



# armfield

## LABORATORY STEAM GENERATOR

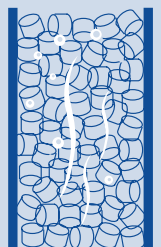
**UOP10**  
issue 7



*As many laboratories do not incorporate a centralised or reliable steam source, Armfield offers an advanced boiler providing a constant supply of steam. The compact unit requires only connection to water and electrical supplies for operation.*

Heat and Mass Transfer Unit Operations

UOP



## DESCRIPTION

The Armfield UOP10 Laboratory Steam Generator comprises a mains fed header tank with level control which supplies the pressure vessel via a quiet running, heavy duty, high pressure feed pump.

The pressure vessel is built to all relevant British and European standards. Being heavily insulated with two totally immersed Incoloy heating elements it provides a highly efficient and economical means of generating a continuous supply of steam.

The two heating elements are individually switched and the unit will operate satisfactorily on a single element.

The integral control panel houses an on/off mains switch with switchable test functions, LEDs display the operational status of the equipment.

The UOP10 is fully safeguarded via MCBs and an RCD (residual current device) to give a long trouble free life.

The components of the UOP10 are mounted within a steel cabinet finished with a high gloss stove enamel paint for corrosion resistance and long life. Front panels are hinged for easy access and are fitted with key operated handles.

It is recommended that for optimum life of the unit, feedwater should be demineralised.

## ORDERING SPECIFICATION

- **A floor standing continuous steam generator.**
- **Splash proof electrical enclosure and switches.**
- **Solid state level control on feed water tank.**
- **Easy and safe access for maintenance and inspection, with door isolator to the main electrical enclosure**
- **Manufactured in accordance with Module G of the European Pressure Equipment directive 97/23/EEC.**
- **A instruction manual is included in the supply.**

## OPTIONAL ACCESSORY

In some countries it is illegal to blow down a steam boiler directly into the drainage system and a separator must be used. Armfield can offer a purpose built separator to fulfill this function. Users should check local regulations on the requirements for this unit.

UOP10-10: Blow Down Separator

## TECHNICAL DETAILS

Steam output at 100°C: 55kg/hr (continuous)  
Heat output: 36kW  
No. of heating elements: 2  
Max. operating pressure: 10 bar

## SERVICES REQUIRED

**Electrical supply:**

UOP10-C: 415V/3ph/50Hz  
UOP10-D: 208V/3ph/60Hz  
UOP10-E: 380V/3ph/50Hz  
UOP10-F: 220v/3ph/60hz

**Water supply:**

1.0l/min @ 2 bar maximum usage

## OVERALL DIMENSIONS

Height: 1.93m  
Width: 0.68m  
Depth: 1.12m

**Note:** Total height of 2.5m is required for access

## SHIPPING SPECIFICATION

Volume: 2.1m<sup>3</sup>  
Gross Weight: 490kg

Specifications may change without notice  
iss7/5k/1107/San.

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