

THE ZIP INLINE[®] INSTANTANEOUS RANGE

ELECTRONIC INSTANTANEOUS WATER HEATERS



IT'S WATER. REFRESHED.



WHY ZIP?

Zip InLine instantaneous water heaters are the most energy efficient means of directly heating water electrically. InLine offers a host of Specifier, Installer and end user benefits.



EASY INSTALLATION

Zip InLine products simply connect to standard closed outlet taps without the need for unvented water controls





ZIP INLINE CEX® Over and undersink options for single or multiple outlets

ZIP INLINE DEX° / DBX°

Generates larges volumes of hot water for a variety of applications

ZIP INLINE ES[®]

Compact electronically controlled instantaneous water heater for hand washing



INNOVATIVE TECH

All InLine products feature Bare Wire technology, bringing all the benefits of control, comfort and efficiency

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INTRODUCING ZIP INLINE

THE MOST ENERGY EFFICIENT HOT WATER SOLUTION ON THE MARKET

Zip is the leading supplier of hot water systems thanks to many years of experience within the water delivery market. Our passion for quality and stringent manufacturing standards mean each and every one of our products is built to deliver – and last. You can also be sure that our products have been designed with the very best energy efficiency in mind, helping consumers and businesses to reduce their environmental impact.

Easy-to-install, compact and convenient, our products are made with the specifier, installer and end-user in mind. With outstanding support from our nationwide team, you're in good hands should anything need replacing.

Featured product Zip InLine CEX

WHY ZIP INLINE INSTANTANEOUS?

Zip InLine water heaters are the most energy efficient means of directly heating water electrically. Using the very latest German technology, Zip InLine offers a host of specifier, installer and end user benefits.

Featured product Zip InLine ES

ELECTRONIC

UNBEATABLE BENEFITS

Beneficial to both your budget and the environment, Instantaneous Water Heaters offer a very effective means of delivering instant and continuous hot water within residential and commercial projects. The water is heated at the point of use and only when required. Zip water heaters are the top choice of consultants, office and shop fitters, engineers and developers.

- Unrivalled energy efficiency no standing heat loss
- Instant hot water on demand
- Sophisticated electronic control
- Unlimited hot water supply
- Easy to install
- Neat, compact design

EXTREME ENERGY EFFICIENCY

Zip InLine saves energy by:

- 1. Heating only the water drawn off
- 2. Avoiding stored water heat losses

When comparing the energy used over 24 hours to deliver 75 litres of water at 38°C (assuming 12°C supply), typical savings can be achieved:

Product	Energy Usage
15 litre storage water heater	3.0 kWh
Zip InLine	2.3 kWh

WATER CONSERVATION

Zip InLine products are designed for installation close to the point of use, requiring little run off of water before achieving the correct temperature.

Savings per draw off compared to centralised systems with long pipe runs are as follows:

Traditional System Pipe Run (15mm pipework)	Litres saved per draw off
10 metres	3.2





THE SIMPLE AND COST-EFFECTIVE INSTANT HOT WATER SOLUTION FOR YOUR PROJECT



INNOVATIVE BARE WIRE TECHNOLOGY

Zip continues to lead the way in hot water technology. All InLine products feature Bare Wire technology, bringing all the benefits of control, comfort and efficiency, that have been enjoyed for many years in Europe, to users in the UK.

THE FASTEST HEAT UP TIMES

Unlike traditional instantaneous water heating products, where the heating element is enclosed in a heat exchanger, bare wire products have the element directly immersed in the water flow path. This allows heat to be safely transmitted directly to the water, giving significantly greater efficiency and a much quicker heat-up time.

The mass of traditional elements and heat exchangers absorb energy before water is delivered at a usable temperature. This energy is allowed to dissipate after use or can cause temperature spikes when more water is drawn off. Bare wire technology prevents these issues, providing the most energy efficient means of directly heating water electrically. This quick reaction time, coupled with InLine's electronic control systems, ensures accurate temperature control with the most efficient energy use.

Meticulous design in accordance with industry standards for bare wire products ensures complete protection as attested by VDE approval.

EASY INSTALLATION

Zip InLine products simply connect to standard closed outlet taps without the need for unvented water controls. ES and DEX/DBX are supplied with a bracket for easy fitting.

SMART DESIGN

The ES range features a choice of installation methods, either using standard tapware and fittings or, alternatively, one of two kit options, offering either a non-concussive tap or a mixer tap option. There is also a range of touch-free taps, shower hand sets and aerator nozzles, designed to make the operation of the Zip InLine as easy as possible.

The unit's compact size enables them to fit neatly and unobtrusively in any location.

ADVANCED ELECTRONIC CONTROL

Power to the heating element is regulated to ensure that the required outlet temperature is precisely achieved, regardless of the incoming water temperature and pressure.

UNLIMITED WATER SUPPLY

Zip InLine delivers a continuous supply of hot water at the selected temperature.^{*}

SAFETY

Effective electronic controls ensure that there is no need for the use of a thermostatic blending valve.











ENERGY EFFICIENCY

ENERGY RELATED PRODUCTS (ERP) DIRECTIVE

The Ecodesign of Energy Related Products Directive 2009/125/EC is a framework directive which primarily focuses on energy in use. It does this by setting minimum requirements for certain energy consuming products.

HOW DOES THE RATING WORK

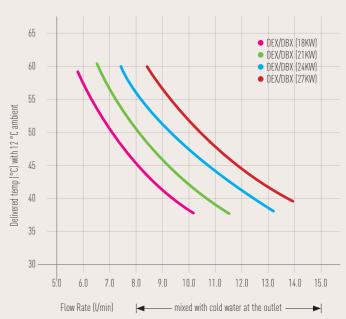
The scheme was initiated in 2009 and has already manifested itself in the area of white goods, such as washing machines and refrigerators. You will be familiar with the energy rating labels shown alongside these products at their point of sale.

For directly heated water heaters, the rating is based upon the efficiency of the product and is on a scale from A to G where A is the most efficient.





SINGLE PHASE 60 ES3 ES4 ES6 CEX (6.6KW) 55 • CEX (8.8KW) DEX12 d temp (°C) with 12 °C ambient B Delli 35 30 25 -1.0 2.0 3.0 4.0 5.0 6.0 7.0 0!0 Flow Rate (I/min)

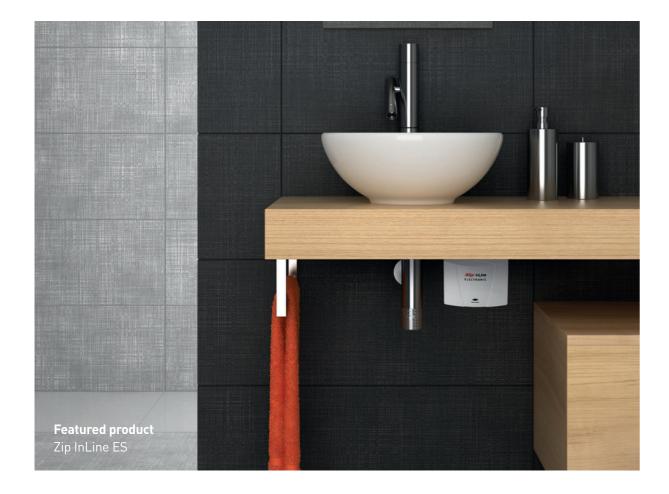


THREE PHASE

ZIP INLINE ES[®]

SINGLE OUTLET FOR HAND-WASHING

The Zip InLine ES instant water heater combines great functionality with sophisticated design. Its compact design allows for installation under any sink.



ACCESSORIES (see page 24)



OPTIONAL WIRELESS CONTROL



The appliance must be installed in a frost-free environment. Zip ES products comply with IP25 and may be installed in Zone 1. The unit should be positioned as close as possible to the outlet to minimise heat loss.

• The most energy efficient way to directly

• Zip InLine ES provides instant hot water for

• Heating power is controlled electronically to

applied to compensate for inlet pressure and

• Outlet temperature factory set to 38°C, but can

be installer adjusted between 30°C and 43°C

• Stainless steel bare wire heating element for

• Double pole over-temperature protection

• Safe operation without the need for a

thermostatic blending valve

• Sophisticated electronics adjusts power

heat water, electrically

maintain set temperature

temperature variations

PLUMBING

LOCATION

ES BENEFITS

handwashing

fast heat up

The appliance is intended for connection to the mains water supply. It should be installed by a suitably qualified person.

It may be used as an unvented installation, as shown in the diagram opposite, or as a vented installation as described in the fitting instructions.

For correct operation it is essential that the special tap nozzle supplied is fitted to the tap spout. For use with taps having removable M22/ M24 nozzles.

Not recommended for use with thermostatic mixing valves or taps.

ERP RATING

Class A (see page 11)

ELECTRICAL

The appliance must be earthed and connected to the mains supply by means of permanent wiring through suitable isolation, having a contact separation of 3mm in all poles and should only be operated if protected by an RCD rated at 30mA. Installation must be in accordance with current IEE regulations.

APPROVALS

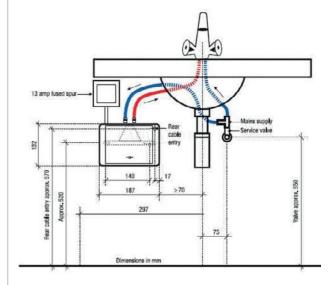
WRAS and VDE approved, CE endorsed.

WARRANTY

12 months on-site parts and labour.

TYPICAL INSTALLATION - UNVENTED





ZIP INLINE ES[®]



TECHNICAL DATA

MODEL	ES3	ES4	ES6
Electrical supply	1/N/PE ~230V		
Maximum inlet pressure	1 MPa (10 bar)		
Recommended Minimum Pressure		0.2 MPa (2 Bar)	
Capacity		0.2 litres	
Element Type		Bare Wire	
Nominal power rating @230V (KW)	2.8	4.4	5.5
Nominal current @ 230V (A)	12	19	24
Temperature adjustment		30°C to 43°C	
Factory temperature setting		38°C	
Maximum inlet temperature		70°C	
ERP Rating	А	А	А
Factory flow setting at 3 bar	2.0 l/min	2.5 l/min	3.3 l/min
Maximum temperature increase @ 230V and a flow rate of:			
1.5 l/min	27°C	42°C	52°C
1.7 l/min	24°C	37°C	46°C
2.0 l/min	22°C	34°C	43°C
2.5 l/min	18°C	27°C	34°C
3.0 l/min	15°C	23°C	29°C
3.5 l/min	13°C	20°C	24°C
4.0 l/min	11°C	17°C	21°C
Maximum Temperature output of 43 °C N.B. Temperature increase + cold water inlet temperature = maximum hot water temperature			
Required specific water resistance @ 15°C	ightarrow1100 ohm.cm	→800 ohm.cm @	→800 ohm.cm @
Switch on flow rate	1.2 l/min	1.5 l/min	1.5 l/min
Switch off flow rate	1.0 l/min	1.3 l/min	1.3 l/min
Filled weight	1.5 kg		
Dimensions (H x W x D)	135mm x 186mm x 87mm		
Water connections	1⁄2" BSP		
Protection class	IP25		
Application guide lines	See Pages 26-27		

INSTANTEOUS HAND WASH PACKS COMPLETE WITH HEATER, TAP & FITTINGS

These packs provide an installer with the ES heater, compatible tap and a comprehensive plumbing kit, including flexible hoses and fittings to ensure a quick and easy system installation.

The packs are offered in a choice of 3 power ratings, with non-concussive or mixer tap.

NON-CONCUSSIVE (NC) PACK

- ES instantaneous water heater
- Non-concussive single outlet tap
- 50cm braided hose, for connection to heater
- 50cm braided hose, for connection to tap

(Isolating valve NOT supplied)



Product Code	Тар Туре
ES3/NC	Non-concussive
ES4/NC	Non-concussive
ES6/NC	Non-concussive
ES3/MT	Single lever mixer
ES4/MT	Single lever mixer
ES6/MT	Single lever mixer
ZL018	







SINGLE LEVER MIXER TAP

MIXER TAP (MT) PACK

- ES instantaneous water heater
- Single lever mixer tap complete, with braided hoses, for connection to tap
- 50cm braided hose, for connection to heater
- Non return valve, for hot supply to tap
- Flow rate adjuster, for cold supply to tap
- T piece connector

(Isolating valve NOT supplied)



Rating kW @ 230V	*38°C Max Flow rate litres/min
2.8	1.5
4.4	2.4
5.5	3.0
2.8	1.5
4.4	2.4
5.5	3.0

Matching non-concussive cold tap

* At 230V and 12oC supply temperature

ZIP INLINE CEX®

OVER AND UNDER-SINK ELECTRONIC INSTANTANEOUS WATER HEATERS FOR SINGLE OR MULTIPLE OUTLETS

The Zip InLine CEX instant water heaters are the smart solution for energy-efficient hot water supply for single or multiple outlets. The units heat the water only when it is needed – directly at the tap. The compact unit allows for space-saving installation under the sink, with optional wireless remote control, for convenient temperature adjustment. This avoids water line and heat losses. The desired temperature can be pre-set efficiently and precisely.





ACCESSORIES (see page 24)



OPTIONAL WIRELESS Control



CEX BENEFITS

- Flow rate up to 5 litres/minute*, to supply one or more outlets
- Power rating can be set on installation to 6.6kW or 8.8kW @230V
- Available for installaton over-sink (CEX-0), or under-sink (CEX-U)
- Bare wire elements, for fast heat-up
- Zero standing heat loss
- Provides a constant supply of hot water
- Heating power electronically adjusted to compensate for variable inlet pressure and temperature
- Suitable for use with pre-heated water from renewable heat source – maximum inlet temperature of 70°C
- Outlet temperature, user adjustable, between 20°C and 55°C, with two programmable settings
- Optional remote control handset available order code ZL016

* At 6 bar water pressure



ZIP INLINE CEX®



TECHNICAL DATA

MODEL	CEX-O Oversink	CEX-U Undersink
Electrical supply	1/N/PE ~230V	
Maximum inlet pressure	1 MPa (10 bar)	
Recommended Minimum Pressure	0.2 MPa	(2 Bar)
Capacity	0.3 li	itres
Element Type	Bare	Wire
Nominal power rating @230V (KW)	6.6 /	/ 8.8
Nominal current @ 230V (A)	29	38
Temperature adjustment	20°C to	o 55°C
Maximum inlet temperature	70	°C
ERP Rating	A	4
Factory flow setting at 3 bar	2.0 l/min	
Maximum temperature increase @ 230V and a flow rate of:	6.6 KW	8.8KW
2.5 l/min	38°C	50°C
3.0 l/min	31°C	42°C
3.5 l/min	27°C	36°C
4.0 l/min	24°C	31°C
4.5 l/min	21°C	28°C
5.0 l/min	19°C	25°C
N.B. Temperature increase + cold water inlet temperature	= maximum hot water tempera	ature
Required specific water resistance @ 15°C	→1100 0	ohm.cm
Switch on flow rate	2.0 l/min	
Maximum flow rate	5.0 l/min	
Filled weight	2.7 kg	
Dimensions (H x W x D)	312mm x 177mm x 108mm	
Water connections	½" BSP	
Protection class	IP25	IP24

DESCRIPTION

- Provides a constant supply of hot water, to on or more outlets
- Regulates power consumption electronically, depending on supply water temperature and flow rate, to achieve the required outlet temperature
- Power rating can be selected at the time of installation
- Bare wire heating element ensures fast heat up times
- Required outlet temperature can be set via two touch sensitive keys, between 20°C to 55°C with digital display
- Enables selection of two pre-programmed temperature settings
- Visible indicator of when heating power available is unable to achieve required temperature, at the selected flow rate
- Suitable for use with pre-heated water from a renewable heat source – maximum inlet temperature of 70°C
- Optional wireless control (Code ZL016)

LOCATION

The heater must be installed in a frost free environment. It should be located as close as possible to the outlet, to minimise heat loss (recommended maximum 2 metres).

Complies with IP25 for oversink and IP24 for undersink and may be installed in Zone 1.

PLUMBING

The appliance is intended for connection to a potable mains water supply. Hot and cold connecting pipes should be WRAS approved and of copper or steel construction.

Minimum flow rate of 2.0 litres/min. Should be installed by a suitably qualified person.

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ERP RATING

Class A (see page 11)

ELECTRICAL

The heater must be earthed and connected to the mains supply, through an isolation switch having contact separation of at least 3mm in all poles and protected by a suitably rated circuit breaker. The connection cable must be in accordance with the maximum power rating of the appliance and the specific requirements of the site. Installaton must be in accordance with current IEE regulations.

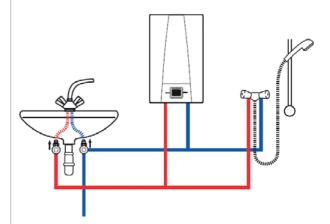
APPROVALS

WRAS and VDE approved, CE endorsed.

WARRANTY

12 months on-site parts and labour.

TYPICAL INSTALLATION



Please note:

for showers a suitable shower head such as Zip ZL006 or ZL007 must be used

ZIP INLINE DEX[®] / DBX[®]

INSTANTANEOUS WATER HEATERS FOR HANDWASHING, SINKS, SHOWERS AND BATHS

Zip InLine instant water heaters are suitable for every kind of bathroom. Whether on the wall at eye level, unobtrusive at the lower wall level for even shorter water lines, concealed in bathroom furniture or behind an access panel – the units provide hot water convenience for washbasins, showers and even bathtubs.



ACCESSORIES (see page 24)



OPTIONAL WIRELESS Control



DEX/DBX BENEFITS

- Provide a constant supply of hot water, to one or more outlets
- Regulate power consumption electronically, depending on supply water temperature, pressure and flow rate, to maintain set temperature
- Bare Wire heating systems for fast response and energy efficient delivery of hot water

DBX

• Outlet temperature factory set to 50°C, installer adjustable from 30°C to 60°C.

DEX

- The required outlet temperature can be set, via two touch sensitive membrane keys, within the range 20°C to 60°C (20°C to 55°C, for DEX12) with digital display of the selected temperature.
- Power rating can be selected at the time of installation.
- Enables selection of two pre-programmed temperature settings.
- Provides visible indication when the heating power available is unable to achieve the required temperature at the selected flow rate.
- Maximum inlet temperature of 70°C is suitable for use with pre-heated water from solar heating systems. (Not DEX12)



ZIP INLINE DEX[®] / DBX[®]



TECHNICAL DATA

MODEL	DEX	X12	DEX	DBX18	DBX21	DBX24	DBX27
Electrical supply	1/N/PE ~230V		_	3/PE380-400			3/PE400
Maximum inlet pressure				1 MPa	(10 bar)		
Recommended Minimum Pressure				0.2 MPa	0.2 MPa (2 Bar)		
Capacity				0.4 l	itres		
Element Type				Bare	Wire		
Nominal power rating @230V (KW)	8.8	/11	18-27	18	21	24	27
Nominal current @ 230V (A)	38,	/48	26/39	26	30	35	35
Temperature adjustment	20°C t	o 55°C	20°C to 60°C	20°C to 60°C	20°C to 60°C	20°C to 60°C	20°C to 60°C
Maximum inlet temperature	25	°C	70°C	30°C	30°C	30°C	30°C
ERP Rating					4		
Minimum Flow Rate	2.5 l/min						
Maximum Flow Rate	5.0 L	/min	8.0 l/pm	7.0 l/pm	8.0 l/pm	8.0 l/pm	9.0 l/pm
Maximum temperature increase with a flow r	ate of:						
	8.8kW	11kW					
2.5 l/min	50°C	62 °C					
3.0 l/min	42 °C	52 °C					
4.0 l/min	31 °C	39 °C					
5.0 l/min	25 °C	31 °C	51-60 °C	51 °C			
6.0 l/min			43-57 °C	43 °C	50 °C	57 °C	
7.0 l/min			37-55 °C	37 °C	43 °C	49 °C	55 °C
8.0 l/min			32-48 °C		38 °C	43 °C	48 °C
N.B. Temperature increase + cold water inlet	tempe	erature	= maximum	n hot water t	emperature		
Required specific water resistance @ 15°C	→1300	ohm.cm	→1100 ohm.cm		→1300	ohm.cm	
Filled weight	3.7 kg						
Dimensions (H x W x D)	466mm x 231mm x 97mm						
Water connections	1⁄2" BSP						
Protection class	IP25						

DESCRIPTION

- Provides a constant supply of hot water, to or or more outlets
- Regulates power consumption electronically depending on supply water temperature and flow rate, to achieve the required outlet temperature
- Power rating can be selected at the time of installation
- Bare wire heating element ensures fast heat times
- Required outlet temperature can be set, via touch sensitive keys, between 30°C to 60°C v digital display
- Enables selection of two pre-programmed temperature settings
- Visible indicator of when heating power available is unable to achieve required temperature at the selected flow rate
- Suitable for use with pre-heated water renewable heat source – maximum inlet temperature of 70°C
- Optional wireless control (Code ZL017)

LOCATION

The heater must be installed in a frost free environment. It should be located as close as possible to the outlet, to minimise heat loss (recommended maximum 2 metres).

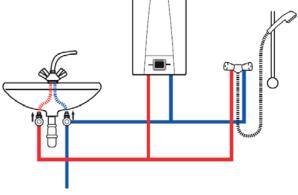
Complies with IP25 for oversink and IP24 for undersink and may be installed in Zone 1.

PLUMBING

The appliance is intended for connection to a potable mains water supply. Hot and cold connecting pipes should be WRAS approved and of copper or steel construction.

Minimum flow rate of 2.0 litres/min. Should be installed by a suitably qualified person.

	ERP RATING
ne	Class A (see page 11)
/,	ELECTRICAL
t up two with	The heater must be earthed and connected to the mains supply, through an isolation switch, having contact separation of at least 3mm in all poles and protected by a suitably rated circuit breaker. The connection cable must be in accordance with the maximum power rating of the appliance and the specific requirements of the site. Installaton must be in accordance with current IEE regulations.
	APPROVALS
	WRAS and VDE approved, CE endorsed.
	WARRANTY
	12 months on-site parts and labour.
	TYPICAL INSTALLATION



ACCESSORIES











SHOWER HAND SET

ZL007

TAP SPRAY NOZZLE ZL002 / ZL003

TAP AERATOR NOZZLE SHOWER HAND SET ZL008 / ZL004 / ZL005 ZL006

TOUCH-FREE TAPS SUITABLE FOR USE WITH THE ZIP INLINE RANGE









LONG REACH BASIN / SINK TAP TF001 & TF002



TUBULAR WALL MOUNTED TAP TF005 & TF006



PILLAR TAP TF009

NON-CONCUSSIVE TAP

OTHER ACCESSORIES SUITABLE FOR USE WITH THE ZIP INLINE RANGE









REMOTE CONTROL ZL016 - CEX

ZL017 – DEX

INSTALLATION FRAME ZL020 -DEX / DBX

ZLOO1 CONVERSION KIT DEX / DBX

SINGLE LEVER MIXER TAP

APPLICATION & ACCESSORY GUIDE



THREE PHASE (all flow rates at 400V with 12°C supply temperature)

Applio	cation	DBX18	
		18kW	
Handwash @ 38°C	1 basin	8.0 •	
	2 basins	4.0 •	
	3 basins	2.7 •	
Kitchen sink @ 50°C	1 sink	6.8 •	
	2 sinks	3.4 🔹	
Shower @ 38°C	1 shower	8.0 •	
	2 showers	4.0 •	
Bath @ 38°C	1 basin	8.0 •	

REMOTE CONTROL

TF100 -

ES3 / ES4 / ES5

RECOMMENDED ACCESSORIES

- SPRAY NOZZLE INCLUDED • SPRAY NOZZLE ZLOO2/003
- AERATOR NOZZLE INCLUDED
- AERATOR NOZZLE ZL004/005/015
- NO ACCESSORIES REQUIRED
- HANDSET ZL006 / ZL007



DBX21	DBX24	DBX27
21kW	24kW	27kW
8.0 •	8.0 •	8.0 •
4.0 •	4.0 •	4.0 •
2.7 •	2.7 •	2.7 •
6.8 •	6.8 •	6.8 •
3.4 •	3.4 •	3.4 🔹
8.0 •	8.0 •	8.0 •
4.0 •	4.0 •	4.0 •
8.0 •	8.0 •	8.0 •

ZIP SERVICE

Whichever Zip InLine product you choose, you can be quite certain of one thing, nobody offers you a more advanced instantaneous water heating system for your project than Zip. Today thousands of people in the UK use Zip instantaneous water heating systems each day in public buildings, hospitals, schools, offices and factories.

Zip remains in the forefront of instantaneous water heating development in conjunction with our partners in Germany, Clage. You can be confident that the Zip InLine you have chosen is as up to date as technology will allow.

PROMPT SERVICE

Zip InLine is better designed, better built and better backed than any comparable water heating product and is designed to give many happy years of service.

However, like any such system, it may need attention from time to time to keep it in top operating condition. To provide prompt service in any location, Zip has established a team of national, fully trained, directly employed, service engineers covering the whole of the UK – for installation, repairs or routine periodic maintenance.



TRAINING

If you are currently specifying, installing or maintaining Zip InLine instantaneous hot water products the Zip Training Team are available to provide invaluable training, either on site or in one of our training centres.

- Hands-on practical sessions, designed to directly assist those involved regularly in installing and maintaining Zip products, by showing the most efficient and effective way to quickly set-up and commission, or where necessary, the 'tricks of the trade' solution to maintenance and problem solving.
- Seminar based training, for those responsible for the specification of instant boiling, chilled or hot water products in commercial and residential locations.
- Zip remains the world leader in water provision, setting the pace in time-saving, water-conserving and user-safety technology.
- WRAS approved and RoHS compliant





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WE HAVE A LARGE TEAM OF FULLY-TRAINED ZIP FIELD SUPPORT STAFF COVERING THE UK, WITH OVER 60 ENGINEERS.

RXI5 UEM



IT'S WATER. REFRESHED.

Visit zipwater.com/uk call 0345 6 005 005 or email customerservice@zipindustries.co.uk for further information

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