



INSTALLATION INSTRUCTIONS –  
POINT OF USE WATER HEATERS

**EPU - US10**

**EPU - US15**



# 01

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## SPECIAL INFORMATION

The appliance may be used by children aged 8 and older and persons with reduced physical, sensory or mental capabilities or a lack of experience and know-how, provided that they are supervised or they have been instructed on how to use the appliance safely and have understood the resulting risks. Children must never play with the appliance. Children must never clean the appliance or perform user maintenance unless they are supervised.

When permanently connected to the power supply using a dedicated junction box, the appliance must be able to be isolated from the mains power supply by an isolator that disconnects all poles with at least 3 mm contact separation.

The power cable may only be replaced (for example if damaged) by a qualified contractor.

Secure the appliance as described in chapter "Installation".

# GENERAL INFORMATION

The chapters "Special Information", "Safety" and "Maintenance" are intended for both the user and qualified contractors.

The chapters "Installation" are intended for qualified contractors.

## Note

Read these instructions carefully before using the appliance and retain them for future reference.

Instructions should be left with the product or customer.

## Safety instructions

### Structure of safety instructions



Type of risk

Here, possible consequences are listed that may result from failure to observe the safety instructions.

»» Steps to prevent the risk are listed.

Symbols, type of risk

Symbol	Type of risk
	Injury
	Electrocution
	Burns (burns, scalding)

Keywords

KEYWORD	Meaning
DANGER	Failure to observe this information will result in serious injury or death.
WARNING	Failure to observe this information may result in serious injury or death.
CAUTION	Failure to observe this information may result in non-serious or minor injury.

Other symbols in this documentation



Note

General information is identified by the adjacent symbol.

»» Read these texts carefully.

Symbol	
	<b>Material losses</b> (appliance damage, consequential losses and environmental pollution)
	<b>Appliance disposal</b>

This symbol indicates that you have to do something. The action you need to take is described step by step.

## UNIT OF MEASUREMENT



Note

All measurements are given in mm unless stated otherwise.

# SAFETY

## Intended use

This appliance is intended for domestic use. It can be used safely by untrained persons. The appliance can also be used in a non-domestic environment, e.g. in a small business, as long as it is used in the same way.

Any other use beyond that described shall be deemed inappropriate. Following of these instructions and of instructions for any accessories used is also part of the correct use of this appliance.

## General safety instructions



### WARNING Burns

During operation, the tap can reach temperatures in excess of 60 °C.

There is a risk of scalding at outlet temperatures in excess of 43 °C.



### WARNING Injury

The temperature selector should only be removed by a qualified contractor.



### WARNING Injury

The appliance may be used by children aged 8 and older and persons with reduced physical, sensory or mental capabilities or a lack of experience and know-how, provided that they are supervised or they have been instructed on how to use the appliance safely and have understood the resulting risks. Children must never play with the appliance. Children must never clean the appliance or perform user maintenance unless they are supervised.



Material losses

The user should protect the appliance, the water pipes and the tap against frost.

### **Test symbols**

See type plate on the appliance for information.

## APPLIANCE DESCRIPTION

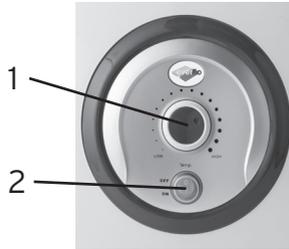
### Introduction

This product is a high-efficiency heat generator for hot water production running on electric power and regulated by an advanced temperature setting system.

The water heater is equipped with an over-pressure and over-temperature protection.

### Operation

You can set any required DHW outlet temperature variably at the temperature selector.



1. Temperature control knob
2. On/Off switch with indicator

Depending on the system, the actual temperatures may vary from the set value:

LOW = Cold 35°C

HIGH = Highest selectable temperature 75°C

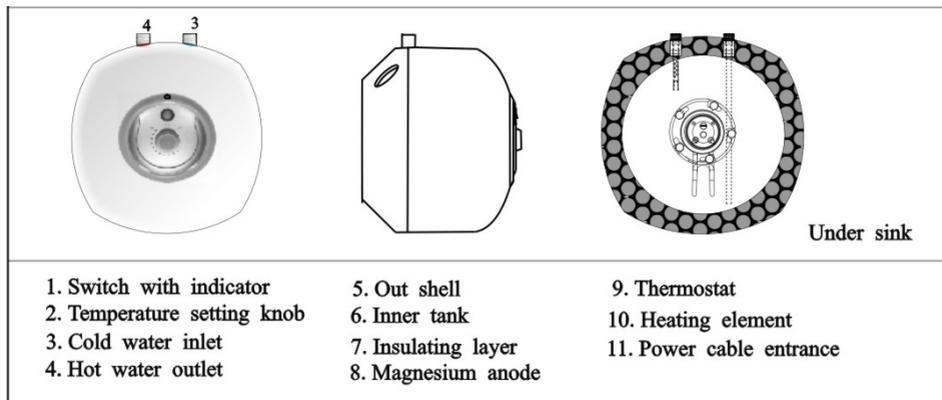
## CLEANING, CARE AND MAINTENANCE

Never use abrasive or corrosive cleaning agents. A damp cloth is sufficient for cleaning the appliance.

Almost every type of water will deposit limescale at high temperatures. This settles inside the appliance and affects both the performance and service life. The heating elements should therefore be descaled if necessary.

A qualified contractor who is aware of the local water quality will tell you when the next descaling is due.

# APPLIANCE DIMENSIONS



	EPU - US10	EPU - US15
WIDTH (A)mm	330	360
DEPTH (B)mm	291	329
HEIGHT (C)mm	347	375

## INSTALLATION - FIXING TO WALL

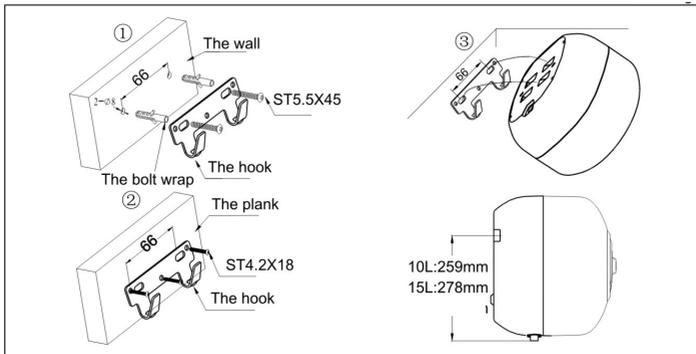
If installing on a wall, drill two 8mm diameter holes on the wall.

The hole centres should be 66mm apart and level.

Use the appropriate wall plugs for the wall surface. Mount the bracket to the wall with suitable screws.

Alternatively, if the wall is not strong enough to support the unit, use a wooden baton to support the bracket and fix the baton to the wall at a suitable point.

Ensure the position of the bracket leaves enough clearance to mount the unit and connect the pipework.



### Note



Ensure that the appliance is freely accessible for maintenance work.

## INSTALLATION - WATER CONNECTION

Run cold feed water to the the unit. Connect isolation valve prior to the unit.

Flush the pipework before connection to the unit.

Connect to the cold feed via the pressure relief valve.

Connect from the hot outlet on the hot water fittings.

Having completed the connections, open hot water tap before to opening the isolation valve feeding the unit.

After a few minutes water will run from the hot tap. Allow the flow to continue to ensure all air is bled from the pipework. Close the hot water tap.

When hot open relief valve to ensure water discharges safely to drain.

## INSTALLATION - WATER PRESSURE

The product **MUST** be fitted with a Pressure Relief Valve. The factory fitted Temperature/ Pressure Relief Valve can fulfil this function.

Expansion can take place within the cold water supply provided that both :

- a) Backflow in the main is not prevented by any stop valve with check valve, pressure reducing valve or similar;
- b) Hot water expansion does not enter a branch to a cold water outlet (see Diagram to the right for expansion pipe lengths).

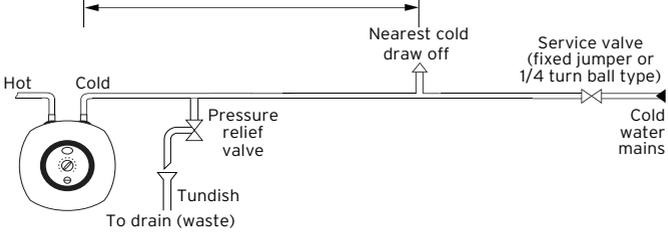
Additionally expansion within the cold water supply will not be possible if the static supply pressure exceeds 0.41 MPa (4.1bar).

If any of the conditions in above cannot be met, expansion must be accommodated using an Expansion Vessel. To ensure all expansion takes place in the vessel a Check Valve must also be fitted together with a Pressure (expansion) Relief Valve (see diagram to the right).

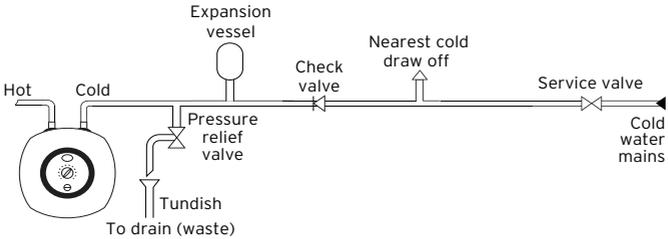
If the static supply pressure exceeds 0.41 MPa (4.1 bar) a Pressure Reducing Valve must be fitted to the cold main supply. If a Pressure Reducing Valve is used, an Expansion Vessel must also be used (see diagram to the right).

**For inlet pressure up to 0.41 MPa (4.1 bar)**

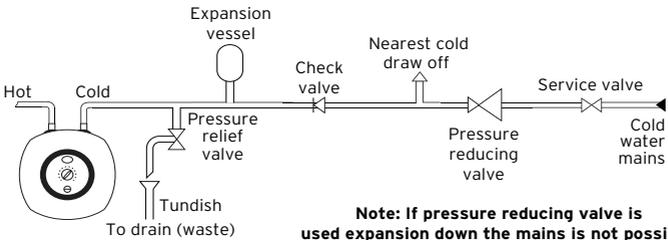
For expansion in pipework:  
 2.8m of pipework is required for the 10 litre model  
 or 4.2m of pipework for the 15 litre model.



**For inlet pressure up to 0.41 MPa (4.1 bar) where expansion in mains supply is not possible**



**For inlet pressure above 0.41 MPa (4.1 bar)**



**Note: If pressure reducing valve is used expansion down the mains is not possible**

## INSTALLATION - ELECTRICAL

Before connection ensure power supply is isolated.



**WARNING** Electrocution

Carry out all electrical connection and installation work in accordance with relevant regulations.



**WARNING** Electrocution

When permanently connected to the power supply using a dedicated junction box, the appliance must be able to be isolated from the mains power supply by an isolator that disconnects all poles with at least 3 mm contact separation.



**WARNING** Electrocution

Ensure that the appliance is earthed.



**Material losses**

The voltage specified on the type plate must match the mains voltage.

Follow the information on the type plate.

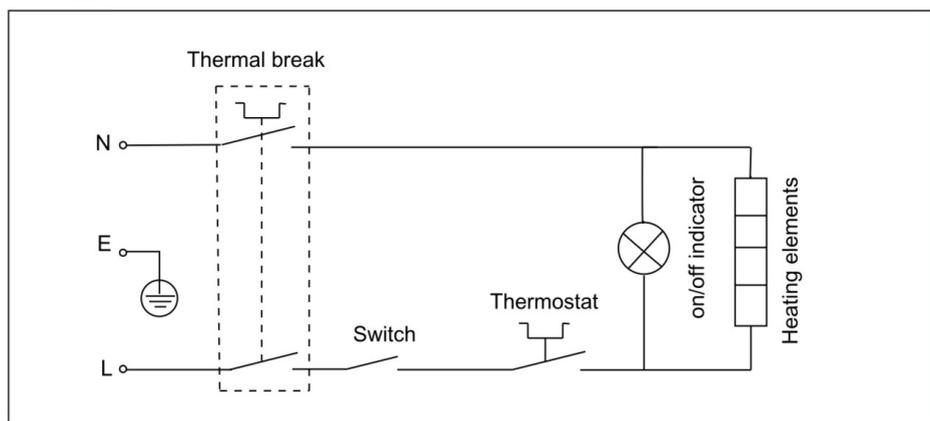
The following electrical connections are permissible:

Permanent connection to a fuse spur with switch and earth conductor.

# INSTALLATION - ELECTRICAL

Connect power supply via switched fused spur.

Run flex through power cable entrance position 11 and connect to the terminal block inside the unit.



# COMMISSIONING

**WARNING** Electrocution

Commissioning may only be carried out by a qualified contractor in accordance with safety regulations.

**Initial start-up**

1. Ensure the unit has been flushed and is full of water.
2. Switch on power at the fused spur.
3. Turn the temperature setting knob to the desired temperature.
4. Check the entire hydraulic installation for tightness.
5. Allow the unit to heat up.
6. Open hot tap and check temperature of water is at desired temperature.

**Note**

If you fail to follow the correct sequence (first water, then power), the high limit safety cut-out will trip.

**WARNING**

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge.

Children should be supervised by a person responsible for their safety to ensure that they do not play with the appliance.

**Appliance handover**

Explain the functions of the appliance to the user. Show the user how to operate the appliance.

Make the user aware of potential dangers, especially the risk of scalding. Hand over these instructions and, if applicable, the instructions for any accessories.

## TROUBLESHOOTING

Problem	Cause	Remedy
No water flows	Cold feed isolation valve closed	Open Valve
	Incorrect connection of pipes	Correct error
	Valve blocked	Clean or replace valve
The appliance does not supply hot water	The temperature selector is set to "LOW".	Switch the appliance ON by turning the temperature selector
	No power at the appliance	Check the plug / fuses in the domestic fuse box
	Appliance is switched off	Turn appliance on
Loud boiling noises inside the appliance	The appliance is scaled up	Have the appliance descaled by a qualified contractor

If you cannot remedy the fault, notify your qualified contractor. To facilitate and speed up your enquiry, please provide the numbers from the type plate.

## SAFETY



Only a qualified contractor should carry out installation, commissioning, maintenance and repair of the appliance.



### **Instructions, standards and regulations**

Note

Observe all applicable national and regional regulations and instructions.

## SHUTDOWN

Isolate the appliance from the power supply by switching off at the fused spur.  
Drain the appliance (see chapter "Maintenance").

# MAINTENANCE



## WARNING Electrocution

Before any work on the appliance, disconnect all poles of the appliance from the power supply.



## WARNING Burns

Hot water may escape during draining.

Dismantle the appliance for maintenance work.

### To drain the appliance

1. Isolate the supply and run water until the water discharging from the tap is cold.
2. Leave the hot tap open.
3. Close the cold feed isolation valve.
4. Open the discharge safety valve and allow the water to drain from the appliance.
5. When the flow stops disconnect the appliance from the hot and cold feed pipe connections.



### Material losses

NOTE: Some water will drain from the pipe so ensure suitable method for catching the water is used.

Water contains micro-impurity and mineral substances.

Deposits will occur on the bottom of the water heater inner vessel. The water heater should be emptied to remove the deposits.

Generally, the heater should be cleaned once per year. For areas of poor water quality or high levels of water hardness, the cleaning should be conducted more frequently.

The unit is fitted with a magnesium anode. This should be replaced when worn. The anode should only be replaced by trained service engineer.

## HEAT UP PROFILE

### Heat-up performance

The heat-up period depends on the degree of scaling and residual heat. Using a cold water supply at 10 °C and a maximum temperature setting 60°C will be achieved in 8 minutes.

### Country-specific approvals and certifications

The test symbols can be seen on the type plate.

### Extreme operating and fault conditions

In the case of faults, a peak temperature up to 100 °C may briefly occur in the system.

### Details on energy consumption

The product data complies with EU Regulations relating to the directive on the ecological design of energy related products (ErP).

## ERP DATA

		EPU - US10	EPU - US15
Load Profile		XXS	XXS
Energy Efficiency Class		B	B
Energy Conversion Efficiency	%	32	32
Annual Electric Consumption	kWh	576	576
Default Temperature Setting	°C	55	55
Sound Power Level	dB(A)	15	15
Daily Power Consumption	kWh	2.781	2.781

### ECO mode

ErP performance has been measured based on the appliances operating in 'ECO' mode. To set the unit to operate in 'ECO' mode, turn the temperature dial to the position shown in the diagram below:



## DATA TABLE

	EPU - US10	EPU - US15
<b>Hydraulic Data</b>		
Nominal capacity (L)	10	14
<b>Electrical data</b>		
Rated voltage	220-240	220-240
Rated output	2kW	2kW
MCB/fuse rating	13A	13A
Phases	1/N/PE	1/N/PE
Frequency	50/60	50/60
<b>Application limits</b>		
Max. permissible pressure (Mpa)	0.8	0.8
<b>Versions</b>		
IP rating	IPX4	IPX4
Type	UNVENTED	UNVENTED
Internal cylinder material	GLASS LINED	GLASS LINED
Colour	White	White
<b>Connections</b>		
Water connection	G1/2 A	G1/2 A
Weight full	17kg	22kg

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## **GUARANTEE TERMS & CONDITIONS**

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This product is guaranteed against faulty materials and manufacture for a period of one year from the date of purchase. In the event of issues with the product the customer shall return the product to the merchant from where the product was originally supplied. No on-site field support is offered for this product.

**The Guarantee is valid provided that:**

1. The appliance has been installed by a competent person in accordance with the installation, user instructions, all relevant Codes of Practice and Regulations in force at the time of installation and that all necessary controls and safety valves have been fitted correctly.
2. The appliance has only been used for heating potable water.
3. The appliance has been maintained as detailed in the Installation and User Instructions.
4. The product has been returned with proof of purchase.

**Exclusions:**

The inner container with integral heating element is not guaranteed against excessive scale build-up.

**The Guarantee is void if:**

1. The appliance has been modified or tampered with in any way.
2. The appliance has been damaged by frost.

Should the product be found to be faulty and all requirements of the Guarantee have been met, the owner should contact the technical helpdesk and identify which location the product will be returned to. A return reference number will be provided. The product can then be returned to store with proof of purchase and the return reference number.

**This guarantee, in no way, affects the statutory rights of the consumer**



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We take every care and precaution to ensure that information in this document is accurate at the point of publish but with continuous product development the details given in this document are subject to alteration without notice.

REF: 025216 Everflo - Under sink 10-15 Unvented Installation Manual - English - January 2018