

Zip InLine[®] CEX

Electronic instantaneous water heaters



Features & benefits

- Electronically controlled instantaneous electric water heaters for supplying single or multiple outlets
- The most energy efficient way of directly heating water electrically
 - Highly efficient bare wire heating system
 - Zero standing heat loss as no stored water
- Instant hot water
- Provides a constant supply of hot water at exactly the temperature selected
- Heating power electronically adjusted to compensate for variable inlet pressures and temperatures
- Suitable for use with pre-heated water from solar heating systems.

As Zip policy is one of continuous product improvement, changes to specifications may be made without prior notice.

The terms Zip, InLine and CEX are Trademarks

Zip InLine® CEX

Electronic instantaneous water heaters

Description

- Can provide a constant supply of hot water to one or more outlets.

The heating element switches on automatically when the minimum flow rate is exceeded and switches off when flow rate reduces below the minimum.

- Regulates power consumption electronically depending on supply water temperature and flow rate to achieve the required outlet temperature.
- Also regulates power consumption based on outlet temperature to ensure precise temperature control irrespective of fluctuations in voltage and water pressure.
- Power rating can be selected at the time of installation.
- Bare wire heating system ensures fast response for immediate, energy efficient delivery of hot water.
- The required outlet temperature can be set via two touch sensitive membrane keys within the range 30°C to 55°C with digital display of the selected temperature.
- 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.
- Optional wireless control (ZL016) for convenience and concealed installations.

Installation

Location

The appliance must be installed in an environment which is free from frost at all times.

The appliance complies with protection class IP25 for over-sink installation, protection class IP24 for under-sink installation and may be installed in zone 1.

In order to minimise thermal losses, the distance between the appliance and the outlet fitting should be as short as possible. Recommended maximum distance 2 metres.

CEX-U enables installation under-sink, close to the outlet fitting, keeping thermal losses to a minimum.

Plumbing

The appliance is intended for connection to a potable mains water supply. The specific water resistance of the supply must not fall below the minimum specified on the rating plate.

Hot and cold connecting pipes should be WRAS approved and of copper or steel construction. Plastic pipes may only be used if conforming to DIN 16893 Series 2.

Model	CEX-O	CEX-U
Application	Over-sink	Under-sink
Power rating	6.6kW / 8.8kW(1)	
Rated current	29A (6.6kW) / 38A (8.8kW)	
Power supply	1/N/PE 230V~	
Hot water (l/min) Maximum at $\Delta t = 38^\circ\text{C}$	3.6 (6.6kW) / 4.8(2) (8.8kW)	
Rated volume (litres)	0.3	
Rated pressure	1 MPa (10 bar)	
Element type	Bare wire heating system IES	
Required specific water resistance	>1100 Ωcm @ 15°C	
Maximum inlet temperature	70°C	
Switch on flow rate (l/min)	2.0	
Maximum flow rate (l/min)	5.0(2)	
Pressure loss @ 2.5 l/min @ 9.0 l/min	0.2 bar 1.3 bar(3)	
Temperature setting range	30°C – 55°C	
Maximum weight (kg)	2.70	
Dimensions H x W x D (mm)	294 x 177 x 108	
Water connections	½" BSP	
Protection class	IP25	IP24

(1) Power rating selected at time of installation (2) Flow rate limited to achieve optimum temperature rise (3) Without flow regulator

The hot water pipes must be thermally insulated.

Minimum flow rate 2.0 litres/min.

A minimum water pressure of 2 bar is recommended for optimum performance. Maximum flow rate will be achieved at a water pressure of 6 bar.

Should be installed by a suitably qualified installer of electric instantaneous water heaters.

Electrical

The appliance must be earthed and connected to the supply by means of permanent wiring through an isolation switch having a contact separation of at least 3mm on all poles and 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 appliance and the specific requirements of the installation site.

The appliance must be installed in accordance with current IEE regulations.

IP Rating

CEX-O IP25 / CEX-U IP24.
Suitable for installation in Zone 1.

Approvals

- WRAS approved
- VDE approved to the LVD and EMC directives
- CE endorsed

Technical Support

Contact Zip on 0845 6 005 005.

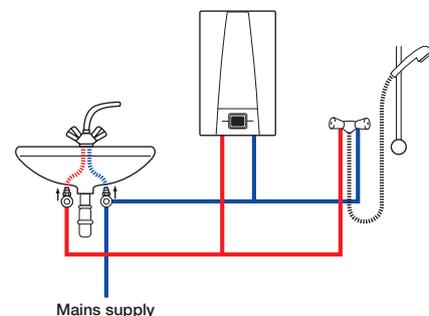
Maintenance

Contact Zip HydroCare on 0845 6 005 005.

Warranty

One-year on site parts and labour.
For full details of the Zip Warranty Scheme visit:
www.zipheaters.co.uk/warranty.

Typical Installation



N.B. Instantaneous water heating is the most energy efficient way of directly heating water electrically, however, the delivered water temperature will be dependant upon the incoming water temperature, supply voltage and selected flow rate.