

**Laboratory steam generator – UOP10**

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.



**Features / benefits**

- ▶ Simple controls allow for quick start up and shut down procedures
- ▶ Variable pressure outputs
- ▶ Rapid start up to full pressure and will deliver steam during heating process
- ▶ Automatic top up of feed tank and boiler during normal use
- ▶ Normal domestic water supply sufficient for normal operation
- ▶ Low water and high pressure alarms cut power to heating element to prevent unsafe conditions
- ▶ Dual locks to prevent unauthorised access to boiler internal controls
- ▶ Lock out isolation switch on front of unit for safety during maintenance
- ▶ Rapid and variable blowdown of steam boiler during shutdown of system
- ▶ Pressure relief valves in case of over-pressurisation to prevent energetic discharge

## 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 and featuring 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.

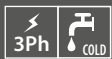
The UOP10 is fully safeguarded via a Magnetic Circuit Breaker (MCB) and a Residual Current Device (RCD) to give a long trouble free life.

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.

## Requirements

## Scale



- ▶ **Electrical supply:** Three phase (see ordering codes)
- ▶ **Water supply:** 1.0l/min @ 2 bar maximum usage

## 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 fulfil this function. Users should check local regulations on the requirements for this unit.

UOP10-10: Blow Down Separator

## Technical specifications

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

## Overall dimensions

Length	1.12m
Width	0.68m
Height	1.93m

Note: Total height of 2.5m is required for access

## Packed and crated shipping specifications

Volume	2.1m <sup>3</sup>
Gross weight	490Kg

## Optional UOP10-10 Blow down separator



## 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/EC
- ▶ A comprehensive instruction manual

## Ordering codes

- ▶ UOP10-C: 415V/3ph/50Hz, 57A
- ▶ UOP10-D: 208V/3ph/60Hz, 112A
- ▶ UOP10-E: 380V/3ph/50Hz, 57A
- ▶ UOP10-F: 220V/3ph/60Hz, 112A
- ▶ UOP10-10: Blow Down Separator

Armfield standard warranty applies with this product

## Knowledge base

- > 28 years' expertise in research & development technology
- > 50 years' providing engaging engineering teaching equipment

Benefit from our experience, just call or email to discuss your laboratory needs, latest project or application.

An ISO 9001:2015 Company



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## Aftercare

Installation  
Commissioning  
Training  
Service and maintenance  
Support: [armfieldassist.com](http://armfieldassist.com)