



<b>Document Number:</b>	<b>SASoM/EQUIP/009.v2</b>
<b>Title:</b>	<b>Use and Maintenance of the Don Whitley Scientific H35 Hypoxystation</b>
<b>Version:</b>	<b>v2</b>
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Effective from:	01/01/2018
Valid to:	31/12/2022

<b>SOP History</b>		
Number	Date	Reason for Change
V1	01/01/2013	Original
V2	01/01/2018	Update

### 1.0 Purpose –

The purpose of this SOP is to outline the principles of the routine use and maintenance of the Don Whitley Scientific H35 Hypoxystation (Hypoxystation) in Laboratory 248 at the St Andrews School of Medicine (SASoM).

### 2.0 Scope –

This SOP applies to routine use and maintenance of the Hypoxystation within the SASoM.

### 3.0 Responsibilities –

It is the responsibility of all users of the Hypoxystation within the SASoM to comply with this SOP.

### 4.0 Procedure –

#### Principles of Operation:

Check levels of gas cylinders before starting work.

Entry to the Hypoxy work station is through the sleeves and ports. Remove watches and any jewellery – turn rings round finger to avoid puncturing the sleeves. Remove lab coat.

Ensure that black rubber cuff is securely round the wrist to make a good seal. Sleeves must be degassed x 2 before the ports are opened – use the automatic gassing system.



To pass cells etc into the workstation use the airlock. **DO NOT SPRAY MEDIA BOTTLES, HANDS, ETC WITH ETHANOL OR ALCOHOL BASED AGENTS BEFORE USE – THIS DAMAGES THE RUBBER SEALS.**

The airlock must be degassed before it can be accessed via the workstation. To close the internal airlock door, use the clear button on the door edge. All waste should be removed via the airlock at the end of each session.

#### **5.0 Personal protection –**

This unit is a sealed and contained work station; therefore no protective clothing is necessary. Any cuts or puncture wounds should be covered.

#### **6.0 Spillages –**

Always clean up any spills immediately after use.

Only you know what you have spilt and are aware of that chemicals hazard.

Mop up spills with paper towels - **DO NOT USE ETHANOL.**

#### **7.0 General maintenance –**

Clean surfaces of the apparatus with soft cloth and mild detergent.

Internal cleaning to be done as required.

**DO NOT USE ANY ALCOHOL BASED PRODUCT NEAR THE WORK STATION AS SEALS WILL BE ERODED.**

#### **8.0 Maintenance –**

O<sub>2</sub> sensor must be calibrated weekly.

#### **9.0 Training –**

All users have to be trained before using the Instrument by a designated person.



## 10.0 Related documents –

- 10.1 Equipment manual
- 10.2 Equipment Maintenance Log
- 10.3 Equipment Maintenance Information sheet
- 10.4 Risk assessments – RA/GEN/022
- 10.5 SOP - SASoM/EQUIP/010  
Oxygen Calibration of the Don Whitley H35 Hypoxystation
- 10.6 SOP - SASoM/EQUIP/006  
Use and Transport of Gas Cylinders for the Don Whitley H35 Hypoxystation

## 11.0 Approval and sign off –

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