



Water Heaters 4U



The Zip InLine® range
Electronic instantaneous
water heaters



It's water. Refreshed.

06



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.



09



Easy installation

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

12



Zip InLine ES®

Compact electronically controlled instantaneous water heater for hand washing.

08

Zip InLine CEX®

Over and under-sink options for single or multiple outlets.

Innovative tech

All InLine products feature bare wire technology, bringing all the benefits of control, comfort and efficiency.



Zip InLine DEX®/DBX®

Generates large volumes of hot water for a variety of applications.



Introducing Zip InLine

The most energy efficient hot water solution on the market

Zip is a 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 designed specifically for the specifier, installer and end-user. With outstanding support from our nationwide team, you're in good hands should anything need replacing.

Featured product
Zip InLine CEX



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.

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

Featured product
Zip InLine ES

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

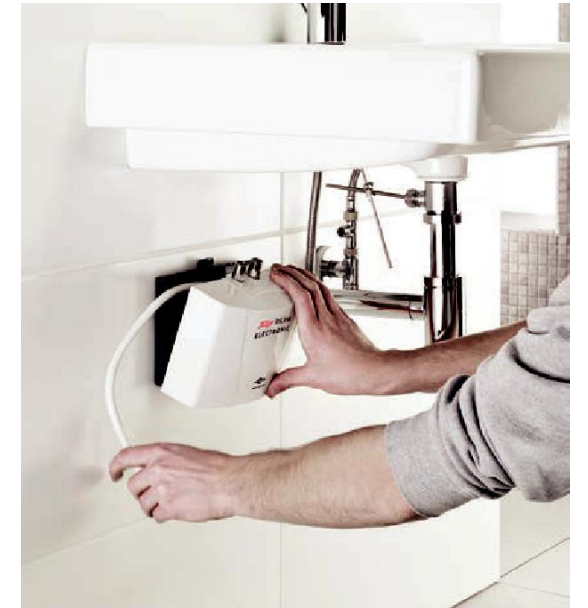
23%

More efficient than stored hot water



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.



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.

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 it to fit neatly and unobtrusively in any location.



Advanced electronic control

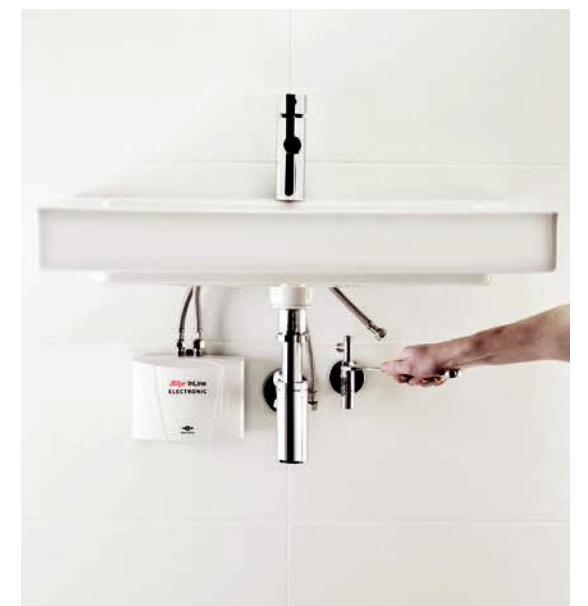
Power to the heating element is regulated to ensure that the required outlet temperature is precisely achieved,* regardless of the incoming water temperature and pressure.

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.



*Subject to sufficient power being available to achieve the required temperature and flow rate



Energy efficiency

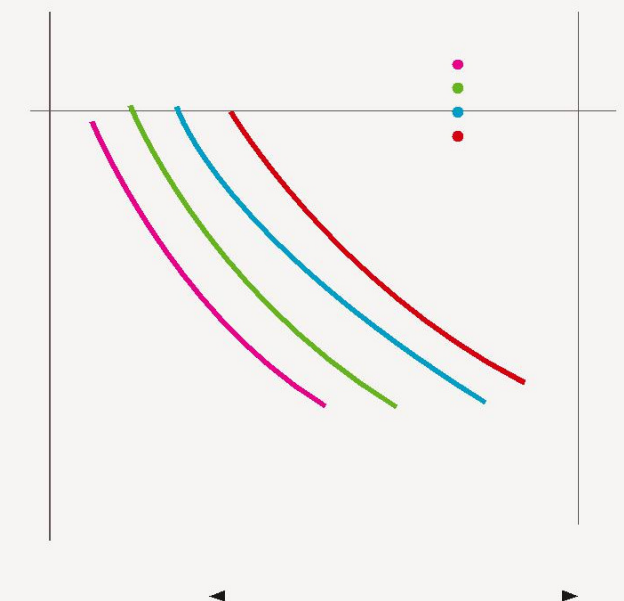
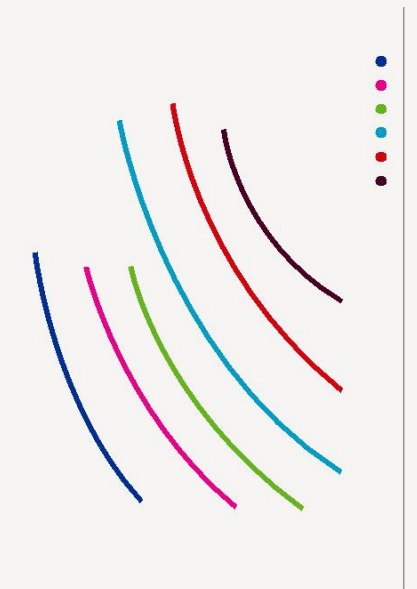
Energy-related Products (ErP) directive

The Ecodesign of Energy Related Products Directive 2010/125/EC is a framework directive that 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.



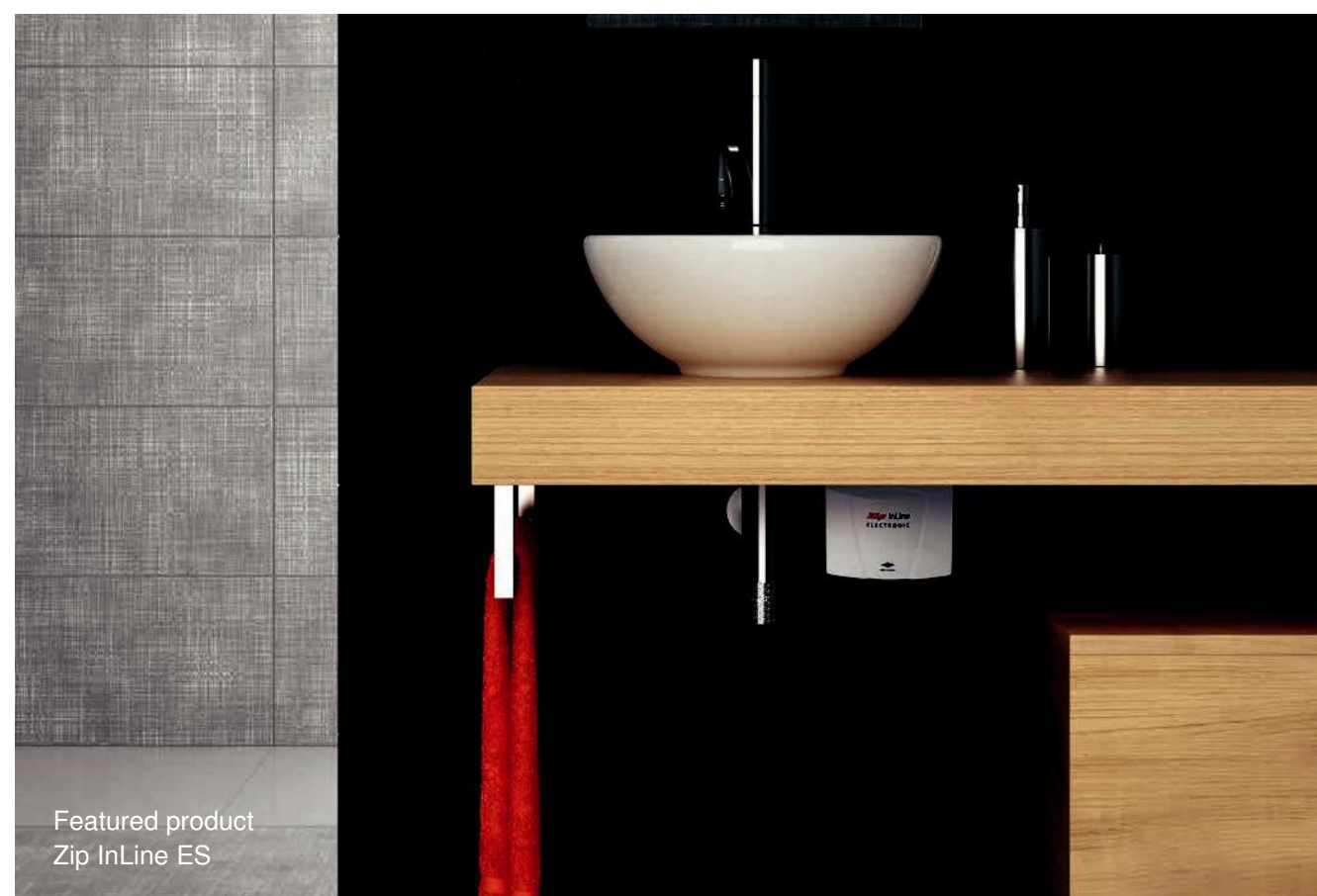


Zip InLine ES®



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.



Featured product
Zip InLine ES

ES benefits

- The most energy efficient way to directly heat water, electrically
- Zip InLine ES provides instant hot water for hand washing
- Heating power is controlled electronically to maintain set temperature
- Sophisticated electronics adjusts power applied to compensate for inlet pressure and temperature variations
- 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 fast heat up
- Double pole over-temperature protection
- Safe operation without the need for a thermostatic blending valve

Location

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.

Plumbing

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.

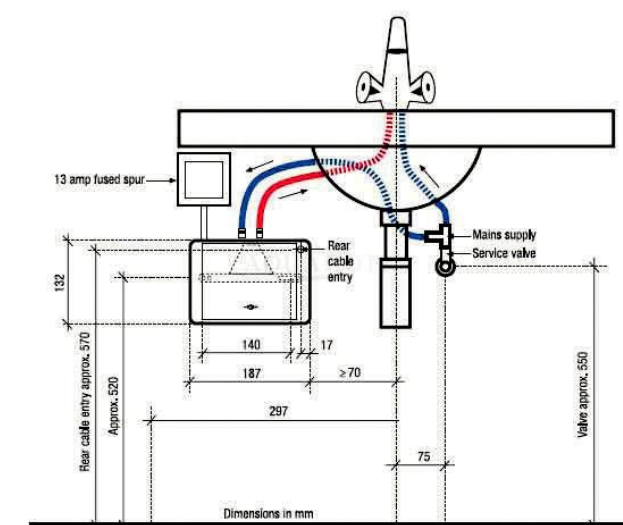
Approvals

WRAS and VDE approved, CE endorsed.

Warranty

12 months on-site parts and labour.

Typical installation — unvented



Accessories (see page 24)



Optional wireless control

Zip InLine ES[®]

Available in a choice of three power ratings

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	A	A	A
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	>1100 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		½" BSP	
Protection class		IP25	
Application guide lines		See pages 26-27	



Instantaneous hand wash packs
Complete with heater, tap and 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 tap

Single lever 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)



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)



Product code	Tap type	Rating kW @ 230V	-38°C Max flow rate litres/min
ES3/NC	Non-concussive	2.8	1.5
ES4/NC	Non-concussive	4.4	2.4
ES6/NC	Non-concussive	5.5	3.0
ES3/MT	Single lever mixer	2.8	1.5
ES4/MT	Single lever mixer	4.4	2.4
ES6/MT	Single lever mixer	5.5	3.0
ZL018	Matching non-concussive cold tap		

* At 230V and 12°C 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.



Featured product
Zip InLine CEX-U

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 installation over-sink (CEX-O), 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

Under-sink



Over-sink





Zip InLine CEX[®]

Available in a choice of two power ratings

Technical data

Model	CEX-O Over-sink	CEX-U Under-sink
Electrical supply		1/N/PE ~230V
Maximum inlet pressure		1 MPa (10 bar)
Recommended Minimum Pressure		0.2 MPa (2 Bar)
Capacity		0.3 litres
Element Type		bare wire
Nominal power rating @230V (KW)		6.6 / 8.8
Nominal current @ 230V (A)	29	38
Temperature adjustment		20°C to 55°C
Maximum inlet temperature		70°C
ERP Rating		A
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 temperature		
Required specific water resistance @ 15°C	>1100 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 one 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 over-sink and IP24 for under-sink 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

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. Installation must be in accordance with current IEE regulations.

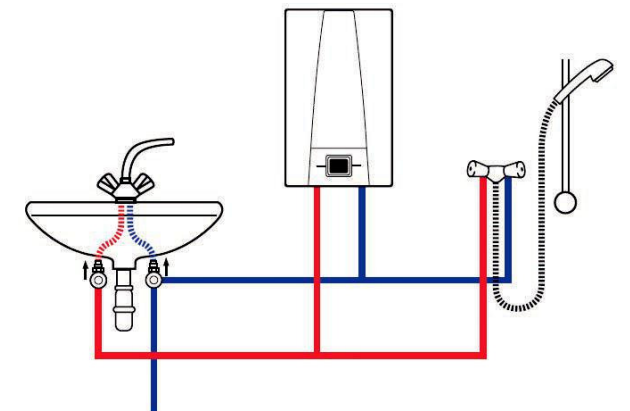
Approvals

WRAS and VDE approved, CE endorsed.

Warranty

12 months on-site parts and labour.

Typical installation



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 hand washing, 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.



Featured product
Zip InLine DEX

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)

DEX



DBX





Zip InLine DEX®/DBX®

Available in a choice of five power ratings

Technical data

Model	DEX12	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 (2 Bar)					
Capacity	0.4 litres					
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 to 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	A					
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 rate 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
8.0 l/min			32-48 °C	38 °C	43 °C	48 °C
N.B. Temperature increase + cold water inlet temperature = maximum hot water temperature						
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	½" BSP					
Protection class	IP25					

Description

- Provides a constant supply of hot water, to one 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 30°C to 60°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 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 over-sink and IP24 for under-sink 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

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. Installation must be in accordance with current IEE regulations.

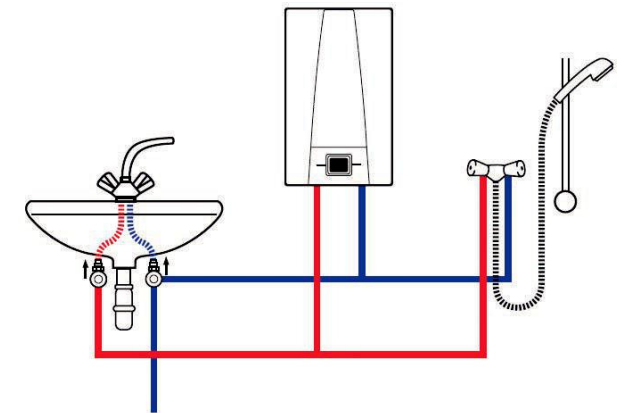
Approvals

WRAS and VDE approved, CE endorsed.

Warranty

12 months on-site parts and labour.

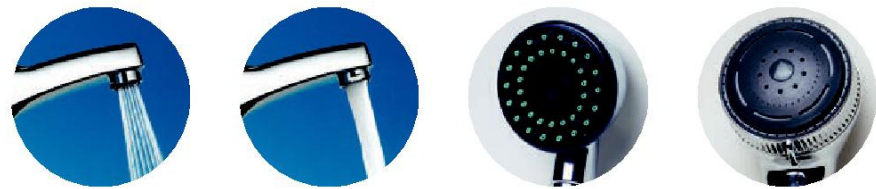
Typical installation



Accessories

Application and accessory guide

Optimum performance suitable for use with the Zip InLine range



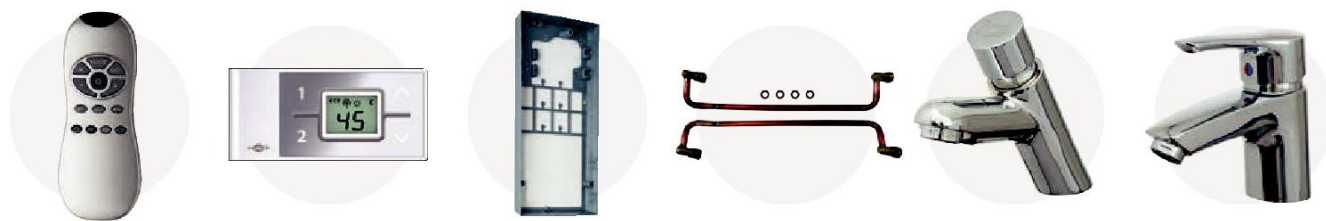
Tap spray nozzle ZL002 / ZL003 Tap aerator nozzle ZL008 / ZL004 / ZL005 Shower hand set ZL006 Shower hand set ZL007

Touch-free taps suitable for use with the Zip InLine range



Long reach basin / sink tap TF001 & TF002 Standard reach basin / sink tap TF003 & TF004 Tubular wall-mounted tap TF005 & TF006 Tubular deck-mounted tap TF007 & TF008 Pillar tap TF009

Other accessories suitable for use with the Zip InLine range



Remote control TF100 – ES3 / ES4 / ES5 Remote control ZL016 – CEX ZL017 – DEX Installation frame ZL020 – DEX / DBX ZL001 Conversion kit DEX / DBX Non-concussive tap Single lever mixer tap

Recommended accessories

- Spray nozzle included
- Spray nozzle z1002/003
- Aerator nozzle included
- Aerator nozzle z1004/005/015
- No accessories required
- Handset z1006 / ZL007

Single phase (all flow rates at 230V with 12°C supply temperature)

Application		ES3 2.8kW	ES4 4.4kW	ES6 5.5kW	CEX set @ 6.6kW	CEX set @ 8.8kW	DEX12 11kW
Hand wash @ 38°C	1 basin	1.5	2.4	3.0	3.6	4.8	5.0
	2 basins					2.4	2.5
	3 basins						1.7
Kitchen sink @ 50°C	1 sink					3.3	4.1
	2 sinks						
Shower @ 38°C	1 shower					4.8	5.0
	2 showers						
Bath @ 38°C	1 basin						

Three phase (all flow rates at 400V with 12°C supply temperature)

Application		DBX18 18kW	DBX21 21kW	DBX24 24kW	DBX27 27kW
Hand wash @ 38°C	1 basin	8.0	8.0	8.0	8.0
	2 basins	4.0	4.0	4.0	4.0
	3 basins	2.7	2.7	2.7	2.7
Kitchen sink @ 50°C	1 sink	6.8	6.8	6.8	6.8
	2 sinks	3.4	3.4	3.4	3.4
Shower @ 38°C	1 shower	8.0	8.0	8.0	8.0
	2 showers	4.0	4.0	4.0	4.0
Bath @ 38°C	1 basin	8.0	8.0	8.0	8.0



Zip service

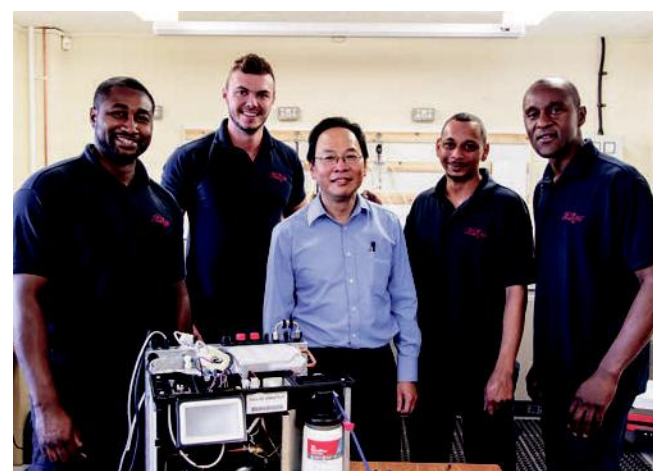
Whichever Zip InLine product you choose, you can be quite certain of one thing, nobody offers you a more advanced instantaneous water heating system for your project than Zip. Today thousands of people in the UK use Zip instantaneous water heating systems each day in public buildings, hospitals, schools,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



We have a large team of fully-trained Zip field support staff covering the UK, with over 90 engineers.





Water Heaters 4U

Make life simple

Order online:

www.waterheaters4u.co.uk



It's water. Refreshed.

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