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# Breathing resistance measuring equipment

## Description




The basic system comprises a bench mounted air mover (blower / sucker) which is connected by means of flexible PVC tubing, via a regulating valve and variable orifice flowmeter, to the filter to be tested.

A digital manometer is connected upstream of the filter, in order to measure the pressure drop of the filter, relative to atmosphere, at various air flow rates.

For EN 149, the standard specifies that the facepiece is fitted to a Sheffield head (not included). A fixture may be provided in addition to, or instead of, the Sheffield head (please specify). If a fixture is required, please supply specimen facepiece(s) in order for us to manufacture the fixture adaptor(s).

For EN 14387/143, a filter holder incorporating an EN 148-1 female thread is included. If your filter cartridge does not use an EN 148-1 thread then a fixture can be designed to accept "cartridge" type filters of your design. Please supply specimen filter(s) in order for us to manufacture the filter holder(s).

## Technical specification

Bench mounted

| | |
|---|---|
| Supply voltage: | 110/230V (specify when ordering) |
| Supply Frequency: | 50/60 Hz |
| Dimensions: | 750 x 500 x 500mm |
| Weight: | 20 kg |

The rig is designed to operate in the conditions specified by the relevant standards listed below.

Storage conditions should be restricted to 5 to 35°C and <85%RH.

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# Breathing resistance measuring equipment (continued)

## Options

Sheffield Headform
Mask fixture plates
Custom thread adaptors for filter cartridges

### Relevant standards

The equipment complies with the test equipment specified in EN 13274-3:2001 Method 1 and in the following standards, or the standards called up by them:
As supplied: BS 8468-2:2020, EN 142:2002, EN 143:2000, EN 14387:2004
Requires an additional Sheffield headform: EN 136:1998, EN140:1998 EN 149:2001, EN 405:2001, EN 1827:2009