Unit 1B Damastown Way, Mulhuddart, Dublin 15. D15NN0F
T +353 21 488 4700 / +353 21 451 0600 **E** Ireland@pipelife.com
Discover our full product range at **pipelife.ie**

PIPELIFE
always part of your life

ABOUT PIPELIFE

50 YEARS OF PROUD IRISH MANUFACTURING & SERVING THE IRISH PLUMBING & HEATING INDUSTRY

Pipelife is Ireland's leading manufacturer and provider of plastic piping systems. Specialising in the extrusion of polyethylene (PE) pipes, Pipelife offers industry leading products for the heating & plumbing, water pressure, electricity, cable ducting, gas and agricultural sectors.

Drawing on 50 years of manufacturing experience from our production plant in Cork, Pipelife has been to the forefront in developing innovative products, and has been an industry leader for many years. Quality and innovation continue to be the terms that define our philosophy and this is reflected in the range of products and systems that we manufacture to this day.

As well as being a leading edge manufacturer (ISO 9001 2015) of pipe for the Plumbing and Heating Industry, Pipelife has developed a true expertise in the design of heating systems to maximize the potential of Qual-PEX pipe.

Many systems are straight-forward and are simply adapted from traditional metal pipe plumbing systems, but new methods of heating buildings are now being opened up with the use of thermoplastic pipe in applications such as wall heating, ceiling heating and most especially Underfloor Heating.

The experience and expertise of our Renewables Department coupled with the security of our design indemnity insurance, top quality materials, and comprehensive before and after sales technical support ensures that we continue to offer an industry leading service. Selling exclusively through merchants our service is tailored to making the supply of renewable products & services easy, professional and painless.

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.

WHAT WE CAN OFFER YOU

BESPOKE SYSTEMS	INTEGRATED SYSTEMS	STANDALONE SYSTEMS	TECHNICAL KNOW HOW
20 + YEARS EXPERIENCE	UNRIVALLED EXPERIENCE	BACKUP SERVICE	IRISH COMPANY
LATEST TECHNOLOGY	IN-HOUSE SPECIAL DESIGN SOFTWARE	COMMITMENT TO YOU	PEACE OF MIND

PIPELIFE 50 YEARS OF PROUD IRISH MANUFACTURING 1970-2020

50 YEAR GUARANTEE

Guaranteed Irish

OUR PRODUCTS- YOUR BENEFITS

PIPELIFE 50 YEARS OF PROUD IRISH MANUFACTURING 1970-2020

50 YEAR GUARANTEE

Guaranteed Irish

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. Get the Plus+ Advantage.

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 thus giving our customers peace of mind that when they choose Pipelife they choose quality products, reliable systems and an after sales commitment that other operators cannot compete with. For more information and to talk to our team call us on 021 488 4700 or e-mail us at ireland@pipelife.com

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

TRAINING ACADEMY

TO BOOK YOUR PLACE -
CALL 021 488 4700
E-MAIL – IRELAND@PIPELIFE.COM




TRAINING AVAILABLE FOR –

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

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

ENGINEERS IRELAND
REGISTERED TRAINING PROVIDER 2024

PIPELIFE IRELAND Solutions Limited, Little Island, Cork
1B Damastown Way, Mulhuddart, Dublin 15
T 021 4884700 / 021 4510600 E ireland@pipelife.com , **pipelife.ie**

PIPELIFE
always part of your life

COMPLETE PACKAGE SOLUTIONS

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, final commissioning and technical support, allowing you to purchase with confidence.

Multiple Package Solutions Design Service

Designing and building a new home, apartment block or offices? Then look no further than Pipelife for your full heating solution! To meet building standards compliance and other requirements, we offer a free of charge Heating Design Service. With a diverse product portfolio all the heating requirements for a property can be met under one roof.

Pipelife is 100% committed to the correct design, sizing and installation of our 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.

With our fully qualified and dedicated team, who can work directly with the homeowner, the architect, engineer or specifier designing the property / heating system to ensure this is a hassle-free process and saves valuable time on the project.

1. Heat Loss Calculations –
Our Engineering Team carry out room by room heat loss calculations in line with SR:50 requirements. This information provides the heat load requirement for each room and helps to prove compliance with Part L of the building regulations and calculate the heat pump output, the hot water demands and underfloor heating and/or radiators for the property. If further information is needed, a member of the Pipelife Renewable Team will contact you as required.

2. Sizing of the Heat Pump –
Once heat loss calculations are finalised and the heat load for each room within the property is known, a correctly sized Air to Water Heat Pump is specified.

3. Quotations -
A detailed quotation will be provided including a list of materials. The price will include a breakdown of the required sized air to water heat pump, underfloor heating and/or aluminium radiators if required and smart control system and any other plumbing accessories.

4. Ensuring Compliance –
We ensure compliance on all heating requirements for your heating solution. Our team works with BER assessors to ensure future compliance and Building Energy Rating (BER) certification for the property that complies with Part L of the Building Regulations. Compliance includes, Carbon Performance Coefficient (CPC), Energy Performance Coefficient (EPC) and that the property meets a specific Renewable Contribution.

5. Commissioning Your System –
As part of our service Pipelife commission all our air to water heat pump on site by one of our technical engineers at no extra charge. The installer will contact Pipelife to arrange this and agree a suitable date and time. This process will ensure that the unit is installed correctly, set up to match the requirements of the building as well as showing the client how to operate the system controls.

6. Aftercare Service –
A full aftercare service is provided by the nationwide Pipelife Technical Support Team. Should any spare parts be required at any time, these can be supplied promptly to the local installer. The Engineering Team at Pipelife is also available for any other information you may require.

What we can offer you

BESPOKE SYSTEMS	INTEGRATED SYSTEMS	STANDALONE SYSTEMS	TECHNICAL KNOW HOW
20 + YEARS EXPERIENCE	UNRIVALLED EXPERIENCE	BACKUP SERVICE	IRISH COMPANY
LATEST TECHNOLOGY	IN-HOUSE SPECIAL DESIGN SOFTWARE	COMMITMENT TO YOU	PEACE OF MIND

MIDEA HEAT PUMPS

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.

10 YEARS
MIDEA
10 YEAR WARRANTY

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 35D dB(A) sound pressure level at 3 metres.

• PEACE OF MIND

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

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	14kW	1385	945	453	4.49	3.59	146 Kg	R32

Specifications

M Thermal Mono

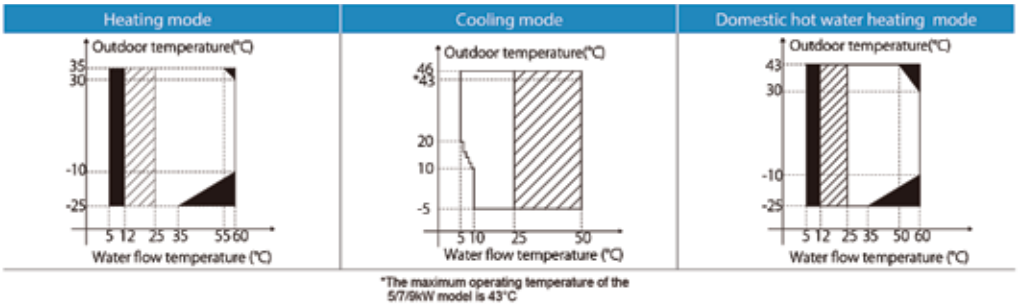
Model name MHC-			V5W/D2N8	V7W/D2N8	V9W/D2N8	V12W/D2N8	V14W/D2N8	V16W/D2N8	V12W/D2RN8	V14W/D2RN8	V16W/D2RN8
Power supply		V/Ph/Hz	220-240/1/50			220-240/1/50			380-415/3/50		
Heating[1]	Capacity	kW	4.65	6.65	8.60	12.30	14.10	16.30	12.30	14.10	16.30
	Rated input	kW	0.93	1.35	1.87	2.56	3.07	3.66	2.54	3.05	3.63
	COP		5.00	4.94	4.60	4.81	4.60	4.45	4.84	4.63	4.49
Heating[2]	Capacity	kW	4.80	6.70	8.60	12.40	14.10	16.20	12.40	14.10	16.20
	Rated input	kW	1.33	1.88	2.50	3.52	4.06	4.72	3.45	3.99	4.70
	COP		3.60	3.57	3.44	3.53	3.47	3.43	3.59	3.54	3.45
Heating[3]	Capacity	kW	4.65	6.80	8.60	11.90	14.20	16.10	11.90	14.20	16.10
	Rated input	kW	1.77	2.42	3.13	4.28	5.17	5.91	4.24	5.10	5.83
	COP		2.63	2.81	2.75	2.78	2.75	2.73	2.81	2.79	2.76
Cooling[4]	Capacity	kW	4.60	6.45	8.00	12.20	14.00	15.50	12.20	14.00	15.50
	Rated input	kW	0.95	1.39	1.92	2.55	3.10	3.64	2.53	3.11	3.63
	EER		4.82	4.65	4.16	4.78	4.52	4.26	4.83	4.50	4.27
Cooling[5]	Capacity	kW	4.85	6.30	7.95	10.90	12.90	13.80	10.90	12.90	13.80
	Rated input	kW	1.63	2.27	3.15	3.74	4.64	5.21	3.72	4.62	5.19
	EER		2.98	2.77	2.53	2.92	2.78	2.65	2.93	2.80	2.66
Seasonal space heating energy efficiency class[6]	LWT at 35°C	class	A+++	A+++	A+++	A++	A++	A++	A++	A++	A++
	LWT at 55°C	class	A++	A++	A++	A++	A++	A++	A++	A++	A++
SCOP	LWT at 35°C		4.47	4.47	4.51	4.29	4.27	4.30	4.29	4.27	4.30
	LWT at 55°C		3.24	3.24	3.22	3.23	3.26	3.27	3.23	3.26	3.27
SEER	LWT at 7°C		4.71	4.99	4.92	4.85	4.73	4.54	4.85	4.73	4.54
	LWT at 18°C		7.61	8.58	7.88	7.50	7.16	6.78	7.50	7.16	6.78
Air flow		m^3/h	3050	3050	3050	6150	6150	6150	6150	6150	6150
Sound power level[7]		dB(A)	61	64	67	68	71	71	68	71	71
Sound pressure level[7](1m)		dB(A)	48.8	52.3	54.5	57.6	58.0	58.1	57.2	58.1	59.0
Net dimensions (WxHxD)		mm	1210x945x402			1404x1414x405			1404x1414x405		
Packed dimension (WxHxD)		mm	1500x1140x450			1475x1580x440			1475x1580x440		
Net/Gross weight		kg	92/111			158/178			172/193		
Water piping connections Dia.		inch	1" Male BSP			1-1/4" Male BSP			1-1/4" Male BSP		
Safety valve set pressure		MPa	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Expansion tank volume		L	2	2	2	5	5	5	5	5	5
Total water volume		L	2	2	2	3.2	3.2	3.2	3.2	3.2	3.2
Ambient temperature range	Cooling	°C	-5-43			-5-46			-5-46		
	Heating	°C	-25-35			-25-35			-25-35		
	DHW	°C	-25-43			-25-43			-25-43		
LWT range	Cooling	°C	5-25			5-25			5-25		
	Heating	°C	25-60			25-60			25-60		
	DHW	°C	40-60			40-60			40-60		
Refrigerant	Type		R32			R32			R32		
	Charged volume	kg	2.0			2.8			2.8		
Throttle type			Electronic expansion valve			Electronic expansion valve			Electronic expansion valve		
Backup electric heater	Standard mounted	kW	/	/	/	/	/	/	/	/	/
	Optional	kW	3	3	3	3	3	3	4.5	4.5	4.5
	Capacity steps		1	1	1	1	1	1	1	1	1

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. Sound power level and sound pressure level are the maximum value tested under the three conditions of Notes1, Notes3 and Notes5.
8. The above data test reference standard EN14511; EN14825; EN50564; EN12102; (EU) No 811/2013; (EU)No 813/2013; OJ 2014/C 207/02:2014.

Abbreviations:
DHW:Domestic hot water
EWT:Entering water temperature
LWT:Leaving water temperature

Operating Limits



*The maximum operating temperature of the 5/7/9kW model is 43°C

Abbreviations:
T4: Outdoor temperature(°C)
T1: Leaving water temperature (°C)

Notes:

Shaded areas indicate no heat pump operation (backup electric heater or auxiliary heat source only)

Water flow temperature drop or rise interval


Midea
LIVE GREEN
LIVE SMART


Midea
DISCOVER REAL PEACE OF MIND
AT HOME
M THERMAL ARCTIC SERIES
DISCOVER
easyCOMFORT

HITACHI YUTAKI S SPLIT COMBI AIR TO WATER HEAT PUMP

HITACHI

Yutaki 4.3 to 8kW R32: Refrigerant pipe diameters

		External unit		Refrigerant pipes		Indoor unit	
		Dimensions of the pipe connection		Between the outdoor unit and the indoor unit		Dimensions of the pipe connection	
Model	Pipe length	Gas pipes	Liquid pipe	Gas pipes	Liquid pipe	Gas pipes	Liquid pipe
2 HP	3~50 m	Ø12.7 (1/2")	Ø6.35 (1/4")	Ø12.7 (1/2")	Ø6.35 (1/4")	Ø15.88 (5/8") (*)	Ø6.35 (1/4")
2.5 HP	3~50 m						Ø9.52 (3/8") (*)
3 HP	3~27 m	Ø15.88 (5/8") (*)	Ø9.52 (3/8") (*)	Ø15.88 (5/8")	Ø6.35 (1/4")	Ø15.88 (5/8")	Ø9.52 (3/8") (*)
	27~50 m	Ø15.88 (5/8")	Ø9.52 (3/8")	Ø15.88 (5/8")	Ø9.52 (3/8")	Ø15.88 (5/8")	Ø9.52 (3/8") (*)

*For 2/2.5/3 HP models, the refrigerant pipes and the pipe connections of the indoor units and outdoor units have different diameters, which is why you must use adapters for the refrigerant pipes. These pipe adapters are provided with the outdoor unit.

	Pipe adapter	
Model	Gas pipes	Liquid pipe
2 HP	Ø15.88 → Ø12.7	-
2.5 HP	Ø15.88 → Ø12.7	Ø9.52 → Ø6.35
3 HP	-	Ø9.52 → Ø6.35 (x2)

Benefits - Yutaki air to water heat pumps

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. 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.

Proven quality
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.

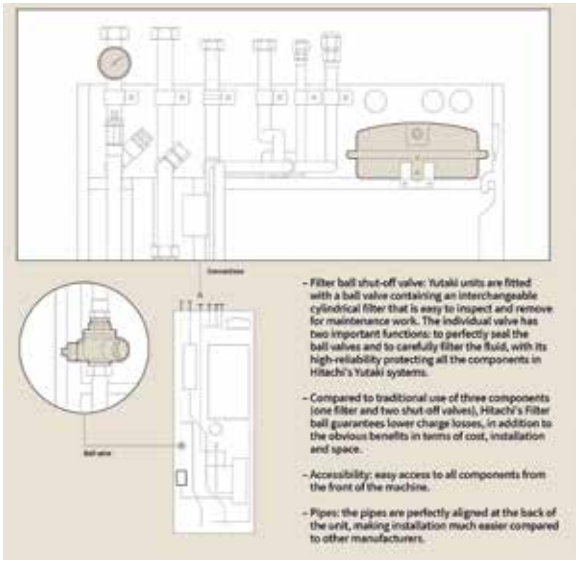
6. Hitachi Experience
Hitachi has more than 60 years' experience in manufacturing heating equipment, with over 4.5 million ASHP systems produced and in excess of 400,000 customers throughout Europe. Our European factory produces the entire Yutaki ASHP range, designing it to meet the needs of the local 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.

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 60º 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.

Yutaki S Combi

Model			R32 REFRIGERANT			R410A REFRIGERANT		
			YUTAKI S COMBI 4.3kW	YUTAKI S COMBI 6kW	YUTAKI S COMBI 8kW	YUTAKI S COMBI 11kW	YUTAKI S COMBI 14kW	YUTAKI S COMBI 16kW
Performance, heating								
Min./rated/max. heating capacity (7°C outside. / 35°C water)		kW	1.85 / 4.3 / 6.5	1.85 / 6 / 8.6	2.1 / 8 / 11	4.3 / 11 / 15.2	4.8 / 14 / 16.7	5.5 / 16 / 17.8
Rated/max. power heating (-7°C outside / 35°C water)		kW	4.5 / 5.3	5.3 / 6.2	5.8 / 7.5	9.7 / 10.6	11.5 / 12	12 / 13
Rated/max. power heating (-7°C outside / 45°C water)		kW	- / 5	- / 5.8	- / 6.67	10 / 10	11 / 11.6	11.5 / 12.5
Rated/max. power heating (-7°C outside / 55°C water)		kW	4 / 4.2	4.7 / 5	5 / 5.5	8.7 / 9.7	9.7 / 11.2	10.5 /12
Rated power input for heating (7°C outside / 35°C water)		kW	0.77	1.21	1.6	2.2	2.97	3.5
COP (7°C outside / 35°C water) in accordance with EN14511		-	5.25	4.8	4.6	5	4.71	4.57
SCOP average climate 35°C / 55°C in accordance with EN14825		-	4.6 / 3.4	4.5 / 3.25	4.5 / 3.2	4.8 / 3.5	4.48 / 3.43	3.9 / 3.23
Seasonal heating energy efficiency ηs (35°C) Single/Three[1]		%	181	177	177	187 / 186	175 / 174	153 / 152
Seasonal heating energy efficiency ηs (55°C) Single/Three[1]		%	130	127	125	136 / 135	133 / 132	125 / 125
Energy rating 35°C / 55°C		-		A+++ / A++			A+++ / A++	A++ / A++
Temperature range of water outlet (heating mode)		°C		20 / 60°C			20 / 60°C	
Max. temperature at the water outlet in thermodynamic-only mode		°C		60°C up to -5 °C outside			60°C up to -10 °C outside	
DHW performance								
DHW COP in accordance with EN16147		-		3.20			3.10	
Seasonal energy efficiency nwh		%		130			127	
DHW energy rating		-		A+			A+	
Temperature range of water outlet (DHW mode)		°C		30 / 75°C			30 / 75°C	
Performance of Cooling model (optional)								
Backup electrical heater as standard / 3-level		kW	4 / 5	5.3 / 6	6.5 / 7	7.2 / 11.8	9.5 / 12.6	10.5 / 13.7
Immersion DHW element as standard		kW	1.17	1.54	2.14	2.18	2.95	3.72
Net weight (220L)		-	4	3.6	3.35	3.54	3.54	3.31
Seasonal reversible energy efficiency ηs (35°C) Single/Three[1]		%	186	180	179	189 / 189	176 / 176	153 / 153
Seasonal reversible energy efficiency ηs (55°C) Single/Three[1]		%	132	128	126	137 / 136	133 / 133	126 / 126
Indoor units			RWD-2.0RW1E-(220)S / K	RWD-2.5RW1E-(220)S / K	RWD-3.0RW1E-(220)S / K	RWD-4.0NW1E-(220)S / K	RWD-5.0NW1E-(220)S / K	RWD-6.0NW1E-(220)S / K
Backup electrical heater as standard / 3-level		kW	3 (1+1+1)	3 (1+1+1)	3 (1+1+1)	6 (2+2+2)	6 (2+2+2)	6 (2+2+2)
Immersion DHW element as standard		kW	3	3	3	3	3	3
Net weight (220L)		kg	120	120	121	124	126	126
Dimensions (H x L x D)		mm		1788 x 595 x 598			1788 x 595 x 598	
Sound power		dB(A)		37			39	
Volume of DHW tank / Material of DHW tank		L		220 L / stainless steel			220 L / stainless steel	
Remote control				Included			Included	
Hydraulic features								
Expansion vessel		L		6			6	
Water flow (min / rated / max)		m³/h	0.5 / 0.77 / 1.8	0.6 / 1.03 / 1.9	0.6 / 1.29 / 1.9	1 / 1.89 / 2.7	1.1 / 2.41 / 2.8	1.2 / 2.75 / 2.8
Hydraulic connections for heating (male/male valves supplied)		inches		1"			1"	
Hydraulic connections for DHW		inches		3/4"			3/4"	
Min. system water capacity		L		28		38	46	55
Electrical features								
Power supply		-		230V / 1Ph / 50Hz			230V / 1Ph / 50Hz or 400V / 3Ph / 50Hz	
SINGLE PHASE 230V	Fuse size with backup heater + immersion	A		32			50	
	Cable width (mm²) / max. length (m)[2]	-		3 x 6 / 28			3 x 10 / 30	
THREE PHASE 400V	Fuse size with backup heater + immersion	-	-	-	-		25	
	Cable width (mm²) / max. length (m)[2]	-	-	-	-		5 x 6 / 20	
Premium outdoor units			RAS-2WHVRP1	RAS-2.5WHVRP1	RAS-3WHVRP1	RAS-4WH(V)NPE	RAS-5WH(V)NPE	RAS-6WH(V)NPE
Sound pressure level at 1m / Sound power		dB(A)	46 / 61	47 / 63	54 / 69	49 / 64	50 / 65	50 / 67
Air flow rate		m³/h		2526	2982	4800	5400	6000
Dimensions (H x L x D)		mm		629 x 799 x 300			1380 x 950 x 370	
Net weight		kg		45	44		103	
Operating ranges in Cooling / Heating / DHW mode		°C		+10~+46 // -20~+25 // -20~+35			+10~+46 // -25~+25 // -25~+35	
Refrigeration characteristics								
Diameter of refrigerant pipes (Liq - Gas)		inches		1/4" - 1/2"*		1/4" - 5/8" 3 to 27m* 3/8" 5/8" 27 to 50m*	3/8" 5/8"	
Min./max. length / max. level difference		m		3 - 50 / 20			5 - 75 / 20	
Initial pre-charged refrigerant / Additional load		kg / g / m	1.2 for 10m / 15	1.3 for 10m / 15	1.3 for 10m / 32	3.3 for 15m / 60	3.4 for 15m / 60	
Refrigerant				R32			R410A	
Compressor				SCROLL	ROTARY		SCROLL	
Electrical features								
Power supply				230V / 1Ph / 50Hz			230V / 1Ph / 50Hz or 400V / 3Ph / 50Hz	
SINGLE PHASE 230V	Fuse size	A		16			32	
	Cable width (mm²) / max. length (m)[2]	-	3 x 2.5 / 28	3 x 2.5 / 24	3 x 4 / 21		3 x 6 / 30	
THREE PHASE 400V	Fuse size	A	-	-	-		16	
	Cable width (mm²) / max. length (m)[2]	-	-	-	-		5 x 4 / 16	
Int./Ext. connection (shielded)		mm²		2 x 0.75			2 x 0.75	

[1]Non-regulated seasonal energy efficiency, Keymark-certified. [2] Data given for reference purposes only. Compliant with the applicable electrical standards. (V) = single.
* 2/2.5/3HP R32 models have different diameters for the cooling gas pipes, cooler connection groups, and indoor units. For that reason, use the adapters provided with the outdoor unit.

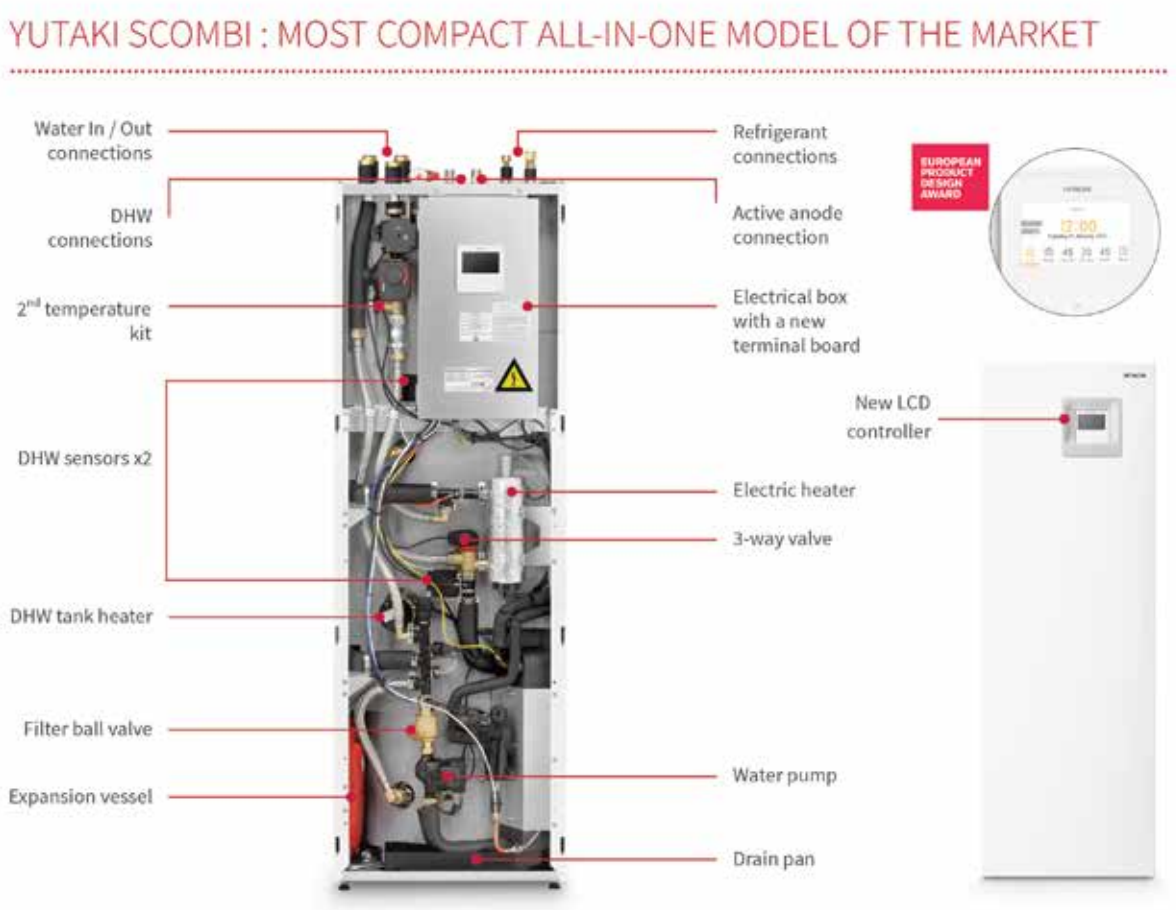
FEATURES & BENEFITS

NEW INDOOR UNIT DESIGN, MORE FUNCTIONALITIES

Controls & connectivity

Newest LCD controller generation

- Outstanding design and user experience.
- With a sleek, award-winning design, our new advanced colour controller offers elegance and ease-of-use.
- New Yutaki S Combi LCD controller can be detached from indoor units and be used as a wired room thermostat.
- All controls embedded in the LCD controller of Yutaki: second circuit, boiler combination, swimming pool operation, electric heater, etc.
- Configuration of the unit is done in few clicks through the LCD controller!



Qual-Press ML PRO
Aluminium Barrier Pipe

PIPELIFE

Meet the Newest Member of the Pipelife Family!

Introducing The New Qual-Press ML PRO Aluminium Pipe System.

Pipelife is delighted to announce the newest addition to our renewable heating solutions family: the Qual-Press ML PRO Pipe. With full BS7291-Class S and WRAS approvals, specifiers and installers alike can have full confidence in the quality and reliability of this new range.

To keep installers supplied with the right top-quality products, the range includes:

- Pipe sizes of 16mm x 2mm, 20mm x 2mm, 26mm x 3mm and 32mm x 3mm.
- Plain white and red or blue insulated coils.
- 25m, 50m, 100m and 500m coils.

Manufacturing Insights

Pipelife manufacturing process from start to finish, meaning that every coil of our Qual-Press ML PRO Pipe is guaranteed from concept to delivery! Each aspect of the pipe is manufactured under the ISO 9001:2015 Quality Management System and our quality assurance team stringently tests performance throughout production. As a testament to our confidence and pride in our manufacturing processes, the new Qual-Press ML PRO Pipe comes with a market-leading 50-year guarantee.

Each pipe is made of a layer of aluminium, sandwiched between two layers of Pert. The metal layer cleverly serves as an oxygen barrier and stops oxygen diffusion through a polymer matrix. This means that oxygen cannot dissolve into the water in the tube and corrode the metal components of the system. As well as offering optimum durability, the Qual-Press ML PRO Pipe bends more effectively than conventional piping as the shape memory of the Pert is offset by the aluminium.

Pipelife ML PRO – THIS IS WHY

- This is a more cost effective pipe system when compared with conventional piping systems
- All the combined advantages of metal and plastic pipes
- Lightweight, flexible and maintains its shape after bending
- Cost effective - requires less fittings than traditional methods
- *Frost resistance* - Due to their flexibility, our new multilayer aluminium pipes will simply expand in the case of frost. This reduces the break risk that may be posed by standard metallic pipes.
- *Low thermal conductivity* - The multiple layers of our new aluminium pipe system offer low thermal conductivity, reducing heat losses to produce energy savings.
- *Lightweight* - With a lightweight and flexible construction, handling, transport and installation of the Qual-Press ML PRO Pipe is a breeze.
- *Noise reduction* - Whereas metallic pipes can produce significant noise at any water speed exceeding 1m/second, our new aluminium pipes stay quiet up to speeds of 2.5m/second.
- *Corrosion resistant* - Multilayer pipes contain a great number of chemical agents including acids and bases that are resistant to corrosion.
- *Longlife* - Even at high temperatures and pressure, the lifetime of the new Qual-Press ML PRO Pipe can reach 50 years.
- *Suitable for drinking water* - the pipe's multiple layers retain the organoleptic properties of water, ensuring its use is allowed by European Union authorities.

COMPATIBILITY of the Qual-Press ML PRO Aluminium Pipe System

The innovative Qual-Press ML PRO Pipe is ideally suited for all domestic heating systems including underfloor heating and can be used with any suitably approved or certified Press fitting.

Tiemme | PF press | Emmetti | Instantor Press | Presstite | Ape | Comisa | Rifeng

Qual-Press ML PRO

Aluminium Barrier Pipe

Meet the Newest Member of the Pipelife Family!

PLAIN COILS

CODE	DESCRIPTION
3095101019	Qual-Press ML PRO 16x2x500m H&C
3095101020	Qual-Press ML PRO 16x2x100m H&C
3095101021	Qual-Press ML PRO 20x2x100m H&C
3095101022	Qual-Press ML PRO 26x3x50m H&C
3095101023	Qual-Press ML PRO 32x3x50m H&C

INSULATED COILS

CODE	DESCRIPTION
3095101011	Qual-Press ML PRO 16x2x100m 6mm INS BLUE
3095101012	Qual-Press ML PRO 16x2x100m 6mm INS RED
3095101013	Qual-Press ML PRO 20x2x100m 6mm INS BLUE
3095101014	Qual-Press ML PRO 20x2x100m 6mm INS RED
3095101015	Qual-Press ML PRO 26x2x50m 6mm INS BLUE
3095101016	Qual-Press ML PRO 26x2x50m 6mm INS RED
3095101017	Qual-Press ML PRO 32x3x25m 6mm INS BLUE
3095101018	Qual-Press ML PRO 32x3x25m 6mm INS RED

Our New Qual-Press ML PRO is also an universal pipe that can be used with any other suitably Approved/Certified Press Fittings *

– Talk to your Local Sales Rep for more information

Another Game Changer from Pipelife!

* (i.e meeting Irish Agrement Board requirements and/or relevant European Standards, i.e. fittings manufactured to EN ISO 21003). This guarantee is subject to our standard terms and conditions.

Qual-Press ML PRO

Aluminium Barrier Pipe

Product description
16mm x 2mm, 20mm x 2mm, 26mm x 3mm and 32mm x 3mm AL-PERT multilayer pipes available in plain white & red and blue insulated coils. Available in 25M, 50M, 100M & 500M coils.

Field of application
Product is suitable for heating and plumbing applications for domestic, commercial & industrial applications in addition to drinking water applications.

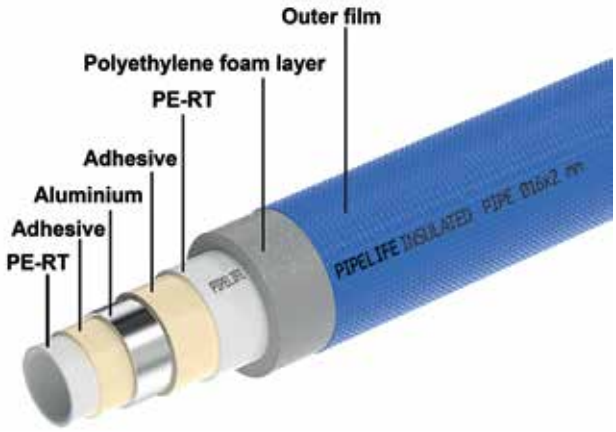
Certification
Al-Pert is manufactured and tested in an ISO 9001:2015 accredited manufacturing facility and is certified to EN ISO 21003.
Material is WRAS approved for drinking water applications.

Product guarantee
Scope of the guarantee is for a minimum period of 50 years.

Pipe layering - technical information
1. Polyethylene inner pipe (PE-RT).
2. An adhesive layer bonding the inner pipe to the aluminum oxygen barrier.
3. Butt-welded aluminum oxygen barrier layer.
4. An adhesive layer bonding the outer pipe to the aluminum oxygen barrier.
5. Polyethylene outer pipe (PE-RT).
6. 6mm insulation available in red and blue.

Jointing
Pipes are suitable for jointing with press and compression fittings.

Key performance data
Max. Operating temperature: 95C.
Max. Operating pressure: 10bar.
Coefficient of linear expansion: 0.026 mm/m K.
Minimum bending radii: 5 X pipe outer diameter.
Oxygen diffusion: 0 mg/ld.
Thermal conductivity: 0.43 W/mK.



PIPELIFE

QUAL-PEX PLUS+ EASY-LAY PIPE

- Qual-PEX Plus+ Easy-Lay Pipe is the next generation plumbing & heating pipe, for hot and cold water distribution services, as well as for central heating and underfloor heating systems.
- Qual-PEX Plus+ Easy-Lay Pipe is extremely flexible, with exceptional lay-flat capability, enabling faster, easier and more cost-effective installations.
- Qual-PEX Plus+ Easy-Lay Pipe has been developed, tested and approved for hot and cold water services, central and underfloor heating systems.
- Qual-PEX Plus+ Easy-Lay is available in the following sizes in both lengths & coils.
  Irish Sizes:- 1/2" (14.7mm), 3/4" (21.0mm) and 1" (27.4mm) & Metric sizes of - 16mm, 20mm, 26mm & 32mm
- Qual-PEX Plus+ Easy-Lay Pipe can also be purchased pre-insulated - Qual-PEX Plus+ 'Easy-Lay' Eco.
- Is 100% Irish Made and is manufactured to the most stringent standards allowing you to install with confidence.
- 50 Year Guarantee.
- The 'Qual-PEX Pipe Family', inclusive of Qual-PEX Plus+ 'Easy-Lay', Qual-PEX, Qual-PEX Pipe-in-Pipe, Eco-PEX & Qual-PEX Eco-Duo, are supplied by Pipelife Ireland Limited, from a manufacturing facility that operates under a Quality Management System that is fully certified, by BSI, to the internationally recognized standard 'ISO9001:2015'.
- Qual-PEX Plus+ 'Easy-Lay', in particular, produced in both 'white / metric sizes', and 'traditional tan coloured imperial sizes', is certified to 'BS EN 21003", and has been designed to provide the plumbing professional with a 'universal piping solution', and both the service conditions under which the pipe may be used, and the fittings with which the pipe is fully compatible, are listed in the tables below.

Other relevant certifications / approvals, applicable to the 'Qual-PEX Pipe Family', include Irish Agrément Board, BS7291, and WRAS.

- Qual-PEX Plus+ 'Easy-Lay' is approved for use under the following service conditions:
  - 12 Bar at 20°C
  - 8 Bar at 80°C

- Qual-PEX Plus+ Easy-Lay is designed to complement, with full compatibility, fitting ranges as follows:
  - Qual-PEX Crimp Fittings
  - Tectite Fittings
  - Suitably approved 'Push-Fit fittings'
  - Suitably approved 'Compression fittings'
  - Suitably approved 'Press Fittings'

Pipelife Ireland Limited fully guarantees the 'Qual-PEX Pipe Family', inclusive of Qual-PEX Plus+'Easy-Lay', Qual-PEX, Qual-PEX Pipe-in-Pipe, Eco-PEX & Qual-PEX Eco-Duo against material or manufacturing defects, for fifty years, provided the products are installed correctly, with suitably certified / approved fittings (i.e. meeting Irish Agrément Board requirements, and / or relevant European standards), in accordance with best practice, and the stipulations in our technical literature, as well as any specific guidelines provided by relevant third party fittings manufacturers, and also that the plumbing installation is suitably maintained / controlled, with a system operating temperature / pressure profile in line with our recommended criteria.

GET THE PLUS+ ADVANTAGE

WITH OUR

Qual-Pex PLUS+ EASY-LAY

MULTILAYER PIPE

Our Qual-Pex Plus+ 'Easy-Lay' Multilayer Pipe is a universal pipe that can be used with any suitably approved/certified press fitting*

Tiemme

PF press

Emmetti

Instantor Press

Presstite

Ape

Comisa

50 YEAR

* (i.e meeting Irish Agrement Board requirements and/or relevant European Standards, i.e. fittings manufactured to EN ISO 21003)
This guarantee is subject to our standard terms and conditions

PIPELIFE Ireland Limited, White's Cross, Cork.
1B Damastown Way, Mulhuddart, Dublin 15
T +353 21 488 4700 E ireland@pipelife.com , **pipelife.ie**

PIPELIFE
always part of your life

QUAL-PEX PLUS+ ‘EASY-LAY’ ECO

PRE-Insulated Qual-PEX Plus+ ‘Easy-Lay Pipe. From Pipelife Ireland Limited, Ireland’s leading manufacturer of Heating & Plumbing solutions.

Benefits:

- A pre-insulated Pipe to save time, money and energy costs for Domestic, Commercial and Industrial applications.
  Available in imperial sizes of 1/2”, 3/4” & 1” in 50m Coils which are approved for use with Qual-Pex Plus+ ‘Easy-Crimp’, Tectite and compression fittings.
- Also available in multilayer sizes of 16mm, 20mm, 26mm & 32mm & are approved for use with suitably approved/certified Press-Fittings.
- Manufactured in Ireland.
- 50 Year guarantee.
- Available through all leading merchants.
- Standard Pipe Insulation 6mm – Also available in 9mm and 13mm insulation on special request

PERFORMANCE CHARACTERISTICS

Thermal Conductivity	
0°C	0.036 W(m - K)
40°C	0.040 W(m - K)
Wall Thickness of Insulation	
6mm	STANDARD
Density	
25kg/m3	

Product Description:
It is insulated with a high quality CFC-free and HCFC free, blue or red flexible closed cell polyethylene pipe insulation. It has been designed to save time, money and energy costs and will improve the energy rating (BER) of any building.

HEAT LOSS RATES (in W/M)

Hot Water Line Temp. 60 °C - Ambient Temp. 15 °C

Pipe Size	Insulation Wall Thickness	
	0mm	6mm
1/2” / 15mm / 16mm	33.38	13.45
3/4” / 22mm / 20mm	39.93	15.24
1” / 28mm / 26mm	45.25	17.88

Central Heating Line Temp. 75 °C - Ambient Temp. 15 °C

Pipe Size	Insulation Wall Thickness	
	0mm	6mm
1/2” / 15mm / 16mm	47.87	18.12
3/4” / 22mm / 20mm	57.28	21.43
1” / 28mm / 26mm	66.95	23.89

The Insulation:
The insulation is a high quality insulation with a low thermal conductivity. It is highly efficient in energy conservation and frost protection. It is non fibrous and creates no dust during installation or use. It has a durable PE-film covering allowing maximum protection against water penetration and maximum bonding with concrete. It is also designed to give mechanical protection for in-wall cavity pipelines, which includes resistance to building materials and has a pleasing coating for exposed areas.

QUAL-PEX PLUS+ ‘EASY-LAY’ ECO DUO

PRE-Insulated and Ducted Qual-PEX Plus+ ‘Easy-Lay’ for Local & District Heating from Pipelife, Ireland’s leading manufacturer of Heating & Plumbing Solutions.

Benefits:

- Irish size pipe eliminates the need for expensive adaptors
- Use with standard 1” compression fittings & Qual-PEX inserts
- Manufactured in IRELAND
- 50 year guarantee
- Available in coils of 100m
- Coils can be cut to order
- Range of end caps & junction covers available
- Available in all leading Merchants

Product Description:

Two pre-insulated, 1” Qual-PEX Plus+ ‘Easy-Lay’ Pipes encapsulated in 110mm of high performance insulation protected within a corrugated PE-HD twin wall outer casing for maximum protection. Delivering industry leading thermal insulation properties using Ireland’s leading plumbing and heating pipe. Qual-PEX Plus+ ‘Easy-Lay’ ECO Duo has been designed to simplify and speed up installation by utilising standard Irish size fittings and pipe and to greatly enhance energy conservation, thus reducing energy costs.

The Pipe: Approvals & Testing

Qual-PEX Plus+ ‘Easy-Lay’, in particular, produced in both ‘white / metric sizes’, and ‘traditional tan coloured imperial sizes’, is certified to ‘IS EN 21003’, and has been designed to provide the plumbing professional with a ‘universal piping solution’. Other relevant certifications / approvals, applicable to the ‘Qual-PEX Pipe Family’, include Irish Agrément Board, BS7291, and WRAS.

APPROVED PIPE SERVICE CONDITIONS:

- 12 Bar at 20°C
- 8 Bar at 80°C

Installation:

Consists of micro-cellular cross-linked polyethylene foam with a closed cellular structure, permitting low water vapour diffusion with good insulation resistance to extreme temperatures. Moreover, Qual-PEX Plus+ ‘Easy-Lay’ ECO Duo maintains these high insulation properties over time. This is due to the superior characteristics of the cross linked PE foam, compared to other insulation materials (e.g. PUR foam) which show a decline in their insulation capabilities over time. Its unique moving layers design allows maximum flexibility and very easy installation.

Description	Value	Standard
Density	28 kg/m^3	ISO 845
Tensile Strength	270kPa	ISO 1926
Water Absorption	<1.0 %	ISO 2896
Thermal Conductivity	0.036 W/mK	EN 12677
Flammability	B2 Normal	DIN 4102
Recommended Service t°	-50°C up to +°95C	

SMART SYSTEM CONTROL

WHAT LEVEL OF CONTROL DO YOU REQUIRE? EXPLORE OUR VARIOUS LEVELS OF ENERGY EFFICIENT THERMOSTAT TECHNOLOGY.

The Range

Our comprehensive range of thermostats offer a wide variety of solutions and are ideal for new builds and retro fit projects. We can offer a standard room thermostat all the way up to latest smart technology controls, the possibilities are endless and the result is always an energy saving efficient system. All our thermostat range are programmable and available in hard wired (230v or 12v), wireless and Smart versions.

heatmiser

SLIMLINE THERMOSTATS

Our range of mains thermostats are "standard" products enabling the replacement of existing thermostats. These products can be used in conjunction with the Pipelife - UH8, our mains voltage central wiring switch box.

TOUCH SCREEN THERMOSTATS ALSO AVAILABLE ON REQUEST

THREE RANGES

230v Models can be used to upgrade existing thermostats and can be used in conjunction with our Pipelife - UH8 wiring centre.

12v Network Models have been designed to work as part of a network system, and can be used in conjunction with our UH1 wiring centre and network products.

Air/Floor Models are supplied with a remote floor sensor and provide the ability to measure room temperature, floor temperature or both.

Modern Slimline Appearance

The slimline thermostat series is flush mounting, resulting in a depth of only 13mm after installation.

Energy Saving Optimum start

Most home owners manually allow for a heat up time when programming their heating system. This manual method does not allow for seasonal changes. Optimum start is an energy saving feature that calculates the amount of heat up time required to ensure your home is warm when you wake and return home from work. The thermostat will automatically adjust the heat up time throughout the year, saving you energy.

Temperature Hold Facility

This function allows you to hold a set temperature for a specific duration - ideal for parties. After the hold duration, the thermostat will revert back to the programmed setting.

Holiday Function

The holiday function reduces the set temperature in your home for the duration of your holiday. At the end of your holiday, the thermostat will revert back to the programmed setting, ensuring your home is warm on your return.

Optional Remote Control

All models within our slimline series are compatible with our Infrared remote control

Temperature Override

The override facility allows you to adjust the desired temperature in your home without the need to fully re-program the thermostat. This new set temperature will be maintained until the next programmed setting. An override limit function allows you to limit the use of temperature override keys.

	230v Models			12v Network Models				230v Air/Floor Models	
	DT	**PRT**	**PRT/HW**	**DT-N**	**PRT-N**	**PRT/HW-N**	**PRT-EN**	**DT-E**	**PRT-E**
Temperature Range	05-35°C 05-95°F	05-35°C 05-95°F	05-35°C 05-95°F	05-35°C 05-95°F	05-35°C 05-95°F	05-35°C 05-95°F	05-35°C 05-95°F	05-35°C 05-95°F	05-35°C 05-95°F
5/2 Day Programming Mode	No	Yes	Yes	No	Yes	Yes	Yes	No	Yes
7 Day Programming Mode	No	Yes	Yes	No	Yes	Yes	Yes	No	Yes
No of Heating Levels	1	4	4	1	4	4	4	1	4
Optimum Start	No	Yes	Yes	No	Yes	Yes	Yes	No	Yes
No of HW Times	0	0	4	0	0	4	0	0	0
Holiday Function	No	Yes	Yes	No	Yes	Yes	Yes	No	Yes
Keylock Function	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Temperature Hold Function	No	Yes	Yes	No	Yes	Yes	Yes	No	Yes
Temperature Override	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Temperature Override Limit	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Frost Protection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Networking Protection	No	No	No	Yes	Yes	Yes	Yes	No	No
°C / °F Option	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Built In Air Sensor	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Floor Sensing Mode	No	No	No	No	No	No	Yes	Yes	Yes
Floor Sensor Included	No	No	No	No	No	No	Yes	Yes	Yes
Max Switching Current	3A	3A	3A	3A	3A	3A	3A	13A	13A
Accuracy	+/-1°C	+/-1°C	+/-1°C	+/-1°C	+/-1°C	+/-1°C	+/-1°C	+/-1°C	+/-1°C
Infrared Remote Control Option	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Adjustable Switching Differential	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Changeover Output Option	Yes	Yes	No	No	No	No	No	No	No
Supply	230v	230v	230v	12v	12v	12v	12v	230v	230v
Dimensions	98x85x13mm	98x85x13mm	98x85x13mm	98x85x13mm	98x85x13mm	98x85x13mm	98x85x13mm	98x85x13mm	98x85x13mm
Weight	195g	195g	195g	195g	195g	195g	195g	195g	195g

heatmiser

4 channel time clock for time control of rads and hot water.

Four switches operated by a clock to control 4 separate heating systems independently. The user can choose one or more on or off cycles, daily and even weekly cycles depending on user preference. Time control of underfloor heating is controlled at room thermostats.

Two Ranges
230v Models are designed to work with our UH8 wiring centre and dial thermostat with set back function, providing simple but effective control.

12v Network Models have been designed to work as part of a network system, and can be used in conjunction with our UH1 wiring centre and network products.

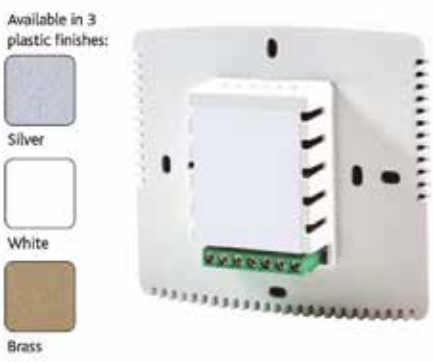
No of Switching Times
4 On/Off times are provided on all time clock models, allowing flexible control of your heating system.

On/Off/Constant
A mode select button providing an easy method of switching between permanent on, permanent off or auto (time clock mode) TM4 only.

Countdown Timer
A simple yet useful function that enables the output for the duration of the programmed countdown time.

+Boost Facility
The programmable boost function allows you to extend the program time, in 30 minute increments - ideal for unscheduled operation of the system.

Touchscreen Time Clock



Pipelife UH8
The underfloor heating system for both ground and first floor (if required), domestic hot water and a radiator system. It is extremely versatile due to the fact that it has priority to hot water, connection On/Off/Constant for boiler and primary pump, boiler interlock provision, motorized individual zone control provision. It is suitable for pumped zone systems and has

heatmiser

WIRELESS THERMOSTATS

Wiring a conventional thermostat often includes lifting floor-boards or chasing out plaster work. Our wireless thermostats offer an effective alternative, and are the ideal choice for extensions or when you are looking to relocate your thermostat.

Relocate

Many thermostats are sited incorrectly, causing your boiler to come on more than necessary. A wireless thermostat allows you to move your thermostat to a more suitable position, without the need to run additional cables. What's more, our Touchscreen models have a desk stand, enabling you to move the thermostat around the house with you.

Rechargeable Battery (TouchScreen models only)

Our Wireless Touchscreen series incorporate a rechargeable battery, saving money on replacement batteries. A USB recharge cable is provided, and an optional plug-in charger is available.

Fail Safe

A loss of wireless connection could leave your home vulnerable to frost damage. The fail safe function enables the heating for 20% of the time, ensuring the temperature in your home does not drop to dangerous levels.

Locking Facility

A simple way to reduce tampering of the system settings, and standard across our wireless thermostat series.

Electric Floor Heating

The electric floor heating models are capable of switching up to 16A and use a floor limiting sensor to protect the floor surface.

Touchscreen Wireless Thermostat Series

Slimline Wireless Thermostat Series

Wireless 230v 8 Zone Wiring Centre

The UH8-W is designed to be used in conjunction with our slimline wireless thermostats. The UH8-W provides central switching and is therefore ideally situated next to the underfloor heating manifold. 8 zones can be controlled as well as providing an output for a hot water cylinder. On demand from any zone, a 230v output is provided to switch the relevant zone actuators, underfloor heating pump and valve. A volt free connection is supplied for the boiler, making it compatible with almost all types of boilers. Up to 6 actuators can be connected to each zone. An external aerial is available for use when the UH8-W is being mounted in a metal cupboard or when the wireless signal is restricted.

A software option in the thermostat allows you to configure which zones are underfloor heating and which zones are radiators. Radiator zones will not enable the underfloor heating pump and underfloor heating valve when there is a call for heat.

NEO CONTROLS

Neo is the Smart Way to Control your Heating and Hot Water from Anywhere. Up to 32 Rooms can be controlled from your iPhone, Android and Windows Phone. NeoStat's are stylish, feature rich and are perfect for controlling underfloor heating, electric floor heating and conventional radiator heating systems.

Now Featuring Geo Location

- Geo Location is an exciting new feature that makes it even easier to reduce your energy costs. Neo will lower the temperature in your home when it detects the last person has left and will turn the heating back on when it detects someone is on their way home.
- Using Location Services feature on your iPhone or Android SmartPhone, Neo can now help you reduce your energy consumption by turning the heating off when you are out.
- Supporting Multi Users, Neo can automatically reduce the temperature in your home when the last person leaves and increase the temperature when the first person returns.
- Neo has always been about Multi Zone and our Geo Location Feature is no different by allowing you to select which zones you want to control when you leave or return. Geo Location is perfect for busy households when a fixed heating schedule just isn't practical.

How does Geo Location work?

Geo Location uses the mobile phone masts, nearby WiFi and your GPS to calculate your position. When you setup Geo Location on Neo, you set a leaving and returning trigger. When you pass these triggers, Neo will adjust the temperature in your house.

Reduce your Energy Cost and return to a Cozy Home

You can decide the temperature that Neo will control to when you leave home and again when you return. The temperature you ask for will depend on the type of heating system you have and the time your home takes to warm up.

Notifications on your SmartPhone

You will see a notification on your phone when Neo has adjusted the temperature in your home - so you always know when Neo is saving you energy.

LOW TEMPERATURE RADIATORS

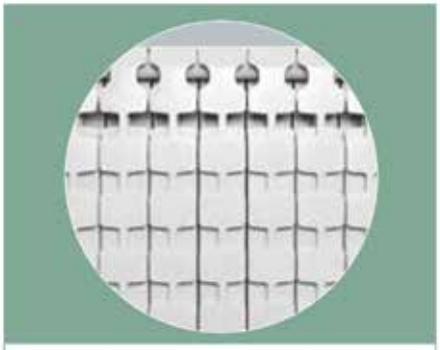
Choose the Master radiator, choose the heat evolution:

Master stems from a research project aimed at optimizing radiator performances in order to offer a product with high mechanical and energetic capabilities.

A high degree of innovation, achieved thanks to the two patents this product was able to obtain, allows the Master radiator to be ideal for renovations and low temperature heating systems.

Choose the Master radiator, discover all its advantages designed for You:

- Ideal for low temperature heating systems;
- Excellent weight/power ratio, which facilitates handling and installation;
- Modular: perfect for any space;
- High technological content: 3 international patents;
- Unalterable over time, thanks to its double varnish coating: anaphoresis and powder;
- 100% made in Italy;
- Nominal pressure: 16 bar;
- Pressure Test (undergone by 100% of manufactured products): 24 bar;
- Bursting pressure: 60 bar;
- Greater heat exchange = outstanding performances, low power consumption.



Choose the Master radiator, install the product of the future:
The openings at the rear of the radiator increase convective heat exchange.

CE

Model	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Heat output ΔT 50K	Heat output ΔT 30K	Exponent	Coefficient
	mm	mm	mm	mm	inches	litres/sect.	W/sect.	W/sect.	n	K_m
MASTER B4 350/100	97	407	350	80	G1	0,20	89,9	47,2	1,2598	0,6506
MASTER B3 500/100	97	557	500	80	G1	0,24	114,9	59,9	1,2768	0,7783
MASTER B3 600/100	97	657	600	80	G1	0,27	132,2	68,9	1,2763	0,8973
MASTER B3 700/100	97	757	700	80	G1	0,39	149,5	77,7	1,2819	0,9928
MASTER B3 800/100	97	857	800	80	G1	0,42	165,0	85,1	1,2962	1,0360

Maximum working pressure: 1600 kPa (16 bar)
Characteristic equation of the model Φ=Km ΔTn. The thermal efficiency values shown comply with the European Standard EN 442-1:2014 and are certified by the MRT Lab of the Milan Polytechnic, notified body no. 1695.

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

Discover our broad Product Portfolio at

www.pipelife.ie

Plumbing and Heating Pipes & Fittings | Underfloor Heating

Air to Water Heat Pumps | Home Heating Solutions

Waste Water Drainage | Water & Gas Distribution | Cable Ducting

Roofline, Window and Cladding Systems

COMPARING QUOTES OR WHAT CAN GO WRONG?

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. THE QUALITY AND 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.

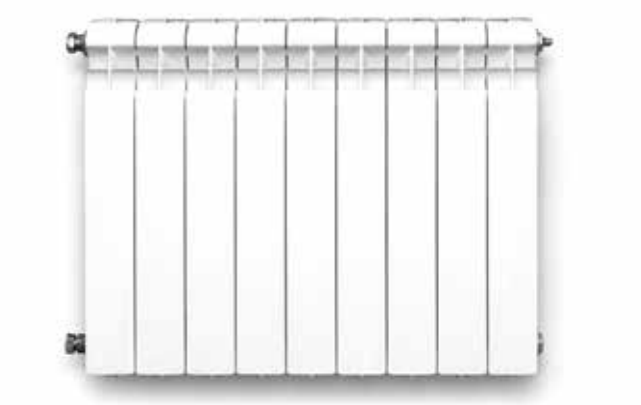
The heat output in these circumstances can only be reached by pumping much higher temperature water through the pipes which will result in much higher heating bills that you would otherwise pay for a well designed solution.

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 Irelands 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 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.

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.

PIPELIFE ECO

Renewable Heating Solutions

Our Reputation, Your Peace of Mind.

www.pipelifeeco.ie

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
Block 643 Jordanstown Road, Greenogue Business Park, Rathcoole, Dublin D24 RX0C
T +353 21 488 4700 **E** Ireland@pipelife.com **pipelife.ie**

PIPELIFE