



# Powerstream Ascari

## Central Heating and Hot Water Flow Boiler

This electric boiler is 99% efficient and provides a versatile and safe way of heating water wherever there's mains electricity. Suitable for unvented wet central heating and domestic hot water systems, the Powerstream Ascari electric boiler can be used as a direct replacement for Gas, Oil, Propane, Solid Fuel or Electric Storage heating\*. The Powerstream Ascari boiler also provides maximum flexibility as it does not require costly servicing, safety checks or a flue.

**Application** Central heating and hot water.

**Key Features** Integral circulation pump and expansion vessel | Auto-adaptability - minimising energy input, smoothes temp. variation of the home and on/off cycling of the boiler | Suitable for sealed and open vented systems, with radiators or underfloor heating | Choice from 10, 8, 6 or 4kW on installation | Compact design - fits into most spaces (including kitchen cupboards) | Low maintenance - no requirement for annual service or safety check (5 year check) | Near silent operation | Selectable heating system water temperature, 21°C-80°C - allows low energy setting of heating | Cast iron engine for thermal stability | Ideal for well insulated properties of up to 80m<sup>2</sup> | 5 litre water storage, for rapid response.

**Safety Features** Min/max control adjusts the water temperature output from the boiler | No flue and no fuel tanks give a safe and flexible installation.

**Rating** 4kW, 6kW, 8kW and 12kW options at installation (230V).

**Element** Stainless steel.

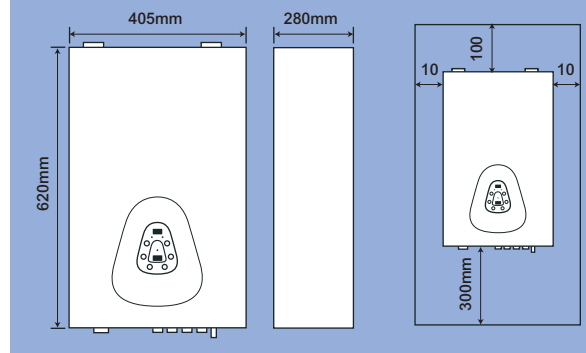
**Outer Casing** White steel casing.

**Pressure** Operating pressure - 0.5bar - 3bar.

**Approvals** CE.

**Guarantee** 3 year guarantee on storage tank and 2 years on components (UK).

### Dimensions and Application



#### Technical Specification

Maximum power 4-12kW | Includes 8 litre expansion vessel, 3bar pressure relief valve and 3-speed pump for quick easy install | 7-segment digital displays of temperature and pressure | Graduated power On/Off reduces instantaneous loads | Frost protection 5°C minimum system temperature | 5 litre water storage | Pump protection, prevents pump sticking | Stainless steel elements | Operating pressure 0.5bar - 3bar | Top or bottom cable entry.

#### Electrical

The Powerstream Ascari should be permanently connected to the electrical supply through a double linked switch with minimum breaking capacity for the loading. All wiring should be installed to conform to the current edition of the IEE Wiring Regulations.

### Product Range

Product Reference	Short Code	Cat. No
<b>Powerstream Ascari</b>	<b>PSA12</b>	<b>45551860</b>

\*Building Regulations apply.

Min. Max. Storage Tank Components

4  
kW

12  
kW

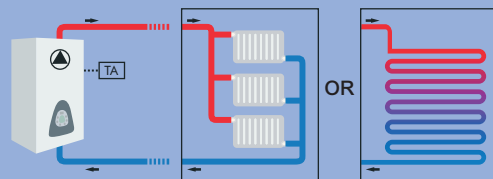
3 yr  
GUARANTEE

2 yr  
GUARANTEE

CE

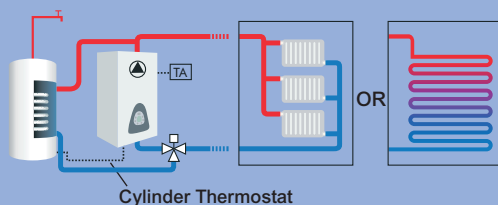
## Plumbing Schemes

### Heating only



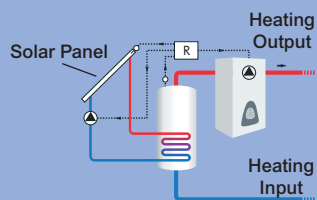
Radiators or floor heating system

### Heating and domestic hot water



Radiators or floor heating system: the mixing valve is not required

### Complementing an alternative energy system



To maintain heating temperature when alternative energy source cannot supply enough heating

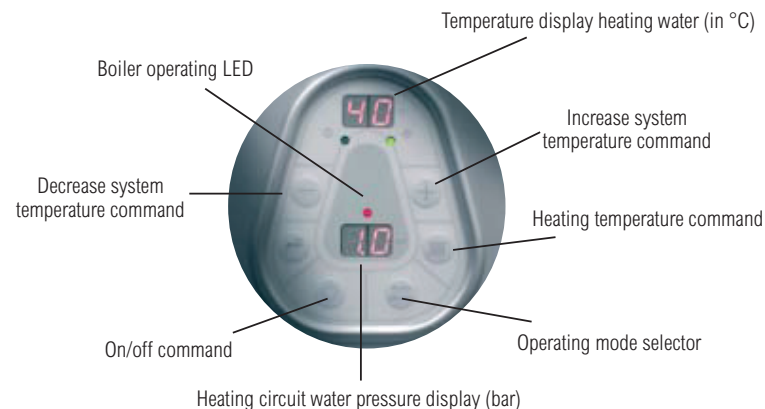
#### Key

TA Programmer and room thermostat  
 3-way valve

Water pump  
 Regulator

## Simple to use controls with digital display

- Intelligent operation for comfort and reduced energy use
- System water temperatures can be selected at install or the Ascari can auto adapt to the requirements of the property, adjusting the water temperature to the optimum setting to reduce energy consumption and smooth the property temperature



### Controls

The Powerstream Ascari boiler has been designed to provide the highest temperature stability and energy consumption possible from an electric boiler. Its 5 litre storage and high thermal mass reduce system cooling, while its electronic temperature and auto-adaptability function keep the room at a stable temperature using the least amount of electrical energy.

The optional outside temperature sensor allows the boiler to quickly adapt to the external temperatures, increasing heat output on cooler days and reducing energy on warmer days, keeping temperature and energy completely under control.

### Running Costs

The Powerstream Ascari boiler is fitted with an auto-adaptability function that operates the central heating system according to the heat characteristics of the property, minimising energy consumption and running costs. The Ascari is designed for use with extended hours off-peak tariffs. Please ask your energy supplier for details of optimum tariffs.

### Filling Loop

The Powerstream Ascari is not fitted with a filling loop. Any filling loop being fitted should comply with the water supply (water fittings) regulations 1999 Section G24.1 and G24.2. A filling loop should be fitted at some point to allow the CH system to be filled.

### Parallel Operation

For larger properties, multiple boilers may be installed in parallel.

### Hot Water Storage

Ask for the Redring Aqualoy LWSS 2304 Duplex Stainless Steel water storage heaters that provide effective, fast and safe hot water for baths, showers and other domestic appliances around any property. For use with direct and indirect heating applications the Aqualoy LWSS cylinders are a high quality vessel employing the best in tig welding technology, the LWSS range also features high flow rates and energy efficient insulation.