INSPEC International Limited
56 Leslie Hough Way
Salford, Greater Manchester
M6 6AJ, United Kingdom

Tel: +44 (0) 16 1737 0699
Email: equipment@inspec-international.com

CO_2 Supplementary Test Equipment

(for use with a breathing machine)

Description

The standard equipment set comprises two single channel CO_2 analysers, a flow meter, a non-return valve, four bladders (two to act as compensators and two for the reference gases), a zero-base assembly, a CO_2 absorber and the requisite tubing. The two CO_2 analysers are supplied to provide simultaneous measurements of both the 5% CO_2 concentration and sample CO_2 concentration.



Services required

Bench mounted
110/230 volts AC, 50/60Hz, mains electricity
CO_2 supply cylinder (100% CO_2) and regulator
Reference CO_2 gases (For calibration of the Analysers)
Sheffield head/torso
Breathing machine with auxiliary lung (our machine will come with the necessary solenoid valves)
Additional air-flow duct (dependent upon the standard being tested against)
EN 13274-6 Collar where the device is hood designed to seal around the neck.
A source of soda lime for refilling the CO_2 absorber will also be required

We are able to supply the Sheffield head/torso, breathing machine, additional airflow duct and EN 13274-6 collar.

Take precautions to avoid build-up of carbon dioxide in the testing area by venting bladders away from the area, not leaving the cylinder open for longer than is necessary, and opening a window, as appropriate.

Approximate size

Typically, an area 1300x750mm plus the space for the breathing machine and the gas bottles is required. The gas bottles can be situated under the bench the analysers sit on.

Relevant standards

AS/NZS 1716:2012, clauses 3.2.2 & 8.4.7; EN 136:1998, clause 7.18; EN 138:1994, clause 6.20; EN 140:1998, clause 6.14; EN149:2009, clause 7.12; EN 269:1994, clause 6.17; EN 403:2004, clause 6.15; EN 405:2001, clause 7.14; EN 1146:2005, clause 6.24.3; EN 1827:2009, clause 7.19; EN 12941:2008, clause 6.13; EN 12942:2008, clause 6.13; EN 13274-6:2001, clause 5; EN 14593-1:2018, clause 4.21; EN 14593-2:2005, clause 5.14; EN 14594:2018, clause 5.20

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CO_2 Supplementary Test Equipment (continued)

Set up -with absorber

