

Zip InLine[®] DEX & DBX

Electronic instantaneous water heaters



Features

- 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
- DEX model suitable for use with pre-heated water from solar heating systems.

Zip Product Specification Sheet

Zip®

Instant Boiling Water

Zip InLine® DEX & DBX

Description

All models:

- 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.
- Regulate power consumption electronically depending on supply water temperature and flow rate to achieve the required outlet temperature.
- Also regulate power consumption based on outlet temperature to ensure precise temperature control irrespective of fluctuations in voltage and water pressure.
- Bare wire heating system ensures fast response for immediate, energy efficient delivery of hot water.

DBX:

- Outlet temperature factory set to 50°C adjustable inside the appliance 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 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.

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 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.

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. The hot water pipes must be thermally insulated.

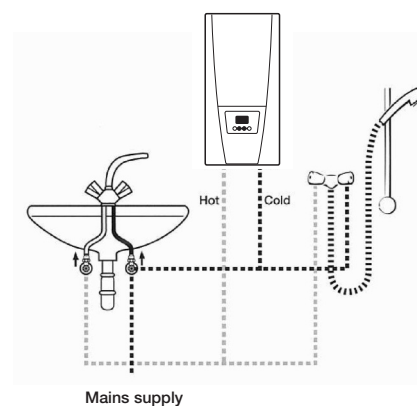
Minimum flow rate 2.5 litres/min.

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

Model	DEX 18-27kW			
	DBX 18	DBX 21	DBX 24	DBX 27
Rating/Current	18kW(26A)	21kW(30A)	24 kW(35A)	27kW(39A)
Power supply	3/PE 380 – 415V AC			3/PE 400V AC ⁽¹⁾
Hot water (l/min)				
Maximum @ $\Delta t = 28K$	9.2 ⁽²⁾	10.7 ⁽²⁾	12.3 ⁽²⁾	13.8 ⁽²⁾
Maximum @ $\Delta t = 38K$	6.8	7.9	9.0 ⁽²⁾	10.2 ⁽²⁾
Rated volume (litres)	0.4			
Rated pressure	1 MPa (10 bar)			
Element type	Bare wire heating system IES			
Required specific water resistance				
DEX	>1100 Ω cm @ 15°C			
DBX	>1300 Ω cm @ 15°C			
Maximum inlet temperature				
DEX	70°C			
DBX	30°C			
Switch on flow rate (l/min)	2.5			
Maximum flow rate (l/min)				
DEX	8.0 ⁽³⁾			
DBX	7.0 ⁽³⁾	8.0 ⁽³⁾	8.0 ⁽³⁾	9.0 ⁽³⁾
Pressure loss				
@ 2.5 l/min	0.2 bar			
@ 9.0 l/min	1.3 bar ⁽⁴⁾			
Temperature setting range				
DEX	20°C – 60°C			
DBX	30°C – 60°C			
Maximum weight (kg)	3.70			
Dimensions HxWxD (mm)	466 x 231 x 97			
Water connections	½" BSP			
Protection class	IP25			

- (1) Maximum 400V for DEX and DBX at 27kW (2) Mixed with cold water at the outlet
(3) Flow rate limited to achieve optimum temperature rise (4) Without flow regulator

Typical installation



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

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 up to a maximum cable size of 10mm².

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

IP Rating

IP25. Suitable for installation in Zone 1.

Approvals

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

Technical support

Contact Zip on 0800 077 8302

Warranty

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

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

The terms, Zip, DBX, DEX are Trademarks

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