

## 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).

### Services required

Bench mounted  
110/230 volts AC, 50/60Hz, mains electricity

### Options

Sheffield Headform  
Mask fixture plates  
Custom thread adaptors for filter cartridges

## **Breathing resistance measuring equipment (continued)**

### **Approximate size & weight**

75 x 50 x 50 cm & 20 kg

### **Relevant standards**

EN 140 (requires additional Sheffield Headform)  
EN 143, EN14387 (as supplied, with EN 148-1 female thread adaptor)  
EN 149 (requires additional Sheffield Headform & PVC tape)  
EN 405 (requires additional Sheffield Headform)  
EN 1827 (requires additional Sheffield Headform)  
EN 13274-3 method 1