Detailed Specification

Whitley Jar Gassing System

1. Introduction

The Whitley Jar Gassing System is the most convenient, rapid and cost-effective way to achieve either anaerobic or microaerophilic conditions within a gas jar.

2. Size

Physical dimensions: 200mm x 400mm x 350mm (W x D x H)
Weight: 16kg

3. Gas Requirements

A cylinder of anaerobic gas mixture (10% CO_2, 10% H_2 and 80% N_2) is required. For laboratories that do not have access to a cylinder of anaerobic gas mixture but have an anaerobic workstation running on three separate gases, a gas connection to the workstation chamber can be made to utilise the anaerobic gas mixture containined within.

4. Cost of Usage

Although times will vary according to jar size and whether gas is drawn from a workstation or a cylinder, the Whitley Jar Gassing System costs less than 18p to create anaerobic conditions and less than 3p for microaerophilic – compared with around £1.60 for every gas generation sachet used. (Note: 2011 prices used)

5. System Operation

5.1 The Whitley Jar Gassing System can create an anaerobic environment in under 2 minutes and microaerophilic conditions in just 15 seconds. This compares to between 30 and 180 minutes to achieve suitable conditions using gas generation sachets or kits. (Note: Times quoted are based on using 3.5 litre jars with gas drawn from a cylinder).

5.2 The Whitley Jar Gassing System software will detect if there is either a leak on the jar or a blockage in the tubing. In each case the cycle will be aborted and a message will display on the screen to indicate which fault has occurred.

5.3 The Whitley Jar Gassing System incorporates a colour touchscreen, which is used to select and initiate the different cycles and for the display of all messages.

6. **Anaerobic Jars**
   Although Don Whitley Scientific can provide our own competitively priced jars suitable for anaerobic and microaerophilic work, it is usually possible to use your own jars. We can supply an adaptor kit that will allow you to use a variety of gas jars.

7. **Calibration**
   We offer a calibration service to ensure compliance with regulatory requirements and to provide documented evidence that the instrument continues to operate as it was designed to.

8. **Printing Capability**
   An optional printer can be purchased should you wish to print out data for traceability and accreditation purposes.