

# The Zip Commercial Product Guide





## Introduction

Thank you for considering a Zip product. Whichever one you choose, you can be quite certain of one thing - nobody offers you a more advanced boiling, chilled, sparkling water system for your project, because nobody knows instant boiling water like Zip. We also lead the way in the UK development of instantaneous hot water products.

Today millions of people around the world use Zip instant boiling water systems each day in homes, public buildings, hospitals, schools, offices and factories in more than sixty countries.

Zip remains world leader in instant boiling water, setting the pace in time-saving, energy-saving, water-conserving and user-safety technology.

You can be confident that the Zip product you choose is a sound investment, because it is by far the best of its kind, designed to save you time, energy and money every day and for many years to come.



## Training

Zip's experienced team of Training Managers offer bespoke product training geared to the needs of Installers, Specifiers and Facility Managers.

These 'hands on' sessions typically take place on site, or in one of Zip's specially designed training centres, covering all relevant product installation, servicing and maintenance issues.

Additionally a choice of RIBA accredited CPD programmes are available for those involved in the specification of boiling, chilled or hot water products.



## Prompt service

Zip HydroTap is better designed, better built and better backed than any comparable boiling and chilled filtered water system and is designed to give many years of service. However, like any appliance, 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.

In the Greater London area (within the M25) we offer a same day service, providing that the call is made before mid-day. Other areas may take a little longer.



**Boiling** | **Chilled** | **Sparkling** | **Filtered** | **Instantly**



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## Zip HydroTap®

### The most intelligent filtered drinking water system ever invented

Zip Heaters' policy of continual product development has resulted in the most advanced, energy saving, time saving product providing instant filtered, boiling, chilled and sparkling drinking water.

### The Zip HydroTap G4



**New under-sink Zip Command-Centre™** units are more compact than ever before and all connection points are at the rear, reducing installation time. A front access door makes changing the filtration cartridge as simple and quick as replacing a light bulb.

**Advanced insulation** and electronics technology reduces standby energy consumption substantially over earlier Zip models of similar capacity, by up to 53%.

**Auto-calibrates to boiling point** upon installation, regularly re-calibrates and optimises performance.

**Simple pin-code-protected touch-screen** puts managers in total control of each appliance.

**Adjustments include** temperature, dispensing time, safety settings and energy-saving settings.

**Continuous auto-diagnostics** system monitors performance and provides total history on demand.

**Integral cross-ventilation** system reduces cupboard heat-up with no need for an external fan, in standard installations.

**Multiple filter life** settings, with precise litre monitoring, to optimise filter replacement timing.

**Added peace-of-mind** features include overload protection, temperature monitoring, internal leak detection, plus an internal pressure limiting valve.



## Zip brings you the most intelligent filtered drinking water tap ever invented.

Water temperature: adjustable boiling temperature set point, factory set to operate at 98°C for optimum results. Chilled water 3-5°C, 5-9°C or 6-10°C, depending on the models.

Power-Pulse™ electronic technology controls the set boiling temperature within 0.2°C and eliminates overboil.

Choice of fingertip control for fast cup filling (lever down) or hands-free pot filling (lever up).

Can be set to require finger-thumb safety operation for boiling water access, eliminating the risk of accidental use. Can also be set to boiling isolation mode for increased safety.

Longer spout caters for under-mount sinks. Extended lever & Braille pads also available.

### Energy saving technology

- Low-energy lights signal boiling water is ready, chilled is ready, or filter change is due.
- Hidden light sensor sends appliance to sleep, to conserve energy when the room goes dark.
- Sleeps or powers off after 2 hours of non-use.
- Plus 24/7 on/off timer, allowing power to be turned off, automatically, for weekday or weekend periods.

## Zip HydroTap® technology

Superior technology saves energy and conserves water



### **Power-Pulse™ energy saving technology.**



Reduces power consumption by allowing the system to regulate its power during periods of high and low usage. This saves energy whilst maintaining the tightest possible temperature control.

### **Automatically calculates boiling point.**



Because boiling point varies by altitude, Zip HydroTap pinpoints boiling point during installation and sets it accordingly.

### **Sleeps when inactive.**



The system can be pre-set to power down after 2 hours of non-use, but will still retain stored 'boiling' water at an energy saving 68°C, or can also be set to hibernate (power off completely). The system quickly recovers to the pre-set boiling temperature upon further draw-off.

### **Programmable 24/7 timer.**



Pre-set the 'power on' and 'power off' times (once a day) for those periods when the Zip HydroTap will not be used, such as overnight or at weekends (for commercial users).

### **Cuts down water wastage, too.**

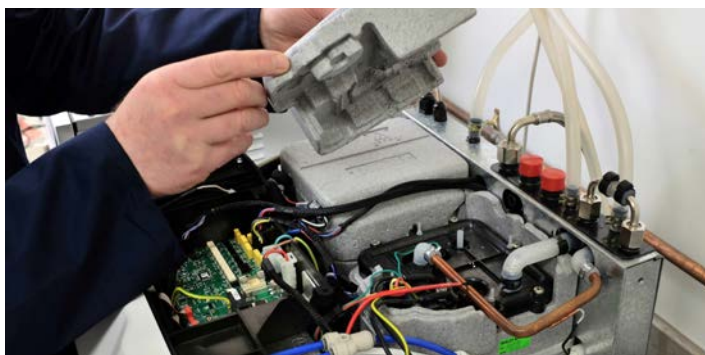


Every drop of water is dispensed at the set temperature, so there is, no longer, any need to waste water running a tap until the water is at the correct temperature.



# Zip HydroTap® sustainability

Supporting the environment as never before



HydroTap technology

## **Conserves water.**

New, improved air-cooled system, with integral cross-ventilation, does not dump water to waste. An environmentally responsible solution.

## **Conserves energy.**

Choice of four energy-saving settings to allow installers or site managers to adjust each set-up to operate with optimum energy efficiency.

## **RoHS Compliant.**

All materials involved in Zip HydroTap manufacturing comply with the European Restriction of Hazardous Substances Directive 2011/65/EC.

## **WRAS Approval.**

All Zip HydroTap G4 commercial products carry the WRAS (Water Regulations Advisory Scheme) accreditation.

### **Standing heat-loss energy consumption comparison (tests for a 24 hour period with no draw-off)**

<b>Example G3 models</b>	<b>Energy used (watt/hours)</b>	<b>Example G4 models</b>	<b>Energy used (watt/hours)</b>	<b>Energy saved</b>
BC100/125	60.6	BC160/125G4	34	44%
BC150/175	74.5	BC240/175G4	36.2	51%

N.B. When the sleep mode facilities were activated on both the G3 and G4 models, the G4 showed a 53% stand-by energy saving over the superseded G3 models.

## Zip HydroTap® range

### General Information—Commercial HydroTap

#### Tap head

Chrome plated, die cast tap body with push and pull levers. Integral safety lock and LED indicators. It can be mounted at the sink or on the optional font and drain (see page 27).

#### D.D.A. options

Oversize tap levers.  
Braille covers.

#### Control panel

Located on under-counter unit for programming sleep mode, timer, water temperature and water delivery. (see page 8)

#### Filtration system

Integral triple-action 0.2 micron encapsulated cartridge.

#### Safety features

Child-proof interlock on tap. Boiling isolation mode. Under-counter safe tray with leak detector. Pin-code protection.

#### Finishes

Available in Bright Chrome (standard), Brushed Chrome, Gloss Black and Matt Black.

#### Approvals

WRAS. CE endorsed.

#### Warranty

2 years on site parts and labour with additional 3 years on the boiling tank. For full details visit: [www.zipindustries.co.uk/warranty-policy](http://www.zipindustries.co.uk/warranty-policy)

#### Plumbing

The water supply must be potable (drinkable). If static pressure exceeds 7 bar, a pressure reducing valve must be fitted.

An isolating valve should be installed between the water supply and the unit.

#### Venting

The cupboard housing the unit must be amply ventilated as per the installation manual.

#### Electrical

Connect to a 13 amp socket.

If the booster system is used it must be connected to a power supply. Installation must comply with current IEE regulations.

3 metre power cable provided, with moulded plug.

#### Caution

In some hard water areas where scale is an issue we recommend the fitting of one of the Zip Professional range of scale filtration systems. (See page 29).

# Zip HydroTap® range

## The wide range of products available



Boiling, chilled & sparkling



Boiling & chilled



Boiling only



Boiling & ambient



Chilled only



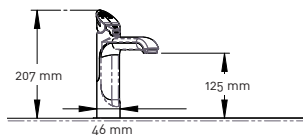
3-in-1, 4-in-1  
&  
5-in-1



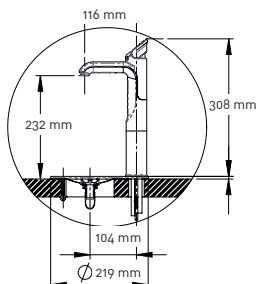
All-in-One



Industrial  
Top & Side  
Touch



HydroTap sink mounted



HydroTap font mounted

## Zip HydroTap®

### Boiling, chilled and sparkling filtered water

#### Features & benefits

- Simple to operate, and with more safety features than ever.
- Press red lever for boiling water, however, if safety interlock is activated, press red lever and safety button at the same time.
- Press the blue lever to fill a glass, jug or bottle with chilled filtered water.
- Press both red and blue levers together for sparkling chilled filtered water.
- Lift either lever to run water for any pre-set period of 5 to 15 seconds.
- Boiling water can be isolated, if needed, during periods when your HydroTap is unattended.
- Smarter technology cuts power consumption dramatically.
- Power-Pulse™ controls power phasing to cut power costs.
- Sleeps or powers off after 2 hours of non-use.
- 24/7 on/off weekly timer to save energy when HydroTap is not in use.
- BCS100/75G4 and BCS160/175G4 can be upgraded, retrospectively, if additional boiling water capacity is required, by installing the booster unit ZT011.
- Can be mounted at the sink or on the optional font and drain (see page 27).

#### Capacity choice options

BCS100/75G4.  
BCS140/75G4 -including booster unit.  
(separate fused spur needed).  
BCS160/175G4.  
BCS240/175G4 -including booster unit.  
(separate 13amp supply needed).

#### Boiling system

Open outlet, vented system; factory set to operate at 98°C.  
Adjustable boiling temperature set-point.  
Flow rate - 4.0 l/min

#### Chilling system

Fan-cooled condenser type, factory set to operate at 5-9°C. (Sparkling 3-5°C)  
Flow rate - 3-4.0 l/min  
Sparkling 1.3-1.8 l/min  
Refrigerant R134A.

#### Finishes

These models are available in 4 tap finishes:  
Bright Chrome (standard).  
Gloss Black.  
Matt Black.  
Brushed Chrome.  
Matching fonts are also available.  
See page 28 for details.

#### N.B.

For general installation and specification details of the HydroTap G4 range see page 10.  
Visit [www.zipindustries.co.uk](http://www.zipindustries.co.uk)



### Under-counter Zip Command Centre



BCS100/75G4 &amp; BCS140/75G4



BCS160/175G4 &amp; BCS240/175G4

Model	BCS100/75G4	BCS140/75G4	BCS160/175G4	BCS240/175G4
Product Code	HT1760UK	HT1761UK	HT1762UK	HT1763UK
Boiling cups per hr @ 167ml	100	140	160	240
Chilled glasses per hr @ 200ml	75	75	175	175
Power rating kW @ 230V	2.15	2.15 + 2.20*	2.30	2.30 + 2.20*
Width	338	338	450	450
Depth	461	461	470	470
Height	333	333	335	335

\* These Zip HydroTap G4 models are installed with a 2.2kW, externally mounted, booster unit and must be connected to two separate 13 amp power supplies.

## Zip HydroTap®

### Boiling and chilled filtered water

#### Features & benefits

- Simple to operate, with more safety features than ever.
- Press red lever for boiling water, however, if safety interlock is activated, press red lever and safety button at the same time.
- Press the blue lever to fill a glass, jug or bottle with chilled filtered water.
- Lift either lever to run water for any pre-set period of 5 to 15 seconds.
- Boiling water can be isolated, if needed, during periods when your HydroTap is unattended.
- Smarter technology cuts power consumption dramatically.
- Power-Pulse™ controls power phasing to cut power costs.
- Sleeps or powers off after 2 hours on non-use.
- 24/7 on/off weekly timer to save energy when HydroTap is not in use.
- BC100/75G4 and BC160/175G4 can be upgraded, retrospectively, if additional boiling water capacity is required, by installing the booster unit ZT011.
- Can be mounted at the sink or on the optional font and drain (see page 27)

#### Capacity choice options

BC100/75G4.  
BC140/75G4.-including booster unit.  
(separate fused spur needed)  
BC160/175G4  
BC240/175G.4 -including booster unit.  
(separate fused spur needed).

#### Boiling system

Open outlet, vented system; factory set to operate at 98°C.  
Adjustable boiling temperature set-point.  
Flow rate - 4.0 l/min

#### Chilling system

Fan-cooled condenser type, factory set to operate at 5-9°C.  
Flow rate - 4.0 l/min  
Refrigerant R134A.

#### Finishes

These models are available in 4 tap finishes:  
Bright Chrome (standard)  
Gloss Black  
Matt Black  
Brushed Chrome  
Matching fonts are also available  
See page 28 for details

#### N.B.

For general installation and specification details of the HydroTap G4 range see page 10.  
Visit [www.zipindustries.co.uk](http://www.zipindustries.co.uk)



### Under-counter Zip Command Centre

BC100/75G4 & BC140/75G4



BC160/175G4 & BC240/175G4



Model	BC100/75G4	BC140/75G4	BC160/175G4	BC240/175G4
Product Code	HT1764UK	HT1799UK	HT1704UK	HT1705UK
Boiling cups per hr @ 167ml	100	140	160	240
Chilled glasses per hr @ 200ml	75	75	175	175
Power rating kW @ 230V	2.15	2.15 + 2.20*	2.20	2.20 + 2.20*
Width	280	280	450	450
Depth	470	470	470	470
Height	335	335	335	335

\* These Zip HydroTap G4 models are installed with a 2.2kW, externally mounted booster unit and must be connected to two separate 13 amp power supplies.

## Zip HydroTap®

### Filtered boiling

### & filtered boiling and ambient water models

#### Features & benefits

- Simple to operate, with more safety features than ever.
- Press red lever for boiling water, however, if safety interlock is activated, press red lever and safety button at the same time.
- For boiling ambient models right hand blue lever for filtered ambient water.
- Lift lever to run water for any pre-set period of 5 to 15 seconds.
- Boiling water can be isolated, if needed, during periods when the HydroTap is unattended.
- Smarter technology cuts power consumption dramatically.
- Power-Pulse™ controls power phasing to cut power costs.
- Sleeps or powers off after 2 hours of non-use.
- 24/7 on/off weekly timer to save energy when HydroTap is not in use.
- B160G4 and BA160G4 can be upgraded, retrospectively, if additional boiling water capacity is required, by installing the booster unit ZT011.
- Can be mounted at the sink or on the optional font and drain (see page 29).

#### Capacity choice options

B160G4 - filtered boiling.  
 B240G4- filtered boiling, including booster unit.  
 (separate fused spur needed).  
 BA160G4 - filtered boiling & ambient.  
 BA240G4 -filtered boiling & ambient, including booster unit.  
 (separate fused spur needed).

#### Boiling system

Open outlet, vented; factory set to operate at 98°C.  
 Adjustable boiling temperature set-point.  
 Flow rate - 4.0 l/min

#### Ambient supply

Free-flow, mains pressure, at incoming water temperature

#### Finishes

These models are available in 4 tap finishes:  
 Bright Chrome (standard).  
 Gloss Black.  
 Matt Black.  
 Brushed Chrome.  
 Matching fonts are also available.  
 See page 28 for details.

#### N.B.

For general installation and specification details of the HydroTap G4 range see page 10.  
 Visit [www.zipindustries.co.uk](http://www.zipindustries.co.uk)



Boiling and ambient tap



Boiling only tap

### Under-counter Zip Command Centre



Model	B160G4	B240G4	BA160G4	BA240G4
Product Code	HT1706UK	HT1707UK	HT1708UK	HT1709UK
Boiling cups per hr @ 167ml	160	240	160	240
Power rating kW @ 230V	2.15	2.15 + 2.20*	2.20	2.20 + 2.20*
Width	280	280	450	450
Depth	313	313	313	313
Height	335	335	335	335

\* These Zip HydroTap G4 models are installed with a 2.2kW, externally mounted booster unit and must be connected to two separate 13 amp power supplies.

## Zip HydroTap®

### Filtered chilled and sparkling water

#### Features and benefits

- Provides chilled filtered water instantly.
- Provides chilled and sparkling filtered water instantly.
- No need for expensive and environmentally damaging bottled water.
- No need to store and handle bottled water.
- Free-Flow system means no fear of running out of drinking water in extreme weather conditions.
- Can be mounted at the sink or on the optional font and drain (see page 29).

#### Choice options

C175G4 - Chilled only  
CS175G4 - Chilled and Sparkling

#### Chilling system

Fan-cooled condenser type, factory set to operate at 5-9°C.  
(Sparkling 3-5°C)  
Flow rate - 3-4.0 l/min  
Sparkling 1.3-1.8 l/min  
Refrigerant R134A.

#### Finishes

These models are available in 4 tap finishes:  
Bright Chrome (standard)  
Gloss Black  
Matt Black  
Brushed Chrome  
Matching fonts are also available  
See page 26 for details

**N.B.** For general installation and specification details of the HydroTap range see page 10.

Visit [www.zipindustries.co.uk](http://www.zipindustries.co.uk)



Under-counter Zip Command Centre



Model	C175G4	S175G4
Product Code	HT1711UK	HT1799UK
Chilled glasses per hr @ 200ml	175	175
Power rating kW @ 230V	0.30	0.45
Width	336	336
Depth	476	476
Height	335	335

## Zip HydroTap® 3-in-1, 4-in-1 & 5-in-1

Boiling, chilled and sparkling filtered drinking water PLUS hot, cold (ambient) or mixed warm water – from two taps

### Features & benefits

- Offers all of the advantages of a standard HydroTap plus these additional 4 benefits.
- Provides hot water at 50°C to the mixer tap (supplied) and either boiling, chilled and sparkling (5-in-1), or boiling and chilled (4-in-1) or boiling or boiling and ambient (3-in-1) to the HydroTap.
- Saves the cost of a separate hot water supply.
- Saves space.
- Conserves energy.

### Choice options

See table on page 21.

N.B. The above units are supplied, as standard, with the classic mixer tap. Alternative mixer taps (the Arc and the Cube) are also available.

### Boiling system

Open outlet, vented; factory set to operate at 98°C. Adjustable boiling temperature set-point. Flow rate - 4.0 l/min

### Chilling system

Fan-cooled condenser type, factory set to operate at 5-9°C. (Sparkling 3-5°C) Flow rate - 3-4.0 l/min Sparkling 1.3-1.8 l/min Refrigerant R134A.

### Mixer Flow

The mixer tap will deliver up to 3ltr/min, ideal for rinsing cups and hand-washing.

### Mixer Taps

The mixer tap is available in three types:



Classic mixer tap

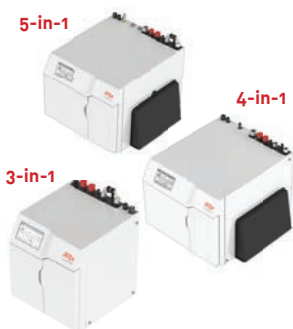


Arc mixer tap



Cube mixer tap

### Under-counter Zip Command Centres



**5-in-1** (BCSH) provides filtered boiling, chilled and sparkling water delivered through the HydroTap PLUS hot and cold (ambient) through the mixer tap.

**4-in-1** (BCH, BAH - Boiling Ambient) provides filtered boiling and chilled (or ambient) water delivered through the HydroTap PLUS hot and cold (ambient) through the mixer tap.

**3-in-1** (BH) provides filtered boiling water delivered through the HydroTap PLUS hot and cold (ambient) through the mixer tap.



3-in-1, 4-in-1 and 5-in-1 models with Classic mixer taps.

Model	BCSH160/175G4	BCSH240/175G4	BCH160/175G4	BC240/175G4
Product Code	HT1775UK	HT1776UK	HT1723UK	HT1724UK
Boiling cups per hr @ 167ml	160	240	160	240
Chilled glasses per hr @ 200ml	175	175	175	175
Power rating kW @ 230V	2.30	2.30 + 2.20*	2.20	2.20 + 2.20*
Width	450	450	450	450
Depth	470	470	470	470
Height	335	335	335	335

Model	BAH160G4	BAH240G4	BH160G4	BH240G4
Product Code	HT17314UK	HT1732UK	HT1737UK	HT1738UK
Boiling cups per hr @ 167ml	160	240	160	240
Power rating kW @ 230V	1.90	1.95 + 2.20*	1.90	1.90 + 2.20*
Width	280	280	280	290
Depth	313	313	313	313
Height	335	335	335	335

\* These Zip HydroTap G4 models are installed with a 2.2kW, externally mounted booster unit and must be connected to two separate 13 amp power supplies.

3-in-1, 4-in-1 and 5-in-1 models with Arc mixer taps.

Model	BCSH160/175G4	BCSH240/175G4	BCH160/175G4	BCH240/175G4
Code	HT1875UK	HT1876UK	HT18237UK	HT1824UK
Model	BAH160G4	BAH240G4	BH160G4	BH240G4
Code	HT1831UK	HT1832UK	HT1837UK	HT1838UK

3-in-1, 4-in-1 and 5-in-1 models with Cube mixer taps.

Model	BCSH160/175G4	BCSH240/175G4	BCH160/175G4	BCH240/175G4
Code	HT1975UK	HT1976UK	HT19237UK	HT1924UK
Model	BAH160G4	BAH240G4	BH160G4	BH240G4
Code	HT1931UK	HT1932UK	HT1937UK	HT1938UK

## Zip HydroTap® All-in-One

Boiling, chilled, filtered drinking water PLUS hot, cold (ambient) or mixed warm water – all from one tap

### Features & benefits

- Offers all of the advantages of a standard HydroTap plus these additional benefits.
- Replaces mixer taps to declutter and simplify kitchen design.
- Vented systems save space, cost and energy by eliminating the need for a separate hot water supply.
- Separate drinking water controls for convenience and safety.
- Vented and non-vented systems available

### Choice options

See table on page 23

### Finishes

This model is available in 4 tap finishes:

Bright Chrome (standard)  
Gloss Black  
Matt Black  
Brushed Chrome

### Boiling system

Open outlet, vented; factory set to operate at 98°C. Adjustable boiling temperature set-point. Flow rate - 4.0 l/min

### Chilling system

Fan-cooled condenser type, factory set to operate at 5-9°C. (Sparkling 3-5°C) Flow rate - 3-4.0 l/min Sparkling 1.3-1.8 l/min Refrigerant R134A.

### Mixer Flow

The mixer tap will deliver up to 3ltr/min, ideal for rinsing cups and hand-washing.

### Tap head

Long reach spout swings through 170° to make use at the sink, for washing up, much easier.

### N.B.

For general installation and specification details of the HydroTap range see page 10. Visit [www.zipindustries.co.uk](http://www.zipindustries.co.uk)

### Under-counter Zip Command Centre



For 160/175 & 240/175 models



For 100/75 & 140/75 models



Filtered boiling and chilled water, with non-vented mixer tap. Hot and cold water feeds.

Model	AN100/75G4	AN140/75G4	AN160/175G4	AN240/175G4
Code	HT1773UK	HT1774UK	HT1713UK	HT1714UK
Boiling cups per hr @ 167ml	100	140	160	240
Chilled glasses per hr @ 200ml	75	75	175	175
Power rating kW @ 230V	2.15	2.15 + 2.20*	2.30	2.30 + 2.20*
Width	280	280	450	450
Depth	470	470	470	470
Height	335	335	335	335

Filtered boiling and chilled water, with vented mixer tap. Cold water feed only - no hot supply.

Model	AV140/75G4	AV160/175G4	AV240/175G4
Code	HT1715UK	HT1716UK	HT1717UK
Boiling cups per hr @ 167ml	140	160	240
Chilled glasses per hr @ 200ml	75	175	175
Power rating kW @ 230V	2.15 + 2.20*	2.30	2.30 + 2.20*
Width	280	450	450
Depth	470	470	470
Height	335	335	335

\* These Zip HydroTap G4 models are installed with a 2.2kW, externally mounted booster unit and must be connected to two separate 13 amp power supplies.

## Zip HydroTap® in Industry

Heavy duty designs for industrial environments and institutions

### Features & benefits

Offers all of the advantages of a standard HydroTap plus these additional benefits.

- Super strong tapered shank anchor (side touch models).
- Damage-resistant side or top touch buttons.
- Simple 2-button without safety lock.
- Optional 3-button with safety lock. (side touch tap only)
- Up to 240 boiling cups per hour.
- Up to 175 chilled glasses per hour.
- Side touch variant (primarily for use in high security locations, such as prisons) has a high strength tapered base which fastens to an undersink clamp block with a reinforcing spine.

### Choice options

See table on page opposite

### Boiling system

Open outlet, vented; factory set to operate at 98°C.  
Adjustable boiling temperature set-point.  
Flow rate - 4.0 l/min

### Chilling system

Fan-cooled condenser type, factory set to operate at 5-9°C.  
Flow rate - 3-4.0 l/min  
Refrigerant R134A.

### Tap Head

Chrome plated.

**N.B.** For general installation and specification details of the HydroTap range see page 10.

Visit [www.zipindustries.co.uk](http://www.zipindustries.co.uk)





Industrial Top Touch



Industrial Side Touch

**Under-counter Zip Command Centre**

## Side-touch model

<b>Model</b>	IS160/175G4	IS240/175G4
<b>Product Code</b>	HT1744UK	HT1745UK

## Top-touch model

<b>Model</b>	IT160/175G4	IT240/175G4
<b>Product Code</b>	HT1747UK	HT1748UK

<b>Boiling cups per hr @ 167ml</b>	160	240
<b>Chilled glasses per hr @ 200ml</b>	175	175
<b>Power rating kW @ 230V</b>	2.30	2.30 + 2.20*
<b>Width</b>	450	450
<b>Depth</b>	470	470
<b>Height</b>	335	335

## Zip HydroTap® Options

### Finishes

Classic Zip HydroTaps, including the All-in-One, and fonts are available in standard Bright chrome and a choice of three additional finishes.

Not available for Industrial, 3-in-1, 4-in-1 and 5-in-1 models.



**Gloss Black**



**Matt Black**



**Brushed Chrome**



### Font and Drain\*

Zip HydroTap can be ordered with a matching font and drain for mounting remotely from the sink.

Order Codes:

**ZT008** – Standard Chrome

**ZT009** – Satin Chrome

**ZT010** – Gloss Black

**ZT012** – Matt Black

\*Not for use with All-in-One.

### Drainless Font

For locations where there is no available drainage, the Zip "Drainless Font" system ensures the safe and effective collection of waste water from a HydroTap font.

Order Code: **ZT006**



### Over sized levers

All HydroTap models, except for models in the All-in-One, Industrial and Miniboil ranges, can be fitted with oversize levers to assist those with restricted dexterity.

Order Codes: Add 'D' to normal order code



### Braille covers

To aid those with sight issues Braille covers can be fitted to these levers.

Order Codes:

**SP99910** – Boiling/chilled

**SP99911** – Boiling only

**SP99912** – Chilled only



### Sparkling consumables

Order Codes:

**ZT400** – CO<sub>2</sub> canister (single).

**ZT401** – CO<sub>2</sub> regulator

## Zip HydroTap® Filtration

### All HydroTap products NOW feature 0.2 micron filtration

New Zip 0.2 micron filters reduce chlorine taste and odour, filtering out particles more than one fifth of a micron in size – that's one five-thousandth (1/5000th) of a millimetre – twenty five times finer than commonly used 5.0 micron filters.

Zip 0.2 micron filters are designed to remove the bad taste and odour associated with the high levels of chlorine used in the UK and, therefore, provide crystal-clear, great-tasting, healthier drinking water. This is arguably the most advanced and most practical water filtration system available anywhere today, developed to meet our exacting specifications by the world leader in water filter technology.

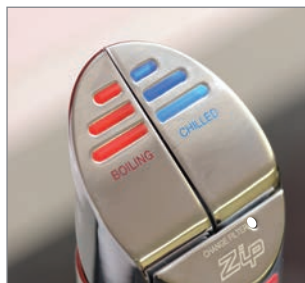


**Zip 0.2 micron filter cartridges** are incorporated into the Zip HydroTap installation under the sink, or out of sight within the Zip HydroTap command-centre installed beneath the tap.



**Zip 0.2 micron filter cartridges** are hygienically encased for fast and easy filter cartridge replacements. A white light on the tap will flash to indicate that the filter requires changing.

Order code: ZT402



**Zip HydroTap 'filter change light'** flashes when a filter change is due. It can be set to measure both water volume and the number of days in service, signalling whichever occurs first.

## Scale Management

Recommended for use when the water hardness level is above 4 degrees Clark (60 parts per million  $\text{CaCO}_3$ ).

- Triple action filtration
- Ion exchange resin to reduce water hardness
- Carbon block to improve taste and odour
- High efficiency filtration to remove particulates
- Choice of four filters to suit various applications
- Can be installed horizontally if required using optional bracket



### Choice of four filters:

- **FL2300** with one micron filtration for light commercial
- **FL3600** with one micron filtration for normal commercial use.
- **FL6000 PLUS** with one micron filtration for heavy commercial use.

For initial installation, each filter has a dedicated installation kit, which includes the head, the cartridge and all necessary push fit components.

The Order Codes are:

**FL2300G4 KIT**

**FL3600G4 KIT**

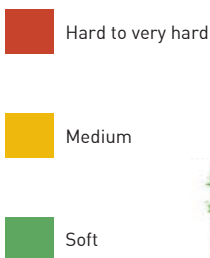
**FL6000G4 PLUS KIT**

**FL600 PLUS is not compatible with the other filter heads.**

### Zip Professional Range

High performance limescale filtration system for use with Zip HydroTap.

## Scale Map - UK & Ireland



N.B. Check with local water authority for accurate data

## Overview

### Wall mounted instant boiling water

#### Zip Hydroboil Plus

#### Zip Hydroboil

#### Zip Econoboil

Instant boiling water heaters are essential appliances for the workplace and are available in the widest range of models and capacities.

#### Saves time

No more time wasted waiting for water to boil—Zip delivers boiling water instantly, at the touch of a tap.

#### Saves energy

No energy is wasted boiling more water than needed—fingertip control gives a cup full or teapot full at a time.

#### Saves space

No cluttered worktops—Zip instant boiling water eliminates the need for kettles and exposed power leads.

#### Saves money

Costs little to run—thanks to energy-efficient design and electronic controls (Hydroboil Plus) to minimise power consumption.

#### Sets a new standard

Every working day in the UK over eight million cups of tea and coffee are made using Zip instant boiling water systems.

#### Temperature control

Zip's patented high precision temperature control systems are designed to keep the boiling water within one degree of the set temperature. This means that boiling water and only boiling water is delivered.

#### Ranges

Zip offers a choice of three ranges:

#### Hydroboil Plus

Thermostatically controlled, twin chamber technology with stainless steel boiling tank. Premium insulation and cool touch two way tap with safety lock.

Energy saving Power-Pulse™ Sleep mode - after 2 hours of no demand or when lights turned off.

Integral 24 hour 7 day timer. Available in sizes from 3.0 to 40.0 litres.

White or stainless steel finishes.

#### Hydroboil

Thermostatically controlled, twin chamber technology with stainless steel boiling tank. Premium insulation and chrome catering style tap.

Available in sizes from 1.5 to 40.0 litres.

White or stainless steel finishes.

#### Econoboil

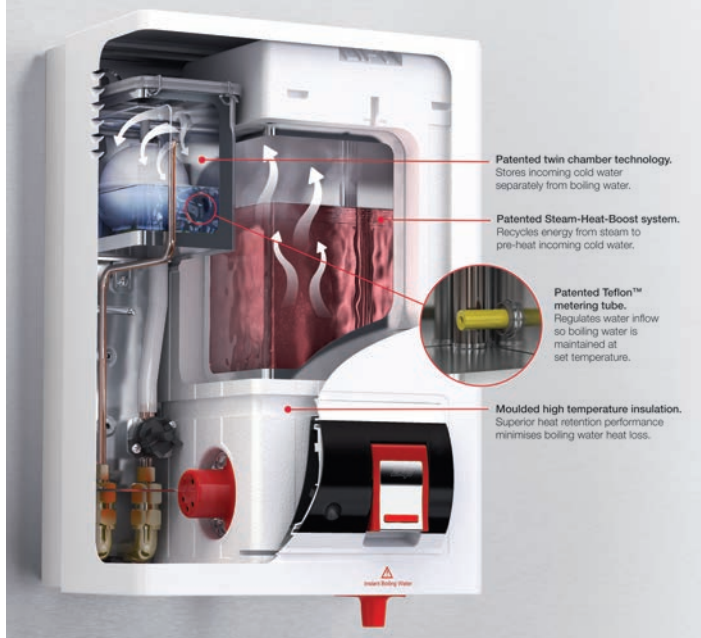
Thermostatically controlled, twin chamber technology with copper boiling tank.

Tontine insulation.

Chrome catering style tap.

Available in 3.0 & 5.0 litres.

White finish.



## Zip Hydroboil Plus cuts energy consumption in 5 ways



### Steam-Heat-Boost System

Steam from boiling water is recycled to preheat incoming cold water. A patented metering tube maintains the stored water within 1°C of set temperature.



### Power-Pulse™ energy saving technology

Applies full power only during heavy usage periods cutting back to micro-pulse power during light usage or when unused — not available on 40 litre model.



### Inactivity sleep mode

After 2 hours of non-use Hydroboil Plus enters sleep mode, allowing the water temperature to reduce to 65°, at which it is maintained until next draw-off.



### Low light sleep mode

When activated, an integral light detector activates this facility when room light is switched off and the unit enters sleep mode as above.



### Integral 24 hour 7 day timer

Switches system off during known periods of inactivity, returning to full functionality ahead of next expected demand.

Further energy savings are made due to the use of the unique cool touch tap, where no metal parts are used.

# Zip Hydroboil Plus

## Wall mounted instant boiling water

**3, 5, 7.5, 10, 15, 25, 40 litre**

### Heating element

Long-life incoloy sheathed embedded rod type. Dry start protection.

### Boiling chamber

Twin chamber-stainless steel. Steam-Heat-Boost technology. Crevice-free stainless steel with removable access ports, top and bottom.

### Insulation

Compressed high temperature insulation panels on sizes below 10 litres, engineered for easy boiling chamber access. High efficiency aluminium backed mineral wool insulation on other sizes.

### Thermostat

Thermistor controlled.

### Case

Stainless steel or corrosion-resistant, white enamelled steel.

### Temperature Settings

On installation, to suit user needs, the boiling water temperature can be adjusted from 100°C to 68°C.

### Control Panel

Liquid Crystal Display shows time, day, heater operation and energy saving mode status.

### Tap

Unique two-way cool touch tap.

### Safety features

Integral safety lock.

### Approvals

WRAS, CE endorsed.

### Warranty

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

### Installation

Install over a draining board, or work top fitted with a drip tray. Tap spout should be no higher than necessary to fill large pots. Minimum tap height above draining board for on-wall fitting is 200mm.

### Plumbing

Designed for direct connection to a potable cold water supply with a minimum pressure of 0.7 bar. If pressure exceeds 7 bar, a pressure limiting valve must be fitted. An isolating valve should be installed between the water supply and the heater.

### Concealed plumbing

Connect inlet and vent pipes from the rear via 15mm capillary elbows.

### Exposed plumbing

Connect inlet and vent pipes from below directly to 15mm compression fittings.

### Venting

The vent must discharge to a safe visible position using a tundish.

### Electrical

To be wired to a double pole fused spur with a minimum break capacity of 13 amps. Installation must comply with current IEE regulations.

### Caution

In some hard water areas where mineral scale accumulation can become a problem, consideration should be given to the maintenance required.





## Energy Conservation

The installer can select one of two programmable energy saving modes –

- Integral 24 hour 7 day timer enables the unit to switch off automatically during known periods of inactivity e.g. overnight or at weekends, returning to full functionality ahead of the next expected demand.

### Sleep Modes

- Inactivity Sleep Mode. Following a period of 2 hours non-use Hydroboil Plus automatically enters sleep mode when the unit powers down allowing the water temperature to gradually reduce to 65°C, at which it is maintained. Upon further draw off boiling resumes.

### and/or

- Low light Sleep Mode. An integral light detector automatically activates sleep mode (as above) when room lights are switched off, returning to normal operation when the next draw off occurs or the lighting is switched back on.

**Zip Hydroboil Plus** with cool touch tap and energy saving features

Product Code Case Finish s/steel white	Tank size	Cups* at one time	Cups* per hour	Rating kW@230V	Dimensions W x D x H (mm)
HP103	HP003	3.0	18	1.5	289 x 180 x 431
HP105	HP005	5.0	30	2.4	318 x 198 x 465
HP107	HP007	7.5	45	2.4	318 x 198 x 578
HP110	HP010	10.0	60	3.0	390 x 244 x 600
HP115	HP015	15.0	90	3.0	390 x 299 x 600
HP125	HP025	25.0	150	3.0	390 x 299 x 780
HP140	HP040	40.0	240	2 x 3.0	515 x 284 x 840

\* Standard cup size 167ml

## Zip Hydroboil®

### Wall mounted instant boiling water

**1.5, 3, 5, 7.5, 10, 15, 25, 40 litre**

#### Heating element

Long-life incoloy sheathed embedded rod type. Dry start protection.

#### Boiling chamber

Twin chamber-stainless steel. Steam-Heat-Boost technology. Crevice-free stainless steel with removable access ports, top and bottom.

#### Insulation

Compressed high temperature insulation panels on sizes below 10 litres, engineered for easy boiling chamber access. High efficiency aluminium backed mineral wool insulation on other size

#### Thermostat

Capillary type.

#### Case

Stainless steel or corrosion resistant white enamelled steel.

#### Tap

Two way, chrome-plated classic, catering style.

#### Approvals

WRAS, CE endorsed.

#### Warranty

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

#### Installation

Install over a draining board, or work top fitted with a drip tray. Tap spout should be no higher than is necessary to fill large pots. Minimum tap height above draining board for on-wall maintenance is 200mm.

#### Plumbing

Designed for connection to a potable cold water supply with a minimum pressure of 0.7 bar. If pressure exceeds 7 bar, a pressure limiting valve must be fitted. An isolating valve should be installed between the mains supply and the system.

#### Concealed plumbing

Connect inlet and vent pipes from the rear via 15mm capillary elbows.

#### Exposed plumbing

Connect inlet and vent pipes from below directly to 15mm compression fitting.

#### Venting

The vent must discharge to a safe and visible position using a tundish.

#### Electrical

To be wired to a double pole fused spur, minimum break capacity of 13 amps. Installation must comply with current IEE regulations.

#### Caution

In some hard water areas where mineral scale accumulation can become a problem, consideration should be given to the maintenance required.



### Zip Hydroboil with classic two-way tap

Product Code	Case Finish	Tank Size	Cups* at one time	Cups* per hour	Rating kW@230V	Dimensions W x D x H (mm)
-	HS001	1.5	9	100	1.5	289 x 180 x 335
-	HS003	3.0	18	100	1.5	289 x 180 x 431
HS105	HS005	5.0	30	140	2.4	318 x 198 x 465
HS107	HS007	7.5	45	140	2.4	318 x 198 x 578
HS110	HS010	10.0	60	180	3.0	390 x 244 x 600
HS115	HS015	15.0	90	180	3.0	390 x 299 x 600
HS125	HS025	25.0	150	180	3.0	390 x 299 x 780
HS140	HS040	40.0	240	240	2 x 3.0	515 x 284 x 840

\* Standard cup size 167ml

## Zip Econoboil®

### Wall mounted instant boiling water 3 & 5 litre

#### Heating element

Embedded rod type.

#### Boiling chamber

Twin chamber in copper.  
Steam-Heat-Boost technology.

#### Insulation

Aluminium backed Tontine.

#### Thermostat

Capillary type.

#### Case

Corrosion resistant white  
enamelled steel.

#### Tap

Two way, chrome-plated classic,  
catering style.

#### Approvals

WRAS, CE endorsed.

#### Warranty

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

#### Installation

Install over a draining board,  
or work top fitted with a drip  
tray. Tap spout should be no  
higher than is necessary to fill  
large pots. Minimum tap height  
above draining board for on-wall  
maintenance is 200mm.

#### Plumbing

Designed for connection to a  
potable cold water supply with  
a minimum pressure of 0.7 bar.  
If pressure exceeds 7 bar, a  
pressure limiting valve must be  
fitted. An isolating valve should  
be installed between the mains  
supply and the system.

#### Concealed plumbing

Connect inlet and vent pipes  
from the rear via 15mm capillary  
elbows.

#### Exposed plumbing

Connect inlet and vent pipes  
from below directly to 15mm  
compression fittings.

#### Venting

The vent must discharge to a  
safe and visible position using a  
tundish.

#### Electrical

To be wired to a double  
pole fused spur, minimum  
break capacity of 13 amps.  
Installation must comply with  
current IEE regulations.

#### Caution

**In some hard water areas where  
mineral scale accumulation  
can become a problem,  
consideration should be given to  
the maintenance required.**



**Zip Econoboil** the low cost boiling water solution for locations where economy is of the essence.

Product Code White	Capacity litres	Cups* at any one time	Cups* per hour	Rating kW @230V	Dimensions W x D x H (mm)
HS503	3.0	18	100	1.5	289 x 180 x 431
HS505	5.0	30	140	2.4	318 x 198 x 465

\* Standard cup size 167ml

## Zip Accessories

### Boiling water



#### Hydroboil Extra Tap Kits

(tap extension pipework)

**ZC100**

For 10, 15 and 25 litre heaters, up to 2 taps (excludes taps).

**SP90502**

Tap for above.



#### Inline Filters

**FL064**

6" filter for taste and odour removal with scale reduction. For use with Hydroboil up to 7.5 litre models



**FL104**

10" filter for taste and odour removal with scale reduction. For use with Hydroboil 10 litre models and above.



#### Mug Racks

**ZE010**

Stainless steel (for Classic Tap models only).



**ZE011**

Stainless steel (for Hydroboil Plus models only).



#### Drip Trays

**ZD200**

Stainless steel (with drain adaptor).

Drip Tray dimensions:

W: 340mm x D: 190mm x H: 20mm with a 19.5mm drainage access

## Zip Accessories

### Boiling water



#### Cup Dispensers

**ZE001**

Stainless steel.

**ZE002**

White plastic.



#### Counter Stands

**ZE004**

HS001.

**ZE006**

HS003.

**ZE007**

HS005, HS105, HP005, HP105

**ZE008**

HS007, HS107, HP007, HP107



#### Tundish

**ZD100**

Wall mounted, chromed

**ZD101**

Sink mounted, chromed



#### Universal Mounting Bracket

When a Zip Hydroboil replaces a Heatrae Sadia, Calomax or Instanta product this bracket may be used to secure the Hydroboil using existing fixings.

**ZP001**

3 and 5 litre.

**ZP002**

7.5 litre.



#### Zip Water Block

**HE45004**

Recommended to be fitted in the water supply line to all Zip products to minimise the potential damage in the event of leakage.

## Overview

### Chilled, filtered water

**Zip HydroTap**

**Zip FilterTap**

**Zip ChillTap**

**Zip Chillmaster**

**Zip Chill Fountain**

**Zip Wall Fountain**

Zip's mains fed chillers are designed for the workplace environment, to provide healthy, fresh filtered drinking water.

#### Features and benefits

- Provides drinking water at a fraction of the cost of bottled water.
- No more bottled water to buy.
- No more bottled water to store.
- No more bottled water to handle.
- No more environmental issues associated with bottled water.
- No more running out of drinking water during periods of high demand such as hot weather.
- Now feature the most technically advanced 0.2 micron filtration system for healthier, better tasting drinking water.

#### Access to drinking water

The law requires that employers provide an adequate supply of wholesome drinking water for all persons in the workplace. This must be readily available at suitable places. Drinking water should not be sited where contamination is likely such as toilet or washroom facilities.

More information is available from the Health and Safety Executive by visiting: [www.hse.gov.uk](http://www.hse.gov.uk)

[Source: [www.water.org.uk](http://www.water.org.uk)]

#### Good hydration at work

Water is a vital nutrient for life. Everybody wants to be healthy at work and a healthier workforce leads to improved efficiency. Even mild levels of dehydration adversely affect both physical and mental performance.

There is currently no agreement on how much water we should drink each day but estimates range from 1.2 to 3 litres per day.

The need for consumption at the top of these estimates would apply to those working in hot or dusty environments or where there is a need to wear protective clothing.





### **Making a difference to performance**

In the last five years there has been an explosion in new research investigating the cognitive benefits of water consumption. It's been suggested that water can improve everything from short term memory, to planning, problem solving, and hand-eye co-ordination.

The most compelling evidence is for the effect of dehydration on our alertness and ability to concentrate. In trial after trial it's been shown that being dehydrated by just one percent, as measured by your body weight, can make you less vigilant and more prone to error in a range of tasks.

But there is more. One remarkable study, conducted with 447 students in the United Kingdom, showed that those who took water into exams did up to 10% better on test scores. That's the difference between a first and second-class honours degree.

Just why water has this effect on exam results is unclear. It could be that sipping water relieves stress. It might also keep the pangs of thirst and hunger from taking up valuable brainpower. There is also evidence suggesting that water triggers our sympathetic - fight or flight - nervous system, which raises alertness, blood pressure and energy expenditure.

Whichever way you look at it, providing healthy drinking water to your staff, could substantially improve productivity.

**Zip HydroTap®****Filtered chilled water system****Features and benefits**

- Provides filtered chilled, or chilled and sparkling water, instantly.
- Eliminates the need for expensive and environmentally damaging bottled water.
- Eliminates the need to store or handle bottled water.
- Eliminates the fear of running out of drinking water in extreme weather conditions or other periods of high demand.
- Can be sited at a sink, or away from it on the optional font and drain. (ZT008)
- Free-Flow™ facility, ensuring cold filtered water continues to be available even when the chilled glasses per hour capacity is exceeded.

**Choice options**

C175G4

**Chilling System**

Fan-cooled condenser type, factory set to operate at 5-9°C. (Sparkling 3-5°C)

Flow rate - 3-4.0 l/min

Sparkling 1.3-1.8 l/min

Refrigerant R134A.

**N.B.**

For general installation and specification details of the HydroTap range see page 10.

**Energy Conservation****Programmable operation**

- Integral 24 hour 7 day timer enables the chilled water unit to switch-off automatically during known periods of inactivity e.g. overnight or weekends, but return to full functionality ahead of the next expected demand.



### Under-counter Zip Command Centre



Product Code	Chilled glasses/hour	Power rating kW@230V	Dimensions W x D x H (mm)
C175G4	175	0.30	336 x 476 x 335
CS175G4	175	0.45	336 x 476 x 335

## Zip ChillTap® & ChillTap® Extra Commercial

### Features and benefits

- Stylish tap.
- Fingertip control for filling glasses.
- Hands-free filling for large jugs and bottles.
- Superior 0.2 micron filtration.
- Filter change every 6 months.
- 140 glasses per hour.



#### Zip ChillTap

CT1/140

Chilled filtered water instantly.



#### Zip ChillTap Extra

CT2/140

Chilled filtered water instantly  
and cold (ambient) filtered water.



#### Zip ChillTap Sparkling

CS/125+

Chilled & sparkling filtered  
water instantly.

Shown on optional font—ZT008.



Product Code	Chilled glasses/hour	Power rating kW@230V	Dimensions W x D x H (mm)
CT1/140	140	0.45	353 x 291 x 385
CT2/140	140	0.45	353 x 291 x 385
CS125+	140	0.45	353 x 291 x 385

**Zip Chilltap®****Heavy duty under-sink chiller****Filtered drinking water****Features and benefits**

- Great tasting freshly filtered cool drinking water for fitting on a sink.
- Filters out dirt, rust and other particles contaminating drinking water.
- Reduces chlorine and other offensive water treatment chemicals.
- Delivers up to 140 glasses per hour.
- 0.2 micron filtration.

**Storage capacity**

Nominal 8 glasses.

**Output capacity**

Up to 140 glasses per hour at 10°C.

**Rating**

0.3 kW @ 230V.

**Chiller type**

Fan cooled condenser with a compressor rated at up to 0.25 hp.

**Refrigerant type**

Non-toxic R134A.

**Under-sink case**

Corrosion resistant white enamelled steel.

**Sink mounted tap**

Chrome plated brass with lever action tap and swivel head.

**Filtration**

0.2 micron fully encapsulated externally mounted double action carbon filter.

**Approvals**

WRAS, CE endorsed.

**Warranty**

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

**Installation**

The tap should be:

Positioned to the rear of a sink.  
Mounted on a flat surface.

Mounted at 45 degrees to the edge of the sink so it drains into the sink when running.

The under-sink chiller must be:  
Located as closely as possible to, and directly beneath the tap.

Installed with clearances of 50mm left, right and above, with 65mm to rear.

Filter should be:

Mounted where readily accessible on the chiller or on the adjacent cupboard wall.

**Plumbing**

Water connections 15mm compression.

If the water pressure is above 7 bar a 3.5 bar pressure limiting valve is supplied.

**Electrical**

To be wired to a double pole switched fused spur with a minimum break capacity of 13 amps. Installation must comply with current IEE regulations.



Product Code	Chilled glasses/hour	Power rating kW@230V	Dimensions W x D x H (mm)
Zip Chilltap undersink, sink mounted tap			
CH103	140	0.45	355 x 290 x 385

# Zip Chillmaster®

## Floor standing and wall mounted chiller

### Filtered drinking water

#### Features and benefits

- Great tasting freshly filtered cool drinking water for high usage and public access areas.
- Heavy duty, easy-to-clean stainless steel bowl and stainless steel case.
- Filter change reminder light signals when filter cartridge replacement is due.
- Filter cartridges are quick and simple to change.
- Submicron filtration.

#### Storage capacity

Nominal 8 glasses.

#### Output capacity

140 glasses per hour at  $\leq 10^{\circ}\text{C}$ .

#### Rating

0.3 kW @ 230V.

#### Chiller type

Fan cooled condenser with a compressor rated at 0.25 hp.

#### Carafe filler

Chrome plated brass lever action tap with swivel head.

#### Optional Taps

Bubbler (see page 54).

#### Refrigerant type

R134A.

#### Case

Brushed finish stainless steel with front access panel.

#### Filtration

Complete with 0.2 micron fully encapsulated double action carbon filter

#### Drain connection

38mm or 43mm diameter.

#### Approvals

WRAS, CE endorsed.

#### BREEAM compliance

The Zip floorstanding Chillmaster is fully BREEAM compliant when fitted with ZG500 fitting kit (see page 57).

#### Warranty

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

#### Installation

Water, drainage and power should all be available nearby. The chiller should be mounted on a level surface (levelling feet are provided).

The chiller must be installed with clearances of 50 mm left, right and 65mm at rear (except on wall mounted).

The optional kit ZG500, gives BREEAM compliance by ensuring services are protected from vandalism and the chiller securely fixed to the wall and floor.

Wall mounted Chillmaster supplied with  $\frac{1}{2}$ " masonry anchors for use on solid walls only.

#### Plumbing

Water connections  $\frac{1}{2}$ " (CH101), 15mm (CH102) compression. If water pressure is above 7 bar, a 5 bar (CH101) or a 3.5 bar (CH102) pressure limiting valve is supplied.

#### Electrical

To be wired to a double pole switched fused spur with a minimum break capacity of 13 amps. Installation must comply with current IEE regulations.





Product Code	Chilled glasses/hour	Power rating kW@230V	Dimensions W x D x H (mm)
Zip Chillmaster, floor standing			
CH101	140	0.45	350 x 350 x 915
Zip Chillmaster, wall mounted			
CH102	140	0.45	353 x 248 x 369

# Zip Wall Fountain®

## Recessed chiller

### Filtered drinking water

#### Features and benefits

- Recessed chiller ideal for providing chilled filtered water where space is at a premium.
- Perfect for installing in busy corridors.
- 0.2 micron filtration

#### Storage capacity

Nominal 8 glasses.

#### Output capacity

Rated at 140 glasses per hour at 10°C.

#### Rating

0.3 kW @ 230V.

#### Chiller type

Fan cooled condenser with a compressor rated at 0.25 hp.

#### Refrigerant type

R134A.

#### Configuration

Equipped with carafe filler - bubbler optional.

#### Case

Brushed finish stainless steel with lockable front access panel.

#### Filtration

Complete with 0.2 micron fully encapsulated double action carbon filter.

#### Approvals

WRAS, CE endorsed.

#### BREEAM compliance

The Zip Wall Fountain is fully BREEAM compliant when installed as per fitting instructions.

#### Warranty

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

#### Installation

The chiller should be recessed into a wall where it is easy for users to access.

Water, drainage and power should all be available nearby.

Integral, removable drip tray can be plumbed into waste if required.

#### Plumbing

Water connections 15mm compression.

If water pressure is above 7 bar a 3.5 bar pressure limiting valve is supplied.

#### Electrical

To be wired to a double fused switched spur, with a minimum break capacity of 13 amps. Installation must comply with current IEE regulations.

#### Availability

Allow 12 week lead time.



Product Code	Chilled glasses/hour	Power rating kW@230V	Dimensions W x D x H (mm)
Zip Wall Fountain			
CH104	140	0.45	635 x 303 x 1670

# Zip Chill Fountain®

## Wall mounted chiller

### Filtered drinking water

#### Features and benefits

- The perfect heavy duty solution for public areas where configurations for adults, children or wheelchair access may be necessary.
- Bump action electronic controls for wheelchair usage and lockable front panels.
- Heavy duty, easy-to-clean stainless steel bowls and stainless steel case.
- Can be configured for adult, child or wheelchair usage.
- 0.2 micron filtration.

#### Storage capacity

Nominal 8 glasses.

#### Output capacity

Rated at 140 glasses per hour at 10°C.

#### Rating

0.3 kW @ 230V.

#### Refrigerant type

R134A.

#### Chiller type

Fan cooled condenser with a compressor rated at 0.25 hp.

#### Configuration

Can be configured for adult, child or wheelchair use or any combination of these.

#### Case

Brushed finish stainless steel case with lockable front access panel.

#### Filtration

Complete with 0.2 micron fully encapsulated double action carbon filter

#### Approvals

WRAS, CE endorsed.

#### BREEAM compliance

The Zip Chill Fountain is fully BREEAM compliant when installed as per fitting instructions.

#### Warranty

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

#### Installation

The chiller should be wall mounted where it is easy for users to access. Water, drainage and power should all be available nearby. Integral, removable drip tray can be plumbed into waste if required.

#### Plumbing

Water connections 15mm compression. If water pressure is above 7 bar, a 3.5 bar pressure limiting valve is supplied.

#### Electrical

To be wired to a double pole switched fused spur with a minimum break capacity of 13 amps. Installation must comply with current IEE regulations.

#### Availability

Allow a 12 week lead time.



Product Code	Product type Single bowl	Dimensions (mm) W x D x H
--------------	-----------------------------	------------------------------

Zip Chill Fountain - Adult

CH105	140	0.45	500 x 410 x 1140
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Zip Chill Fountain - Child

CH145	140	0.45	500 x 410 x 1140
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Zip Chill Fountain - Wheelchair

CH115	140	0.45	500 x 410 x 1140
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Product Code	Product type Double bowl	Dimensions (mm) W x D x H
--------------	-----------------------------	------------------------------

Zip Chill Fountain - Adult / Adult

CH155	140	0.45	500 x 410 x 1140
-------	-----	------	------------------

Zip Chill Fountain - Child / Child

CH165	140	0.45	500 x 410 x 1140
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Zip Chill Fountain - Wheelchair / Wheelchair

CH135	140	0.45	500 x 410 x 1140
-------	-----	------	------------------

Zip Chill Fountain - Adult / Child

CH125	140	0.45	500 x 410 x 1140
-------	-----	------	------------------

Zip Chill Fountain - Adult / Wheelchair

CH175	140	0.45	500 x 410 x 1140
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Zip Chill Fountain - Child / Wheelchair

CH185	140	0.45	500 x 410 x 1140
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## Chilled water Accessories



### **ZE001**

Stainless steel dispenser for disposable cups.



### **ZI001**

Optional drinking bubbler - requires SP93551, expansion relief valve and piping kit.



### **ZD003**

Waste water dish for installation where drainage is not available.

# Chilled water Accessories

## BREEAM

(BRE Environmental Assessment Method) sets the standard for best practice in sustainable design and has become the de facto measure used to describe a building's environmental performance.

The BREEAM Health and Well Being credit HEA16 (drinking water) requires chillers to be installed in compliance with industry standard.

## ZG500 fitting kit

(right) enables the Zip Chillmaster to fully comply with these requirements.



## Zip Water Block

### HE45004

Recommended to be fitted in the water supply line to all Zip chilled products, to minimise the potential damage in the event of leakage.



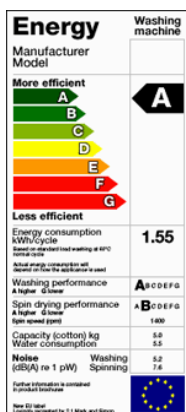
## Overview

### Energy-efficient water heaters

#### Energy related Products directive

The Ecodesign or Energy related Products Directive 2009/125/EC is a framework directive which primarily focuses on energy in use. It does this by setting minimum requirements for certain energy consuming products.

This initiative, by all member states of the European Economic Area, is to assist the EU's achievement of its 20-20-20 target to reduce the use of energy by 20% by 2020.



#### What has happened so far?

The scheme was initiated in 2009 and it has already ready manifested itself in the area of white goods, such as washing machines, freezers refrigerators and tyres.

You will already, no doubt, be familiar with the sight of these energy rating labels shown alongside these products at their point of sale.

#### How does the rating work?

For directly heated water heaters, the rating is based upon the efficiency of the product delivering against a defined usage pattern. The rating will be on a scale from A to G, with A being the most energy efficient.

Indirectly heated water heaters, however, are rated according to their heat loss.

All Zip water heating products that are liable to be rated in this way are shown in the following pages and have their rating displayed under the heading of **'ErP rating'**.





Hot water



## Zip InLine

instantaneous water heating

The inside story



### Why Zip InLine instantaneous water heating?

Zip InLine instantaneous water heaters are the most energy efficient way of directly heating water electrically.

Using the very latest German technology, Zip InLine offers a host of Specifier, Installer and End User benefits:

Unrivalled energy efficiency  
- no standing heat loss.

Sophisticated electronic control.

Unlimited hot water supply.

Easy to install.

Compatible with standard tapware.

Neat compact design.

Tangible water savings.

### Energy efficiency

Zip InLine saves energy by:

Heating only the water drawn off.

Avoiding stored water heat losses.

When comparing the energy used over 24 hrs to deliver 75 litres of water at 38°C (assuming 12°C supply) typical savings of 23% can be achieved.

Product	Energy Usage
15 litre stored water	3.0kWh
Zip InLine	2.3kWh

N.B. Percentage savings may be less with increased demand but more during periods without draw off.



### **Bare wire technology**

The Zip ES, CEX, DEX and DBX models feature bare wire heating technology using stainless steel elements directly immersed in the water flow path. This system achieves maximum efficiency by means of direct contact with the water flow plus the fastest possible heat up times.

### **Unlimited supply of hot water\***

Zip InLine will deliver a continuous supply at the selected temperature.

### **Easy installation**

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

### **Smart design**

The unit's compact size enables it to fit neatly and unobtrusively in any location.

### **Water conservation**

Zip InLine is designed for installation close to the point of use, avoiding the need for water to be run off before achieving temperature.

Savings per draw off compared to centralised systems with long pipe runs are as follows:

Traditional system pipe run 15mm	Litres saved per draw off
10 metres	3.2

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

**Zip InLine ES®****Electronic instantaneous water heater**

Single outlet for hand washing

**Features and benefits**

- Compact electronically controlled instantaneous water heater for hand washing.
- Bare-wire for fast heat up.
- Innovatively designed appliance that heats the water automatically as it flows through.
- No standing heat losses.
- Heating power automatically adjusted to compensate for variable inlet pressure and temperature.
- Supplied with 700mm of pre-wired cable.
- Outlet temperature factory set to 38°C, but can be installer adjusted between 30°C to 43°C.
- Intended for use with taps having removable M22/M24 nozzles.
- External flow regulation.
- Easier servicing.
- Easy to install wall bracket.

**Operation**

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

**Rating**

ES3 2.8kW @230V

ES4 4.4kW @230V

ES6 5.5kW @230V

**Heating system**

Bare-wire heating system for fast response.

**Safety feature**

Water temperature electronically controlled to maintain factory setting of 38°C.

**Temperature setting**

Temperature and flow adjustable at time of installation.

**ErP rating**

Class A

**IP rating**

IP 25.

**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.

**Case**

Impact resistant plastic.

**Approvals**

WRAS, VDE, CE endorsed.

**N.B. For correct operation, it is essential that the special tap nozzle supplied is fitted to the tap spout. Nozzles supplied to suit M22/24 taps should be used.**

**Warranty**

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

**Location**

The appliance must be installed in a frost free environment.

**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 or vented installation.

**N.B. Not recommended for use with thermostatic mixing valves or taps.**

**Electrical**

The appliance must be earthed and connected to the supply by means of permanent wiring through suitable isolation having a contact separation of at least 3mm in all poles. Installation must comply with current IEE regulations.



### Technical Data

Maximum temperature increase @230V and a flow rate of:	ES3	ES4	ES6
2.0 litres/min	20K	31K	39K
2.5 litres/min	16K	25K	31K
3.0 litres/min	13K	21K	26K
3.5 litres/min	11K	18K	22K
4.0 litres/min	10K	16K	20K
Switch on flow rate (l/min)	1.2	1.5	1.5
Switch off flow rate (l/min)	1.0	1.3	1.3

Product Code	Power rating kW @230V	*38°C Max Flow rate ltrs/min	ErP Class	Dimensions W x D x H (mm)
ES3	2.8	1.5	A	186 x 87 x 135
ES4	4.4	2.4	A	186 x 87 x 135
ES6	5.5	3.0	A	186 x 87 x 135

## Zip InLine ES®

### Instantaneous hand wash packs – complete with heater, tap & fittings

These packs provide the installer with the ES heater, compatible tap and a comprehensive plumbing kit including flexible hoses and fittings to ensure quick and easy system installation.

The packs are offered in a choice of 3 power ratings with non-concussive or mixer tap.

#### Non-concussive (NC) pack:

- ES instantaneous water heater.
- Non-concussive single outlet tap.
- 50cm flexible hose for connection to heater.
- 50cm flexible hose for connection to tap. (Isolating valve NOT supplied).



Optional matching cold taps available

#### Mixer Tap (MT) pack:

- ES instantaneous water heater.
- Single lever mixer tap complete with braided hoses.
- 50cm braided hose for connection to heater.
- Flow rate adjuster for cold supply to tap.
- Non-return valve for hot supply to tap.
- Tee piece connector. (Isolating valve NOT supplied).



#### Approvals

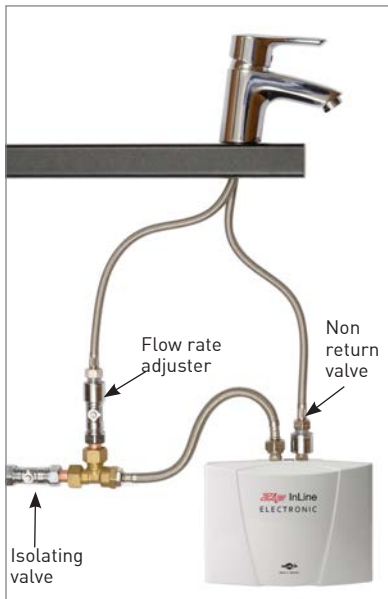
WRAS, VDE, CE endorsed.

Product Code	Tap type	Rating kW@230V	38°C Max flow rate ltrs/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 n/c cold tap		

## NC Pack (non-concussive tap)



## MT Pack (mixer tap)



## Zip InLine CEX®

# Over and Undersink Electronic Instantaneous Water Heaters for Single or Multiple Outlets

### Features and benefits

- 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 adjusted electronically to compensate for variable inlet pressures and temperatures.
- Required temperature can be set using two touch sensitive keys within the range 20°C to 55°C with digital display.
- Maintains precise temperature control despite fluctuations in voltage and water pressure.
- Suitable for use with preheated water from solar systems.
- Power rating can be selected at time of installation.
- Optional wireless control (ZL016).
- CEX-O for oversink CEX-U for undersink installation.

### Ratings

6.6kW/8.8kW. Selected at installation.

### Heating System

Bare-wire system.

### ErP rating

Class A.

### IP rating

Over-sink IP25.

Under-sink IP24

Both suitable for Zone 1.

### Approvals

WRAS, VDE & CE endorsed.

### Warranty

1 year on site parts and labour. For full details visit: [www.zipindustries.co.uk/warranty-policy](http://www.zipindustries.co.uk/warranty-policy)

### Location

The appliance must be installed in a frost free environment. In order to minimise thermal losses the distance between the appliance and the outlet fitting should be as short as possible.

### Plumbing

The appliance is intended for connection to a mains potable water supply. The specific water resistance of the supply must not fall below the minimum specified on the rating plate. Minimum flow rate 2 litres/min. Should be installed by a suitably qualified installer of electric instantaneous water heaters.

**N.B. Not recommended for use with thermostatic mixing valves or taps.**

### Electrics

The appliance must be earthed and be 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. The installation must be in accordance with current IEE regulations.

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





CEX-O



CEX-U

**Maximum temperature increase @230V and a flow rate of:**

3.0 litres/min	31K- 42K
4.0 litres/min	24K- 31K
5.0 litres/min	19K- 25K
Switch on flow rate (l/min)	2.0

Product Code	Rating kW @230V	50°C Max Flow rate ltrs/min	* 38°C Max Flow rate ltrs/min	Temp. range (°C)	ErP Class	Dimensions W x D x H (mm)
CEX-O	6.6 - 8.8	2.5 - 3.3	3.6 - 4.8	20 - 55	A	177 x 108 x 312
CEX-U	6.6 - 8.8	2.5 - 3.3	3.6 - 4.8	20 - 55	A	177 x 108 x 312

## Zip InLine® DEX, DEX12 & DBX

### Electronic Instantaneous Water Heaters for Single or Multiple Outlets

#### Features and benefits

##### All models

- 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 adjusted electronically to compensate for variable inlet pressures and temperatures.
- Maintains precise temperature control despite fluctuations in voltage and water pressure.
- Optional remote control temperature selection (using ZL017).

##### DBX:

Outlet temperature set to 50°C adjustable inside the appliance from 30°C to 60°C.

##### DEX:

If required, two temperature settings can be set, using the touch sensitive keys within the range 20°C to 60°C. (20°C to 55°C for DEX12), with digital display of the selected temperature. Suitable for use with preheated water from solar systems (not DEX12). Power rating can be selected at time of installation.

##### Ratings

DEX12 8.8-11kW (adjustable)  
DEX 18-27kW (adjustable)  
DBX 18kW, 21kW, 24kW & 27kW.

##### Heating System

Bare-wire system.

##### ErP rating

Class A.

##### IP rating

IP 25 - Suitable for Zone 1

##### Approvals

WRAS, VDE & CE endorsed.

##### Warranty

1 year on site parts and labour. For full details visit: [www.zipindustries.co.uk/warranty-policy](http://www.zipindustries.co.uk/warranty-policy)

##### Location

The appliance must be installed in a frost free environment. In order to minimise distribution losses the distance between the appliance and the outlet fitting should be as short as possible (less than 2m).

##### Plumbing

The appliance is intended for connection to a mains potable water supply. The specific water resistance of the supply must not fall below the minimum specified on the rating plate. Minimum flow requirements: 2.5 litres/min. Should be installed by a suitably qualified person.

**N.B. Not recommended for use with thermostatic mixing valves or taps.**

##### 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. The installation must be in accordance with current IEE regulations.

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



DBX



DEX

DEX12	DEX	DBX18	DBX21	DBX24	DBX27
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Temperature adjustment range

20°C - 55°C	20°C - 60°C	30°C - 60°C			
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Maximum inlet temperature

25°C	70°C	30°C			
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Maximum flow rate (litres/min)

5.0	8.0	7.0	8.0	8.0	9.0
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Pressure loss @ 2.5 l/min

0.2 bar					
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Pressure loss @ 9.0 l/min

1.3 bar					
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Product Code	Power rating kW	50°C Max Flow rate ltrs/min	38°C Max Flow rate ltrs/min	ErP Class	Dimensions W x D x H (mm)
DEX12	8.8 - 11.0*	3.3 - 4.1	4.8 - 6.1	A	231 x 97 x 466
DEX	18.0** - 27.0***	6.8 - 10.2#	9.8 - 14.8#	A	231 x 97 x 466
DBX18	18.0**	6.8	9.8 #	A	231 x 97 x 466
DBX21	21.0**	7.9	11.4 #	A	231 x 97 x 466
DBX24	24.0**	9.0 #	13.0 #	A	231 x 97 x 466
DBX27	27.0***	10.2 #	14.8 #	A	231 x 97 x 466

\* 1/N/PE 230V \*\* 3/PE 280-4150V \*\*\* 3/PE 400V

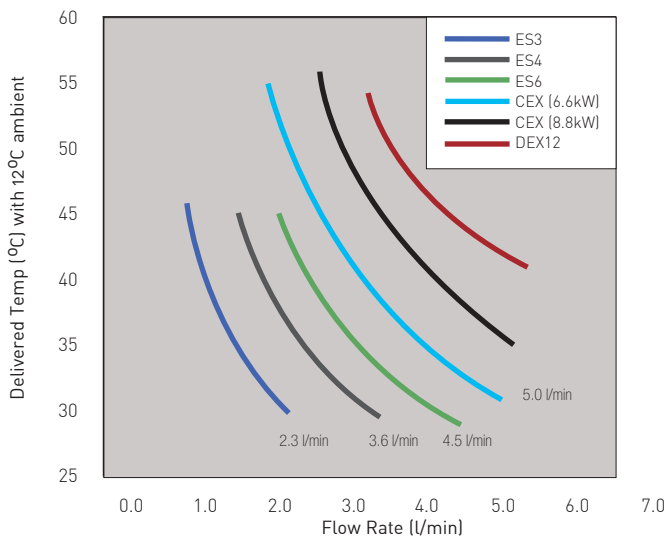
# mixed with cold water at the tap

## Zip InLine

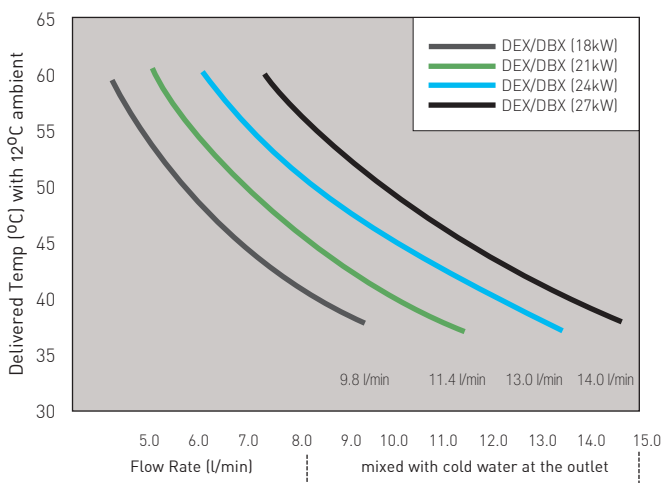
### Instantaneous water heating

### Instantaneous flow and temperature rise chart

Single Phase



Three Phase



# Zip InLine

## Accessories

### Optimum performance

For the best results from the Zip InLine products, the following tap nozzles, handsets and remote control should be used.



#### Tap aerator nozzle <5kW

Code	Type	Flow rates
<b>ZL012</b>	22mm female thread	2.0 litres/min
<b>ZL013</b>	24mm male thread	2.0 litres/min

#### Tap aerator nozzle >5kW

<b>ZL015</b>	15mm insert	3.5 litres/min
<b>ZL004</b>	22mm female thread	3.5 litres/min
<b>ZL005</b>	24mm male thread	3.5 litres/min



#### Shower hand set

<b>ZL006</b>	Fixed pattern	4.0 litres/min
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#### Shower hand set

<b>ZL007</b>	4 mode adjustable	4.0 litres/min
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### Touch-free taps for use with Zip InLine



#### 1 Long reach basin/sink tap

**TF001**—Mains powered

**TF002**—Battery powered

#### 2 Standard reach basin/sink tap

**TF003**—Mains powered

**TF004**—Battery powered

#### 3 Tubular wall mounted tap

**TF005**—Battery powered

**TF006**—Mains powered

#### 4 Tubular deck mounted tap

**TF007**—Battery powered

**TF008**—Mains powered

#### 5 Pillar tap

**TF009**—Dual powered

#### 6 Remote control

**TF100** for 3, 4 & 5

#### 7 Remote control

**ZL016** for CEX

**ZL017** for DEX

#### 8 Installation Frame

**ZL020** for DEX & DBX

## Zip Aquapoint III®

### Unvented water heater

#### Single or multiple outlets

**5, 10, 15 litre**

#### Under-sink and Over-sink

##### Features and benefits

- Glass lined steel inner container tested to 12 bar
- Sacrificial anode for protection against corrosion.
- Element 'ON' neon indicator.
- External temperature control with frost protection.
- Oversink and Undersink versions available: 5, 10 & 15 litre.

##### Capacities

5, 10 & 15 litre.

##### Rating

2.0 kW @ 230V.

##### Heating element

Embedded rod type.

##### Thermostat

Capillary type, adjustable from 9°C to 75°C.

##### Water tank

1.8 mm glass enamelled steel tested to 12 bar.

##### Case

High impact resistant, white plastic.

##### Insulation

High density, CFC-free polyurethane foam.

##### IP rating

24.

##### ErP rating

Class A

##### Approvals

WRAS, CE endorsed.

##### Warranty

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

##### Safety features

Manually resettable over temperature safety cutout. Expansion relief valve (supplied) set at 6 bar. Sacrificial anode for added protection for element and tank in aggressive water conditions, requiring regular inspection and replacement when necessary.

##### Installation

Separate models available for over-sink and under-sink installation.

All models can be wall mounted. Under-sink units can be installed unsupported on the floor if required.

All models can supply one outlet or multiple outlets, subject to capacity, without the need for special taps.

##### Plumbing

Water connections ½" BSP. Expansion relief valve (supplied) set at 6 bar. Should be installed only by a suitably experienced installer of unvented electric storage water heaters. Over-sink and under-sink models not interchangeable.

##### Electrical

To be wired to a double pole switched fused spur with a minimum break capacity of 13 amps. Installation must comply with current IEE regulations. Supplied with 1 metre of pre-wired cable.



Over-sink



Under-sink

Product Code	Power rating kW@230V	Nominal Capacity Litres	ErP Class	Dimensions W x D x H (mm)
Zip Aquapoint II Oversink				
AP3/05/OB	2.0	5	A	256 x 260 x 376
AP3/10/OB	2.0	10	A	350 x 265 x 480
AP3/15/OB	2.0	15	A	350 x 310 x 480
Zip Aquapoint II Undersink				
AP3/05	2.0	5	A	256 x 260 x 376
AP3/10	2.0	10	A	350 x 265 x 480
AP3/15	2.0	15	A	350 x 310 x 480

## Zip Varipoint II®

### Unvented water heater

#### Single or multiple outlets

**10, 15 litre**

#### Under-sink & over-sink

##### Features and benefits

- Heavy gauge copper inner container tested to 16 bar.
- Five year warranty on inner container, two years on other components.
- Does not require an anode. Supplied with temperature and pressure relief valve.
- Over-sink and under-sink versions available 10 litre or 15 litre.
- External temperature control with frost protection setting.
- Element 'ON' neon indicator.
- Supplied complete with wall mounting bracket.

##### Capacities

10 & 15 litre.

##### Rating

2.2 kW @ 230V.

##### Heating element

Embedded rod type.

##### Thermostat

Capillary type adjustable up to 80°C.

##### Water tank

Heavy gauge copper, pressure tested to 16 bar.

##### Case

High impact resistant, white plastic.

##### Insulation

High density, CFC-free polyurethane foam.

##### IP rating

24.

##### ErP rating

Class A, except VP103UB - Class B

##### Approvals

WRAS, CE endorsed.

##### Warranty

Five year on site parts and labour warranty on inner container, two years on other components. For full details of the Zip Warranty Scheme visit: [www.zipindustries.co.uk/warranty-policy](http://www.zipindustries.co.uk/warranty-policy)

##### Safety features

Manually resettable over temperature cut-out.  
Pressure and temperature relief valve supplied.  
Expansion relief valve supplied, set at 6 bar.  
Frost protection setting.

##### Installation

Separate models available for over-sink and under-sink installation.  
All models can supply one or more outlets.  
No special taps required.  
Under-sink is floor standing or wall hung on bracket (supplied).  
Over-sink is wall hung, on bracket (supplied).

##### Plumbing

Water connections ½" BSP.  
Pressure and temperature relief valve (supplied) should be fitted to heater.  
Expansion relief valve (supplied) to be fitted in cold water supply.  
Should be installed only by a suitably experienced installer of unvented electric storage water heaters.  
Over-sink and under-sink models not interchangeable.

##### Electrical

To be wired to a double pole switched fused spur with a minimum break capacity of 13 amps. Installation must comply with current IEE regulations.  
Supplied with 1 metre of pre-wired cable.





Under-sink



Over-sink

Product Code	Power rating kW@230V	Nominal Capacity Litres	ErP Class	Dimensions W x D x H (mm)
Zip Varipoint II Over-sink				
VP103	2.2	10	A	300 x 285 x 452
VP153	2.2	15	A	300 x 285 x 452
Zip Varipoint II Under-sink				
VP103UB	2.2	10	B	300 x 285 x 452
VP153UB	2.2	15	A	300 x 285 x 452

## Zip Accessories

### Unvented water heating

#### 5, 10 & 15 litre capacity



#### AQ2

Expansion vessel and check valve (3.5 bar)



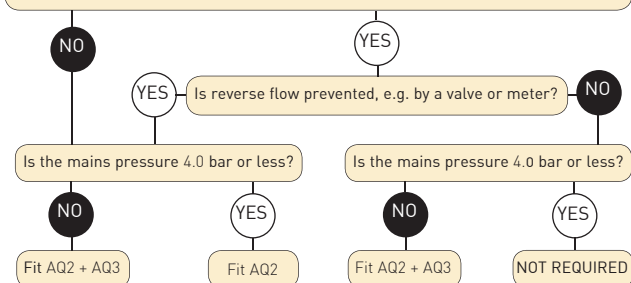
#### AQ3

Combined pressure reducer (set at 3.5 bar) and line strainer

## Varipoint & Aquapoint

### Unvented Accessory Selection

Will the pipework accommodate expanded water without hot water entering any supply pipe connected to a cold water draw-off? (See diagram A opposite and note minimum pipe lengths). If expansion in the cold water main is restricted, e.g. by a valve or meter, an expansion vessel and other relevant accessories **MUST** be fitted.



### Additional Accessories



#### AQ1

Pressure and temperature relief valve (7 bar/90°C).

Provides additional levels of safety when fitted as shown in Diagram D.

Note: Varipoint supplied with AQ1, order AQ1 separately for use with Aquapoint.



#### AQ4 (TMV2 & TMV3 rated)

Thermostatic blending valve complete with 2 check valves. (Set temp range 30° to 65°C).

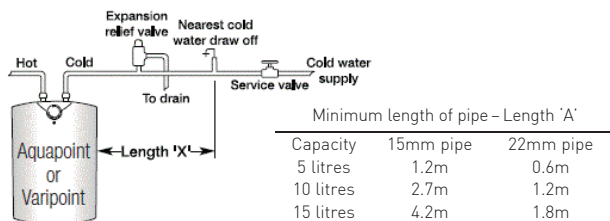
## Zip Accessories

### Unvented water heating

#### 5, 10 & 15 litre capacity

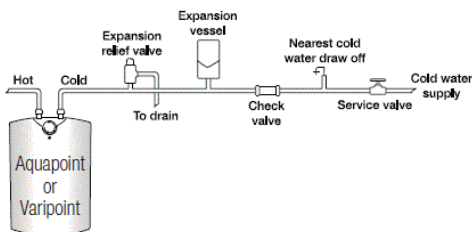
##### Diagram A

Inlet pressure less than 4 bar and expanded hot water can be accommodated in the pipe work.



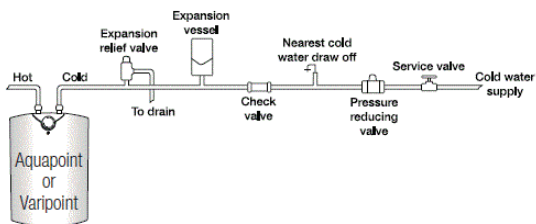
##### Diagram B

Inlet pressure less than 4 bar but expanded hot water cannot be accommodated in the pipe work. (Install AQ2 expansion vessel and check valve).



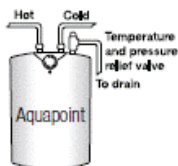
##### Diagram C

Inlet pressure greater than 4 bar. (Install AQ2 expansion vessel and check valve with AQ3 pressure reducer).



##### Diagram D

Temperature and pressure relief valve (AQ1)



# Zip Aquapoint III®

## Unvented water heater

### Multiple outlet 30, 50, 80 & 100 litre

#### Features and benefits

- Glass lined steel inner container tested to 13 bar.
- Sacrificial anode for protection against corrosion.
- Element 'ON' neon indicator.
- External temperature control with frost protection.
- High performance foam insulation.
- Factory fitted P&T valve.
- Element replacement can be carried out without draining.

#### Accessories (supplied)

Pressure reducing valve set to 3.5 bar and line strainer.

Expansion relief, set to 6 bar and single check valve.

Pressure and temperature relief valve set to 7 bar and 90°C.

External expansion vessel pre-charged to 3.5 bar.

Tundish and wall brackets.

#### Capacities

30, 50, 80, & 100 litre.

#### Rating

3.0 kW @ 230V.

#### ErP rating

AP3/30 - Class C; AP3/50-100 Class D

#### Heating element

Dry pocketed tubular.

#### Thermostat

Capillary type adjustable 9°C to 75°C.

#### Inner container

1.8mm glass enamelled steel tested to 13 bar.

#### Case

Corrosion resistant white enamelled steel.

#### Insulation

High density, CFC-free polyurethane foam.

#### Warranty

One-year on site parts and labour, visit [www.zipindustries.co.uk/warranty-policy](http://www.zipindustries.co.uk/warranty-policy)

#### Approvals

WRAS, CE endorsed.

#### Safety features

Manually resettable safety cut-out. Heater protected against freezing while power on. Fitted pressure and temperature relief valve designed to operate at 7 bar and 90°C. Expansion relief valve set to operate at 6 bar.

#### Installation

Installation by a qualified installer in accordance with all national and local Building Regulations. Wall-mounted – please ensure that the wall and fixings are strong enough to take the weight of the water heater when full.

#### Plumbing

Water connections ½" BSP. Minimum recommended water pressure 1 bar. Unit supplied with full installation kit (see Accessories). P&T and expansion relief valves require plumbing to waste in accordance with water authority bylaws. Sacrificial anode for added protection for element and inner container in aggressive water conditions – requires regular inspection and replacement when necessary.

#### Electrical

To be wired to a double pole switched fused spur with a minimum break capacity of 13 amps. Installation must comply with current IEE regulations. Element can be changed without draining down.



Product Code	Nominal Capacity Litres	Weight Full (kg)	ErP Class	Dimensions W x D x H (mm)
--------------	-------------------------	------------------	-----------	---------------------------

#### Zip Aquapoint II

AP3/30	30	48	C	420 x 445 x 525
AP3/50	50	73	D	420 x 445 x 690
AP3/80	80	106	D	420 x 445 x 950
AP3/100	100	129	D	420 x 445 x 1125

# Zip Varipoint III®

## Unvented water heater

**Multiple outlets**  
**30, 50, 80, 100 litre**

### Features and benefits

- Heavy gauge copper inner container, tested to 12 bar.
- Five year warranty on inner container, two years on other components.
- Does not require an anode.
- Supplied with factory fitted P&T valve and full installation fitting kit.
- External temperature control
- High performance foam insulation.

### Accessories (supplied)

Pressure reducing valve set to 3.5 bar and line strainer.

Expansion relief valve set to 6 bar and single check valve.

Pressure and temperature relief valve set to 7 bar and 90°C.

External expansion vessel pre-charged to 3.5 bar.

Tundish and wall brackets.

Tee piece and drain valve.

Expansion vessel capacity

VP303/VP503 = 5 litre

VP803/VP953 = 8 litre

### Capacities

30, 50, 80 & 100 litre.

### Rating

2.7 kW @ 230V.

### ErP rating

Class C

### Heating element

Replaceable embedded rod type.

### Thermostat

Capillary type adjustable  
37°C to 75°C.

### Inner container

Heavy gauge copper tested to 12 bar.

### Case

Corrosion resistant white enamelled steel.

### Insulation

High density, CFC free polyurethane foam.

### Warranty

Five-year on site parts and labour warranty on inner container, two years on other components. Visit [www.zipindustries.co.uk/warranty-policy](http://www.zipindustries.co.uk/warranty-policy)

### Safety features

Manually resettable safety cutout.

Heater protected against freezing while power switched on.

Factory fitted pressure and temperature relief valve designed to operate at 7 bar and 90°C.

Expansion relief valve set to operate at 6 bar.

### Installation

For installation by a qualified installer in accordance with all national and local Building Regulations.

Wall-mounted – please ensure that the wall and fixings are strong enough to take the weight of the water heater when full.

### Plumbing

Water connections ½" BSP.

Minimum recommended water pressure 1 bar.

Unit supplied with full installation kit (see Accessories) P&T and expansion relief valves require plumbing to waste in accordance with water authority bylaws.

### Electrical

To be wired to a double pole switched fused spur with a minimum break capacity of 13 amps. Installation must comply with current IEE regulations.



Product Code	Nominal Capacity Litres	Weight Full (kg)	ErP Class	Dimensions H x Diameter (mm)
Zip Varipoint III				
VP303	30	49	C	620 x 430
VP503	50	72	C	808 x 430
VP803	80	109	C	946 x 485
VP953	100	134	C	1091 x 485

# Zip AquaFlo II®

## Unvented water heater

### Unvented stainless steel cylinders 90 to 300 litre capacity

#### Features and benefits

- Wide range of capacities from 90 litres up to 300 litres.
- High grade Duplex Stainless Steel Unvented Cylinder for long life.
- Incoloy immersion elements provide excellent corrosion resistance.
- Titanium replacement elements available for high use applications.
- Compact coil-in-coil heat exchangers provide fast heat up and recovery.
- Multi-element options for faster heat up.
- High performance insulation ensures minimum heat loss.
- External expansion for optimum reliability, more usable space and ease of maintenance.
- No sacrificial anode.
- 22mm compression connections for ease of installation.
- Cylinders tested to 15 bar.
- 25 year transferable cylinder warranty.
- Two year warranty on all other components.
- Fully approved to UK Water Regulations and Buildings Regulations Part G3 and Part L.

#### Construction

- Direct, indirect and solar compatible unvented water heaters.
- Corrosion resistant Duplex Stainless Steel cylinder.
- High performance, low profile coil-in-coil heat exchanger.
- High performance CFC free injected polyurethane foam insulation.
- White plastic coated steel case resistant to scuffs and damage.
- External expansion for reliability and ease of maintenance.
- Cylinder pressure tested to 15 bar.

#### Installation

For installation by a qualified installer in accordance with all national and local Building Regulations.

Intended for floor standing only – refer to Technical Data for weight when full.

#### Nominal Capacity

Direct and Indirect units: 90, 120, 150, 180, 210, 250 and 300 litres. Solar Twin Coil and Solar Direct units: 150, 180, 210, 250 and 300 litres.

#### Immersion Elements

Incoloy construction 1¾" thread. Length 14" Loading 3kW @ 240V.

#### Heat Exchanger

22mm low profile, high efficiency stainless steel coil-in-coil.





### Controls

Thermostat – adjustable up to 65°C.  
 Over temperature safety cut-out – re-settable. Operates at 85°C.  
 Expansion relief valve – 6 bar.  
 Temperature and pressure relief valve – 90°C and 7 bar.  
 Tundish.  
 Two way valve with indirect models.  
 Pressure reducing valve – 3 bar.  
 Expansion vessel – pre-charged to 3 bar.

### Plumbing

For connection to 22mm mains potable water supply.  
 Minimum water supply 1.5 bar, 20 l/min.  
 Maximum water supply pressure 12 bar.

### Electrical

To be wired to a suitably rated double pole fused spur.  
 Installation must comply with current IEE regulations.

### ErP rating

See table on page 85

### Approvals

WRAS approved to UK Water Regulations.  
 NSF - WRC approved to UK Building Regulations Part G3 and Part L.  
 BEAB approved and CE endorsed.  
 KIWA approved

### Warranty

25 years on cylinder transferable (conditions apply).  
 2 years on all other components.  
 Visit [www.zipindustries.co.uk/warranty-policy](http://www.zipindustries.co.uk/warranty-policy).

# Zip AquaFlo II®

## Unvented water heater

**Unvented stainless-steel cylinders 90 to 300 litre capacity**

### AquaFlo Direct

Product Code	Nominal capacity (L)	Height (mm) x 545 Dia	Weight empty (kg)	Weight when full (kg)	Vol within 10°C of set temp (L)	Heat up 3kW (mins)
AF3090	90	767	21	111	73	76
AF3120	120	955	26	146	102	103
AF3150	150	1142	33	183	133	134
AF3180	180	1330	38	218	163	164
AF3210	210	1518	41	251	194	203
AF3250	250	1768	46	296	236	248
AF3300	300	2041	55	355	288	323
AF3150S*	150	1142	33	183	133	134
AF3180S*	180	1330	38	218	163	164
AF3210S*	210	1518	41	251	194	203
AF3250S*	250	1768	46	296	236	248
AF3300S*	300	2041	55	355	288	323

\* Supplied with 3 elements and 4 bosses - 3 at low level and 1 at high level.

### AquaFlo Indirect

Product Code	Nominal capacity (L)	Height (mm) x 545 Dia	Weight empty (kg)	Weight when full (kg)	Vol within 10°C of set temp (L)	F
AF4090	90	767	23	111	74	
AF4120	120	955	30	148	105	
AF4150	150	1142	38	186	132	
AF4180	180	1330	42	220	160	
AF4210	210	1518	45	253	188	
AF4250	250	1768	51	299	232	
AF4300	300	2041	60	357	285	

### AquaFlo Solar Compatible

Product Code	Nominal capacity (L)	Height (mm) x 545 Dia	Weight empty (kg)	Weight when full (kg)	Vol within 10°C of set temp (L)	Primary coil rating (kW)
Solar Twin Coil						
AF5150	150	1142	40	187	132	17.49
AF5180	180	1330	45	222	160	18.85
AF5210	210	1518	48	255	188	17.18
AF5250	250	1768	53	300	232	19.00
AF5300	300	2041	63	359	285	20.87
Solar Direct						
AF6150	150	1142	38	186	132	-
AF6180	180	1330	42	220	160	-
AF6210	210	1518	45	253	188	-
AF6250	250	1768	51	299	232	-
AF6300	300	2041	60	358	285	-

Actual performance when installed will vary considerably dependant on the rate of solar primary or other renewable input, number of panels etc.

	Heat up 6kW (mins)	Heat up 9kW (mins)	Boost re-heat (mins)	Low level immersion elements	High level immersion elements	ErP rating Class
	-	-	-	1	0	D
	-	-	58	1	1	D
	-	-	72	1	1	D
	-	-	82	1	1	D
	-	-	96	1	1	D
	-	-	117	1	1	D
	-	-	145	1	1	D
	73	57	72#	3 or 2	0 or 1	D
	88	67	82#	3 or 2	0 or 1	D
	108	80	96#	3 or 2	0 or 1	D
	130	95	117#	3 or 2	0 or 1	D
	168	120	145#	3 or 2	0 or 1	D

Additional elements are available for the 4th boss.

# If using high level element

	Primary coil rating (kW)	Recovery indirect (mins)	Boost re-heat (mins)	Low level immersion elements	High level immersion elements	ErP rating Class
	15.73	12	-	1	0	B
	15.63	16	-	1	0	B
	16.33	17	-	1	0	B
	15.90	20	-	1	0	B
	18.15	22	-	1	0	C
	17.80	25	117	1	1	C
	19.55	34	145	1	1	C

	Solar Heat Exchanger (kW)	Dedicated solar capacity (L)	Recovery solar (mins)	Boost re-heat (mins)	Low level immersion elements	High level immersion elements	Standing Loss (kWh/day)
	16.33	50	25	12#	0	1	B
	15.90	60	26*	15#	0	1	B
	17.50	70	31*	16#	0	1	C
	17.80	90	33*	20	0	1	C
	19.35	100	41*	25#	0	1	C
	16.35	50	25*	72	1	1	B
	15.90	60	26*	82	1	1	B
	17.50	70	31*	96	1	1	C
	17.80	90	33*	117	1	1	C
	19.35	100	41*	145	1	1	C

\* Re-heat times based on BS12897 parameters with an 80°C flow at 15 l/min. # Using Indirect heat exchanger

## Zip Tudor II®

### Over-sink or under-sink water heater

#### Open outlet for single point of use 5, 10 litre

##### Features and benefits

- Open outlet heater, for single point of use.
- Externally adjustable temperature control, with frost protection.
- Manually re-settable cut-out.
- Over-sink models supplied with spout and valve.
- Under-sink models for connection to Zip open outlet tapware only.
- Supplied with 1 metre of pre-wired cable.
- CFC-free insulation.
- Impact resistant, easy clean, white plastic casing.
- Neon element-on indicator light.
- Choice of 5 and 10 litre capacities.
- Supplied with wall plugs and screws.

##### Rating

2.0 kW @ 230V.

##### ErP rating

Class A

##### Heating element

Embedded rod type.

##### Thermostat

Capillary type, adjustable 9°C to 75°C.

##### Inner container

Polypropylene.

##### Case

Impact resistant plastic.

##### Insulation

Moulded CFC-free polystyrene.

##### Approvals

WRAS, CE endorsed.

##### Warranty

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

##### Operation

Externally adjustable temperature control.

Neon light indicates when the element is 'ON'.

##### Safety features

Open-outlet non-pressurised system.

Heater protected against freezing while power switched on.

Manually re-settable over-temperature safety cut-out.

##### Installation

Supplies hot water to a single outlet using spout or Zip vented taps. No need for expansion vessel or expansion relief valve. Screws and wall fixings provided.

##### Plumbing

Can be connected to a rising main or to a cistern with a minimum working head of 3 metres.

Over-sink models are supplied with a 300mm open outlet spout and control valve.

Under-sink models must only be connected to Zip open-outlet taps (see page 96).

Over-sink and under-sink models are NOT interchangeable.

##### Electrical

To be wired to a double pole switched fused spur with a minimum break capacity of 13 amp. Installation must comply with current IEE regulations.



Product Code	Nominal Capacity Litres	ErP Class	Dimensions W x D x H (mm)
--------------	-------------------------	-----------	---------------------------

#### Zip Tudor II Over-sink

P4/52	5	A	255 x 215 x 390
P4/102	10	A	310 x 265 x 440

#### Zip Tudor II Under-sink

P4/52UB	5	A	255 x 215 x 390
P4/102UB	10	A	310 x 265 x 440

## Zip Contract II®

### Over-sink water heater

**Open outlet for single point of use**  
**5, 10 litre**

#### Features and benefits

- Open outlet over-sink water heater for single point of use.
- External temperature control with frost protection.
- Over temperature safety thermal fuse (C2/50 and C2/100).
- Remotely resettable over temperature protection (C3/50).
- Supplied with inlet control valve and swivel outlet spout.
- Impact resistant, easy clean, white plastic casing.
- CFC-free insulation.
- Choice of 5 or 10 litre capacity.

#### Capacities

5 litre, 10 litre.

#### Rating

2.0 kW @ 230V.

#### ErP rating

Class A

#### Heating element

Embedded rod type.

#### Thermostat

Capillary type adjustable  
 9°C – 75°C.

#### Inner container

Polypropylene.

#### Case

Impact resistant white plastic.

#### Insulation

Moulded, CFC free Polystyrene.

#### Approvals

WRAS, CE endorsed.

#### Warranty

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

#### Safety features

Safety cut out in the event of a thermostat failure.

Heater protected against freezing while power switched on.

#### Installation

All models should be wall mounted.

Screws and wall fixings provided.

#### Plumbing

Can be connected to a rising main or to a cistern with a minimum working head of 3 metres.

Supplied with a 300mm open outlet spout and water control valve.

#### Electrical

To be wired to a double pole switched fused spur with a minimum break capacity of 13 amp. Installation must comply with current IEE regulations.

## Zip Accessories

### Vented Point of Use



\*UB/1

Monobloc mixer



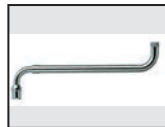
\*UB/6

Single lever basin tap



\*UB/7

Single lever sink tap



TS/1

Telescopic spout  
 350-600mm

\*For use with Zip Tudor P4/52UB and P4/102UB



C2/50  
C2/100



C3/50

Product Code	Nominal Capacity Litres	ErP Class	Dimensions W x D x H (mm)
Zip Contract			
C2/50	5	A	255 x 215 x 390
C2/100	10	A	310 x 265 x 440
*C3/50	5	A	255 x 215 x 390

\*Specialist product for temporary site applications with remotely resettable over-temperature protection. For details contact Zip Technical support.

**Zip RCH®****Cistern-type water heater****Single or multiple outlet  
25, 50, 75, 100 litre****Features and benefits**

- Patented design ensures the temperature of the water in the cistern tank is maintained within current regulatory limits.
- Simple to install and maintain.
- Trouble free operation
- Choice of 4 capacities.

**Capacities**

25, 50, 75 &amp; 100 litre.

**Rating**3.0 kW @ 240V  
(6.0 kW option on 100 litre).**ErP rating**

Class D

**Heating element**

Embedded rod.

**Thermostat**

Adjustable. Factory set at 60°C.

**Water tank**

Hot water tank and cold water feed cistern are both manufactured from copper sheet with brazed seams.

**Case**

Corrosion resistant, white enamelled steel.

**Insulation**

Fully fire-retardant foiled urethane core.

**Safety features**

Over temperature cut-out.

**Approvals**

Immersion element/thermostat BEAB/NEMCO approval and CE endorsed.

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

Should be mounted on a wall at least one metre above the highest draw-off point. Wall and fixings should be adequate to support the weight of the heater when full. Heater to be fixed using the integral wall mounting bracket. Top clearance of 150mm must be allowed for access to the ball valve in the cistern tank. Bottom clearance of 250mm must be allowed for withdrawal of the heating element.

**Plumbing**

Cold inlet, left or right hand connection, ½" BSP.  
Hot outlet, from base of heater, 22mm compression fitting.  
Drain connection, supplied and fitted.  
Overflow, left or right hand connection, 22mm compression fitting.  
Ball valve is for mains pressure operation, brass body to BS1212-2.

**Electrical**

To be wired to a double pole switched fused spur with a minimum break capacity of 13 amp.  
RCH 100/6 should be provided with its own dedicated supply.  
Installation must comply with current IEE regulations.  
The cross sectional area of the connection cable must be in accordance with the power rating of the appliance.





Product Code	Nominal Capacity Litres	Weight Full (kg)	ErP Class	Dimensions W x D x H (mm)
Zip RCH				
RCH25	25.0	53	D	470 x 210 x 705
RCH50	50.0	106	D	600 x 320 x 750
RCH75	75.0	136	D	600 x 320 x 925
RCH100	100.0	164	D	600 x 320 x 1080
RCH100/6	100.0	164	D	600 x 320 x 1080

## BIM



Building information modelling (BIM) is a process involving the generation and management of digital representations of physical and functional characteristics of places.

Building information models (BIMs) are files (often but not always in proprietary formats and containing proprietary data) which can be exchanged or networked to support decision-making about a place.

Current BIM software is used by individuals, businesses and government agencies who plan, design, construct, operate and maintain diverse physical infrastructures, such as water, wastewater, electricity, gas, refuse and communication utilities, roads, bridges and ports, houses, apartments, schools and shops, offices, factories, warehouses and prisons.

Zip are totally committed to the BIM concept and are determined to provide our customers with a comprehensive support mechanism that enables them to effectively incorporate Zip products into their design concepts.

## Downloads



BIM material is available to our customers in four file formats:

- rfa.** for Revit software
- ifc.** for alternative architectural software
- igs.** for solid engineering 3D software
- dwg.** for Autocad and alternative 2D software.

Any of these formats are available for downloading through the product pages of the Zip website, **www.zipindustries.co.uk** Please note that the files can only be opened, viewed and used through the appropriate design software.

There is also a facility to view a **pdf** file, which, when you left click and 'drag' the mouse, will enable the image to be viewed on a 360<sup>0</sup> scale.

The download area of the product pages available on the Zip website **www.zipindustries.co.uk** also gives access to case studies, technical specification sheets, O&M manuals and brochures.

If you have any queries concerning BIM files or other downloads, please contact us on **0345 6 005 005**.

# Zip Hot Water

## Typical applications

Application (up to)	Suggested Zip Products
Single hand-wash	ES3*, ES4* & ES6*
1 basin	CEX*, AP3/05, AP3/05/OB, P4/52, P4/52UB, C2/50
1 sink	CEX*, DEX123*, AP3/30, VP303
2 basins	CEX*, DEX12*, AP3/10, AP3/10/OB, VP103, VP103UB
3 basins	AP3/15, AP3/15/OB, VP153, VP153UB
1 basin, 2 sinks	RCH25
3 basins (heavy use) or 2 sinks	DEX*, DBX*
1 shower	DEX*, DBX*
1 bath & shower	DEX*, DBX*, AP3/80, VP803, RCH75
Bed-sit	DEX*, DBX*, AP3/100, VP953, AF3120, AF4090, RCH100
1 bath & shower (1-2 beds)	DEX*, DBX*, AF3150, AF4120
1 bath & shower (3 beds)	AF3180, AF4150
1 bath & shower (4 beds)	AF3210, AF4180
1 bath & shower (5 beds)	AF3250, AF4210
1 bath & shower (6 beds)	AF3300, AF4250
<p>* These application suggestions are based upon the assumption that the incoming water supply temperature is 12°C.</p>	
<p>For further advice on product selection please call our technical department on 0345 6 005 005</p>	

# Zip Hot Water

## General Data

### Useful formulae

$$\text{Time to heat stored water (mins)} = \frac{\text{Litres} \times \text{Temp Rise (}^{\circ}\text{C)}}{\text{kW rating} \times 14.3}$$

$$\text{Temperature rise with an instantaneous water heater (}^{\circ}\text{C)} = \frac{14.3 \times \text{kW rating}}{\text{Litres/min flow}}$$

$$\text{Temperature Degrees Celsius} = \frac{(^{\circ}\text{F} - 32)}{1.8}$$

$$\text{Degrees Fahrenheit} = (^{\circ}\text{C} \times 1.8) + 32$$

$$\text{Degrees Kelvin} = (^{\circ}\text{C} + 273.2)$$

### Conversion factors

$$\begin{aligned} \text{Pressure} \quad 1 \text{ Bar} &= 14.5 \text{ psi} \\ &= 100 \text{ kiloNewtons/m}^2 = 100 \text{ kPa} \\ 1 \text{ psi} &= 7 \text{ kPa} \end{aligned}$$

Heat 1 kiloCalorie (kCal) is the amount of energy required to raise 1kg of water through one degree Celsius

Zip Heaters (UK) Ltd reserves the right to modify the specification of its products without notice and makes every effort to maintain the accuracy of information contained in this publication.

The terms 'Zip', 'HydroTap', 'Hydroboil', 'Econoboil', 'Chilltap', 'Chillmaster', 'Wall Fountain', 'Chill Fountain', 'Aquapoint', 'Varipoint', 'AquaFlo', 'Inline ES', 'InLine', 'Tudor', 'Contract' and 'RCH' are all registered trademarks.

## Notes

## Notes

## Notes



## Notes

## Notes

## Notes

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