

Calibration & Test Gas Generators for Chlorine and Chlorine Dioxide

Some gases are difficult or even impossible to obtain reliably in compressed gas cylinder form. This is because these gases are very chemically reactive. They may interact with the cylinder walls or react with other gases in the mixture. Chlorine (Cl_2) and Chlorine Dioxide (ClO_2) are such gases. To overcome these difficulties, CryoService offer a range of gas generators that can reliably and accurately provide calibration and test gases for these reactive gases at low concentration.



GazCal™ Calibration Gas Generator

- Provides 0.2 - 20.0 ppm concentrations in 0.1 ppm steps
- Available in 0.5 & 1.0 litre/minute flowrate options
- Dial-up digital display ensures ease of setting the required ppm level
- Cell life indicator shows effective life of the generation cell
- Mains or rechargeable battery operation
- Internal pump provides air flow
- Rugged construction for the most aggressive environments



GazBump™ Test Gas Generator

- Provides 2 or 10 ppm concentrations
- Available in 0.5 & 1.0 litre/minute flowrate options
- Cell life indicator shows when cell replacement is required
- Battery operation for field application
- Air flow provided by disposable compressed gas cylinder
- Ease of operation enables use by non-technical personnel
- Low cost ensures cost-effectiveness

Application

GazCal™ and GazBump™ can be used to provide reliable laboratory and on-site calibration and test gases for Cl_2 and ClO_2 gas detectors. They ensure correct function of gas detection equipment.

Where can they be used?

- Water treatment
- Swimming pools
- Chemicals Manufacture

How They Work

CryoService gas generators provide low concentrations of calibration gases by using solid-state electrochemical cells. When the instruments are operating, these generating cells produce small quantities of the gas. A closely controlled air flow, provided by a pump or compressed air cylinder, then dilutes the gas to the required concentration.

It is not necessary to have any type of measuring device incorporated into the generator, as an accurate concentration of gas is provided every time. Literally thousands of calibrations can be carried out by one generating cell. Once the effective life of the cell is over, a new generating cell can be installed.

Specification

GazCal™

Concentration range: 0.2 – 20.0 ppm

Flowrates: 0.5 or 1.0 l/min (factory set)

Cell Life: 500 ppm hours

Power supply: 110 or 240V 50/60 Hz mains or internal rechargeable battery

Dimensions: 240(W) x 110(D) x 220(H) mm

Weight: 2 Kg

GazBump™

Concentration range: 2 and 10 ppm

Flowrates: 0.5 or 1.0 l/min (set by choice of regulator)

Cell Life: 500 ppm hours

Power supply: internal battery

Dimensions: 100(W) x 95(D) x 40(H) mm

Weight: 300 g

Test & Calibration Gases

CryoService also supplies:

- Precision certified gas mixtures in a range of refillable cylinders used in all areas of gas detection and analysis, including instrument manufacture, environmental monitoring and process control
- Precision gas mixtures in a variety of lightweight non-refillable cylinders for testing and calibrating gas detection equipment
- A range of regulators and gas control equipment to suit both refillable and non-refillable cylinders
- Claind laboratory UHP gas generators for Hydrogen, Air and Nitrogen



CryoService

CryoService Limited, Warndon Business Park, Worcester WR4 9RH
Telephone 01905 754500 Facsimile 01905 754060
www.cryoservice.co.uk