



The Zip InLine[®] range
Electronic instantaneous
water heaters





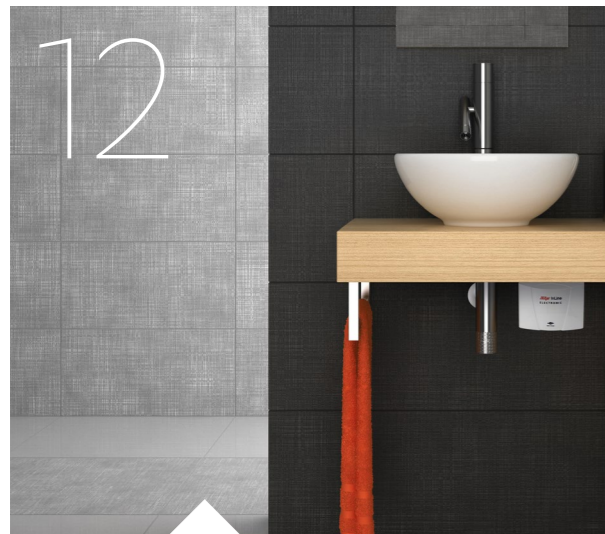
Why Zip?

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 stored water heaters.



Zip InLine ES®

Compact electronically controlled instantaneous water heater for hand washing.



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.

Large volume applications

Generate large volumes of water instantly with the DEX12NEXT and the DCXNEXT

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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.

Powered by electricity, our comprehensive InLine range can calculate and instantly deliver the precise water temperature required, meaning less water is wasted and time is saved. On top of this, the full InLine range is installed at the point of use, which ensures that water is not heated and transported over long distances, resulting in significant energy savings.

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

Why Zip InLine instantaneous?

Zip InLine water heaters are the most energy efficient means of directly heating water electrically. Using the very latest 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 which delivers significant energy savings due to less waste and minimal transportation.



Unrivalled energy efficiency – no standing heat loss



Instant hot water on demand



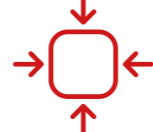
Sophisticated electronic control



Unlimited hot water supply



Easy to install



Neat, compact design

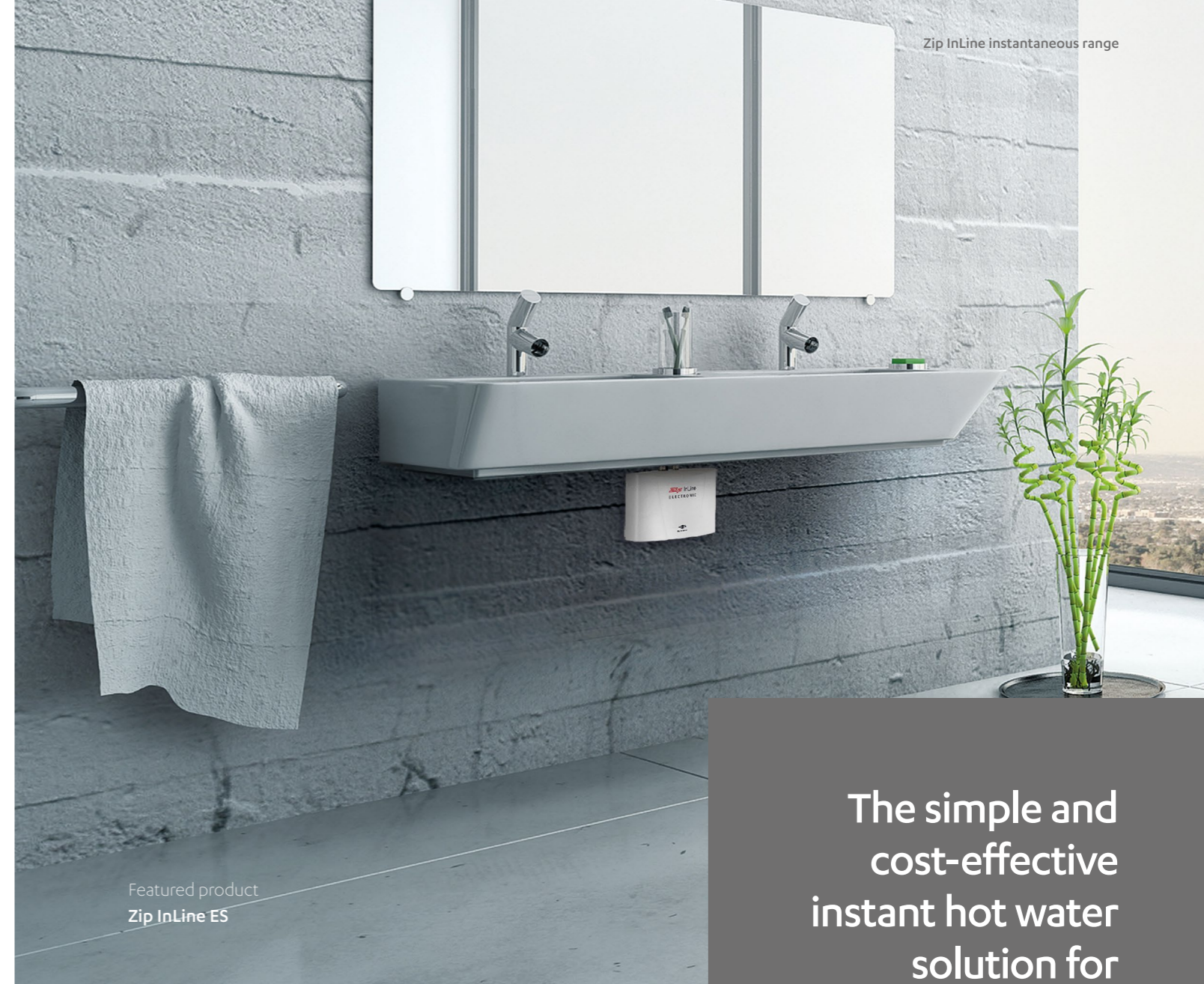


Minimal limescale

A comparison between Zip Inline and stored water heaters

Appliance	Zip InLine 2.8kW instantaneous water heater		5 litre stored water heater	
Watts:	2.8kW		2kW	
Time in use to deliver required water:	4 minutes	0.19kWh per day	25 minutes	0.73kWh per day
Pence per unit:	10	£0.02 running cost	10	£0.07 running cost
Running cost for 365 days:	£6.81	68 kWh/annum	£26.77	268 kWh/annum

*Example shown is based on an installation where the application was a handwash basin. Savings vary depending on the application and usage



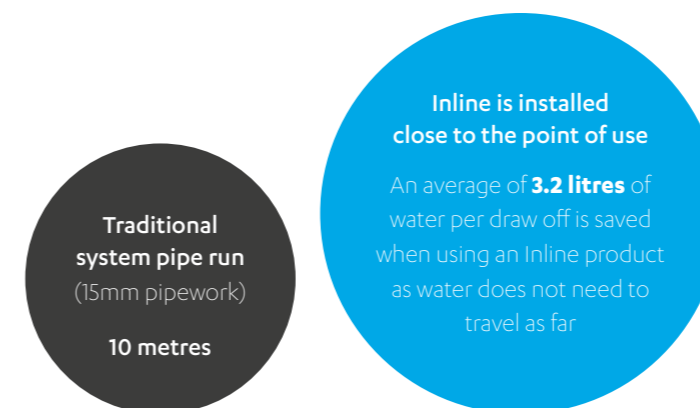
Featured product
Zip InLine ES

The simple and cost-effective instant hot water solution for your project

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:



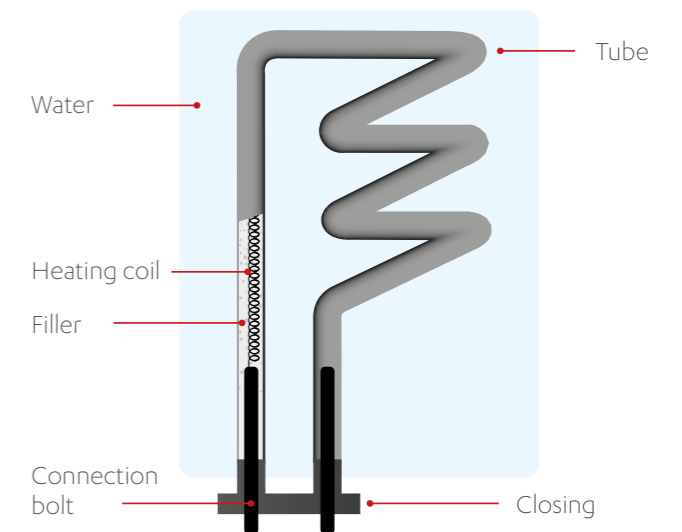
Use up to **85%** less energy than stored hot water

Innovative bare wire technology



Traditional heating system

- The heating coil is located in a copper pipe, which transfers energy to the water
- There is a large mass of heating element, therefore a high heat capacity and sluggish power change



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.

The fastest heat up times

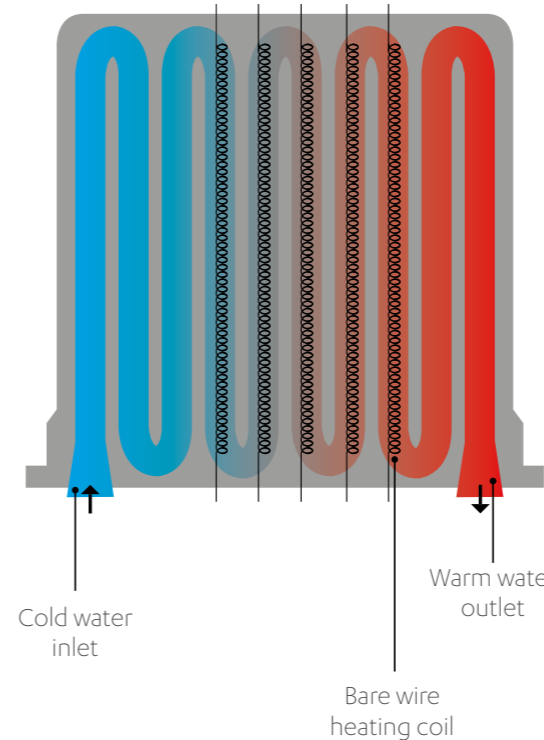
Unlike traditional instantaneous water heating products, where the heating element is enclosed in a heat exchanger, bare wire products have the element directly immersed in the water flow path. This allows heat to be safely transmitted directly to the water, giving significantly greater efficiency and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

Minimal Limescale

Bare wire heating also keeps limescale to a minimum due to its limescale repelling heating spirals. This is particularly important as just 2mm of limescale thickness can reduce water heater efficiency by 15%.



Zip's InLine bare wire heating system

- The heating coils lie directly in the water and transfers almost 100% of the energy
- There is a minimum mass of heating element, therefore a minimum heat capacity and dynamic power change. It will react in seconds when parameters change (temperature, flowrate etc.)
- Users have precise control of power consumption
- Insulating inlet and outlet sections prevent fault currents or high contact voltages

Easy installation

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



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.

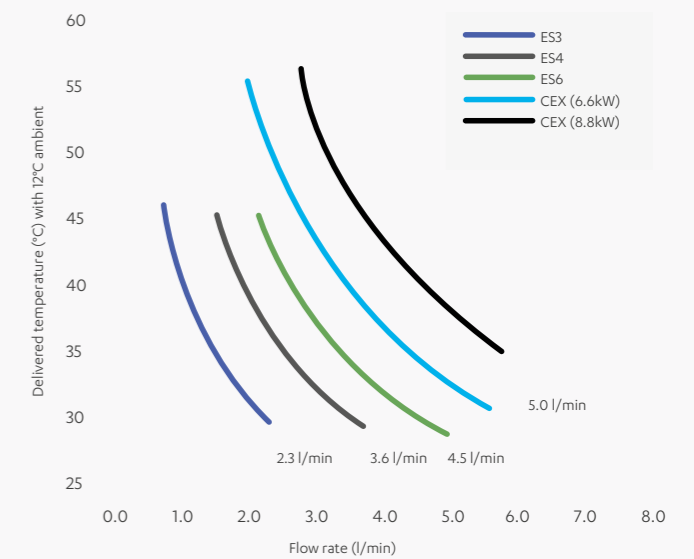
How does the rating work?

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.











Single phase



Zip InLine Typical applications

The Zip InLine range can be installed in the following:

				
Handwash basin	Kitchen sink	Cleaners sink*	Shower	Studio apartment**

Category	Product code					
ES	ES3	x1				
	ES4	x1				
	ES6	x1				
CEX	CEX-O 6.6kW	x2				
	CEX-O 8.8kW		•			
	CEX-U 6.6kW	x2				
	CEX-U 8.8kW		•			
DEX	DEX12Next 8.8kW				•	
	DEX12Next 11.5kW				•	
DCX	DCXNext 18kW				•	
	DCXNext 21kW				•	
	DCXNext 24kW					•
	DCXNext 27kW					•

*A cleaners sink refers to a low mounted sink that can be used to fill buckets.

**A studio apartment refers to an apartment that has a handwash basin, kitchen sink and shower but no bath.



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

Applications

Product code	Applications	Power rating kW @230V	38°C max flow rate litres per min	ErP rating	W x D x H (mm)
ES3		2.8	2	A	186x87x135
ES4		4.4	2.5	A	186x87x135
ES6		5.9	3.3	A	186x87x135

ES benefits

- Compact electronically controlled instantaneous water heater for hand washing.
- The most energy efficient way to directly heat water electrically - affordable and reliable.
- Stainless steel bare wire heating element for quick water heat up time.
- Innovatively designed system that heats water automatically as it flows through.
- No standing heat loss - the InLine ES has unrivalled energy efficiency.
- Sophisticated electronics monitor outlet temperature and adjust power to ensure a consistent temperature.

Operation

Heating power is switched on automatically once the minimum flow rate is exceeded.

Power rating

- ES3: 2.8kW @ 230V
- ES4: 4.4kW @ 230V
- ES6: 5.5kW @ 230V

Heating system

Bare wire heating system for fast response.

Product selection

Instantaneous water heating is the most efficient available, however, delivered water temperature is dependent on local incoming water temperature and supply voltage. Quoted performance assumes 12°C incoming water temperature and 230V supply.

Temperature setting

Temperature and flow adjustable at time of installation between 1.2-1.7 adjustable between 30-43°C.

Accessories (see page 26)



Optional wireless control

Safety

Water temperature electronically controlled to maintain factory setting of 38°C. Mechanical safety thermal limiter to prevent over temperature heating.

Case

Impact resistant plastic.

Plumbing

- The system is intended for connection to a wholesome water supply. It should be installed by a suitably qualified person.
- Minimum water pressure of 2 bar.
- Please note it is not recommended for use with thermostatic mixing valves or taps.

ErP rating

Class A

IP rating

IP25

Warranty

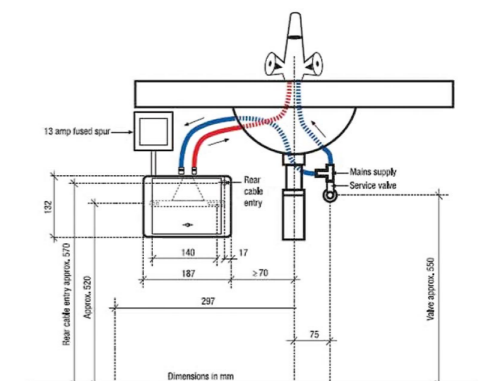
One year warranty.

Location

The system must be installed in a frost-free environment recommended to be positioned within 0.5 metres of the outlet to minimise heat loss.

Electrical

- Installation must comply with current IEE regulations.
- A one metre power cable is provided.
- Product must be protected by an RCD.
- ES3: Connect to a 13 amp fused spur.
- ES4: Connect to a 20a double pole switched fused spur.
- ES6: Connect to a 24a double pole switched fused spur.



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 guidelines	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 three 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

Applications

Product code	Applications	Power rating kW @230V	Max flow rate litres per min	Temperature range (°C)	ErP rating	W x D x H (mm)
CEX-U	 /  x2	6.6/8.8	5	20-55	A	177x108x294
CEX-O	 / 	6.6/8.8	5	20-55	A	177x108x294

CEX benefits

- The most energy efficient way of directly heating water electrically - affordable and reliable.
- Highly efficient bare wire heating system with zero standing heat loss and quick heat up time of less than two seconds, supporting energy efficiency.
- Provides a continuous* supply of hot water at exactly the temperature selected.
- Flow rate up to five litres a minute** to supply one or more outlets for multiple use.
- Available for installation oversink (CEX-O) or undersink (CEX-U) to suit your needs.
- Heating power electronically adjusted to compensate for variable inlet temperatures.
- Suitable for use with pre-heated water from renewable heat sources - maximum inlet temperature of 70°C.
- Outlet temperature is user adjustable between 20°C and 55°C, with two programmable settings.
- Optional wireless control handset available - order code ZL017.

Power rating

6.6kW or 8.8kW - selected at installation.

Heating system

Bare wire system.

ErP rating

Class A.

IP rating

- Oversink IP25.
- Undersink IP24.
- Both suitable for zone 1.

Accessories (see page 26)



Optional wireless control

Electrical

The system 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 protected by a suitably rated circuit breaker. The cross sectional area of the connection cable must be in accordance with the power rating of the system. The installation must be in accordance with current IEE regulations.

Warranty

One year warranty.

Location

The system must be installed in a frost-free environment. It should be positioned within two metres of the outlet to minimise heat loss.

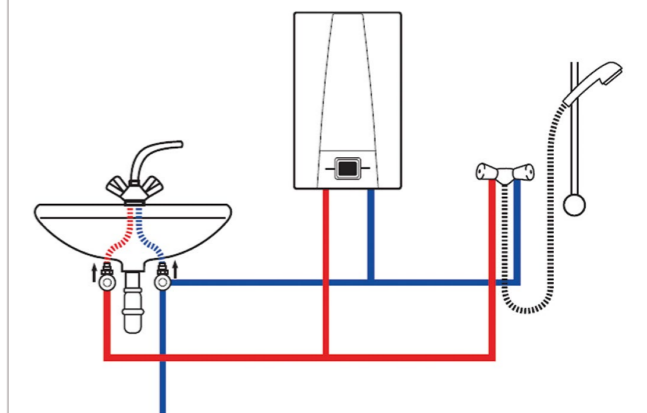
Safety

The InLine CEX has a thermal over temperature cut out and pressure over limit cut out and flow switch with minimum flow for switch on.

Plumbing

- The system must be connected to a wholesome water supply. The specific water resistance of the supply must not fall below the minimum specified on the rating plate.
- Minimum flow rate of 2 litres a minute and minimum water pressure is 2 bar. It should be installed by a suitably qualified person.
- Please note it is not recommended for use with thermostatic mixing valves or taps.

Typical installation



Please note:

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

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




Zip InLine DEX12Next

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.



Applications

Product code	Applications	Power rating kW @230V	Max flow rate litres per min	Temperature range (°C)	ErP rating	W x D x H (mm)
DEX12Next		8.8/11.5	5	20-60	A	239x96x468

Technical Information

Temperature adjustment range	20-60°C
Maximum inlet temperature	70°C
Minimum flow rate (litres/min)	1.5
Maximum flow rate (litres/min)	5
Pressure loss @ 1.5 l/min	0.08 bar
Pressure loss @ 9 l/min	1.3 bar

DEX12Next

DEX12Next benefits

- The most energy efficient way of directly heating water electrically - affordable and reliable.
- Highly efficient bare wire heating system with zero standing heat loss and quick heat up time of less than two seconds, supporting energy efficiency.
- Provides a continuous* supply of instant hot water at exactly the temperature selected.
- Heating power electronically adjusted to compensate for variable inlet pressure and temperature.
- Maintains precise temperature control despite fluctuations in voltage and water pressure.
- Compact design allows the InLine to fit neatly in any location.
- The required outlet temperature can be set using touch sensitive keys within the range 20°C-60°C, with digital display of the selected temperature.
- Power rating can be selected at time of installation.

Power rating

8.8kW – 11.5kW (single phase).

Heating system

Bare wire system.

ErP rating

Class A.

IP rating

IP25.

Warranty

One year warranty.

Location

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

Safety

The Zip InLine DEX12Next features a thermal over temperature cut out, a pressure over limit cut out and flow switch with minimum flow for switch on.

Plumbing

- The system must be connected to a wholesome water supply. The specific water resistance of the supply must not fall below the minimum specified on the rating plate.
- Minimum flow rate of 1.5 litres a minute and minimum water pressure is 2 bar. It should be installed by a suitably qualified person.
- Please note it is not recommended for use with thermostatic mixing valves or taps.

Electrical

The system 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 protected by a suitably rated circuit breaker. The cross sectional area of the connection cable must be in accordance with the power rating of the system. The installation must be in accordance with current IEE regulations.



Featured product
Zip InLine DEX12Next

*Subject to sufficient power being available to achieve the required temperature and outlet flow under local conditions.


Zip InLine DCXNext

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.



Applications

Product code	Applications	Power rating kW @230V	Max flow rate litres per min	Temperature range (°C)	ErP rating	W x D x H (mm)
DCXNext		18, 21, 24, 27	8	35-55	A	239x96x468

Technical Information

Temperature adjustment range	35-55°C
Maximum inlet temperature	30°C
Minimum flow rate (litres/min)	1.5
Maximum flow rate (litres/min)	8
Pressure loss @ 1.5 l/min	0.08 bar
Pressure loss @ 9 l/min	1.3 bar

DCXNext

DCX benefits

- The most energy efficient way of directly heating water electrically - affordable and reliable.
- Highly efficient bare wire heating system with zero standing heat loss and quick heat up time of less than two seconds, supporting energy efficiency.
- Provides a continuous* supply of instant hot water at exactly the temperature selected.
- Heating power electronically adjusted to compensate for variable inlet pressure and temperature.
- Maintains precise temperature control despite fluctuations in voltage and water pressure.
- Power rating to be selected at the time of installation.
- Compact design allows the InLine to fit neatly in any location.
- Change temperature quickly at the touch of button on the front case for 35°C, 38°C, 42°C, 48°C and 55°C.

Power rating

One adjustable product that caters for 4 power outputs, 18, 21, 24 and 27 kW (three phase).

Heating system

Bare wire system.

ErP rating

Class A.

IP rating

IP25.

Warranty

One year warranty.

Location

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

Safety

The Zip InLine DCXNext features a thermal over temperature cut out, a pressure over limit cut out and flow switch with minimum flow for switch on.

Plumbing

- The system must be connected to a wholesome water supply. The specific water resistance of the supply must not fall below the minimum specified on the rating plate.
- Minimum flow rate of 1.5 litres a minute and minimum water pressure is 2 bar. It should be installed by a suitably qualified person.
- Please note it is not recommended for use with thermostatic mixing valves or taps.

Electrical

The system 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 protected by a suitably rated circuit breaker. The cross sectional area of the connection cable must be in accordance with the power rating of the system. The installation must be in accordance with current IEE regulations.



Featured product
Zip InLine DCXNext

*Subject to sufficient power being available to achieve the required temperature and outlet flow under local conditions.

Accessories

Optimum performance suitable for use with the Zip InLine range



Tap aerator nozzle <5kW
ZL012 / ZL003



Tap aerator nozzle >5kW
ZL004 / ZL035



Shower handset
ZL006



Shower handset
ZL007
Adjustable for flow rates
down to 4.0 ltrs/min

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



Standard reach
basin / sink tap
TF003 - Mains
TF004 - Battery

Other accessories suitable for use with the Zip InLine range



Remote control
TF100 -
ES3 / ES4 / ES6



Non-concussive tap
ZL018 - Cold
ZL019 - Hot



Single lever mixer tap
ZL021



Featured product
Zip InLine CEX



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