

## Humidifier

### Description

The humidifier is a brushed stainless steel air tight container, with an air inlet and outlet. The humidifier is connected to a breathing machine in order to provide humid air for simulated wearing or dolomite dust clogging testing. The breathing machine forces air through a 'bubble bar' at the bottom of the humidifier. The air then exits the top of the humidifier having collected warm moisture.

The humidifier features an integrated temperature controller which controls the integrated 500W immersion heater. An electronic thermometer is positioned in the humid air flow and the temperature of the water is controlled relative to the temperature of the humid air. An easy drain tap is also fitted to allow easy water changes. A splash head is provided to prevent condensation from progressing too far down the air lines.

This equipment is designed to be operated in conjunction with an INSPEC breathing machine, but can also be used with cyclohexane gas testing equipment in accordance with the applicable standards.

### Services required

Bench mounted

110/230 Volts AC, 50/60Hz, mains electricity

Breathing Machine and tubing for connections

Supply of distilled, deionised or demineralised water

### Approximate size & weight

50 x 30 x 30 cm: 54 kg

### Relevant standards

#### With a breathing machine

AS/NZS 1716:2012, EN 149:2001, EN 1827:1999

#### Cyclohexane testing

AS/NZS 1716:2003, AS/NZS 1716:2012, EN 405:2001+A1:2009, EN 1827:1999+A1:2009, EN 12941:1998+A2:2008, EN 12942:1998+A2:2008, EN 14387:2004+A1:2008, BS 8468-2:2006, DIN 58647-7:1997

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