

## Zip InLine<sup>®</sup> ES

### Electronic instantaneous water heater

Single outlet for hand washing



#### Features

- Compact electronic instantaneous water heater with highly energy efficient bare-wire heating system for economic water supply to a single outlet.
- The innovatively designed appliance heats the water automatically as it flows through, without wasting energy in standby operation.
- The heating power electronically compensates for variable inlet pressures and temperatures.



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

The terms Zip and InLine ES are Trademarks

## Zip InLine® ES

Electronic instantaneous water heaters

Model	ES3	ES4	ES6
Pressure rating	10 bar		
Element type	Bare wire		
Supply voltage	1/N/PE 230 V~		
Nominal power rating @ 230V	2.8kW	4.4kW	5.5kW
Nominal current @ 230V	12A	19A	24A
Temperature adjustment (installer)	30°C - 43°C		
Maximum inlet temperature	70°C		
Factory set temperature	38°C		
Factory set flow rate 38°C	1.5 litres/min	2.4 litres/min	3.0 litres/min
Switch on flow rate	1.2 litres/min	1.5 litres/min	1.5 litres/min
Switch off flow rate	1.0 litres/min	1.3 litres/min	1.3 litres/min
Required specific water resistance @ 15°C	>1100 ohm.cm	>800 ohm.cm	>800 ohm.cm
Capacity	0.2 litres		
Filled weight	1.5 (kg)		
Water connections	1/2" BSP		
Dimensions H x W x D	135mm x 186mm x 87mm		
Protection class (IEC529)	IP25		

All data quoted at nominal supply voltage.

A minimum water pressure of 0.2 MPa (2 bar) is recommended for optimum performance.

The appliance must not be subject to more than 1 MPa (10 bar).

### Optional Touch Free Taps

#### Long reach basin/sink tap

TF001 – Mains powered  
TF002 – Battery powered



#### Standard reach basin/sink tap

TF003 – Mains powered  
TF004 – Battery powered



#### Tubular wall mounted tap

TF005 – Battery powered  
TF006 – Mains powered



#### Tubular deck mounted tap

TF007 – Battery powered  
TF008 – Mains powered



#### Pillar tap

TF009 – Dual powered



#### Remote control TF100



**IMPORTANT** For correct operation of the ES models it is essential that the special tap nozzle supplied with the heater is fitted to the tap spout.

Only taps, such as those indicated above, with removable M22 / 24 nozzles should be used.

### Description

- The ES is designed to provide hot water for handwash in areas where space is limited.
- Heating power controlled electronically for temperature stabilisation.
- Outlet temperature can be preset inside the unit between 30°C and 43°C (factory set at 38°C).
- Flow adjustment control, preset for a temperature increase of 25°C.
- Stainless steel bare-wire heating system for very quick response.
- Double pole thermal cut-out protection.
- Choice of special kits available complete with heater, tap and fittings.
- Supplied with 700mm of pre-wired cable.
- Easy to install with improved wall bracket.

#### Approvals

WRAS approval and CE endorsed.

#### Warranty

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

### Installation

#### Location

The appliance must be installed in a frost free environment. Zip ES products comply with IP24 and may be installed in zone 1. The unit should be installed as close as possible to the outlet to avoid heat loss.

#### Plumbing

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

The appliance may be used as an unvented installation (as shown in the diagram opposite) or as a vented installation.

#### Electrical

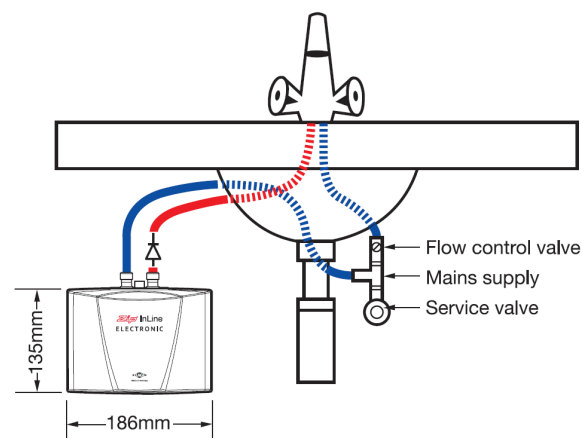
The appliance must be earthed and connected to the mains supply by means of permanent wiring through suitable isolation having a contact separation of 3mm in all poles and may only be operated if measures have been taken to protect against shock-hazard voltages.

Installation must be installed in accordance with current IEE regulations.

#### Technical Support

Contact Zip on 0845 6 005 005 / 0345 6 005 005.

### Typical Installation



N.B. 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.

If a non-return valve is necessary for installation it must be installed in the hot water outlet line and must NOT be fitted in the cold inlet line before the appliance.