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# Dolomite dust clogging test equipment

## Description

The equipment comprises the chamber, as described in the standards, together with an automatic dust dispenser and air mover to draw air through the chamber.

Also included are an electronic dust deposition indicator, digital manometer, a USB data logger, and 5kg dolomite dust.




The sample is supported in the dust stream by means of a suitable fixture.

Some additional equipment is required for testing, this is specified in the list of relevant standards.

## Services required

Floor mounted
110/230 volts AC, 50/60Hz, mains electricity (specify requirements when ordering)
Instrument quality compressed air, minimum 6bar. Connection via an 8mm push-fitting.
100mm diameter exhaust ducting with no back pressure to the outside of the building, complying with local exhaust regulations.
Anemometer
High performance check filter
Computer with Windows 10 and MS Office installed.
Consumables during testing are dolomite dust and desiccant (periodic, as required).

Dimensions

| Item | Width (mm) | Depth (mm) | Height of working surface (mm) | Height open door (mm) | Weight (kg) |
|---|---|---|---|---|---|
| Assembled Unit | 5300 | 800 | 1100 | 1800 | 300 |

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.

The excess dolomite dust needs to be exhausted from the vicinity of the rig
The rig is noisy whilst running, this is a nuisance and well below any action levels.

The dolomite dust is not reusable, approximately 300g is used during an 8-hour run.

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## Dolomite dust clogging test equipment (continued)

### Relevant standards

| Standard | Use |
|---|---|
| EN 143:2000 | As supplied |
| EN 149:2001 | Requires breathing machine & humidifier |
| EN 405:2001 | As supplied |
| EN 1827:2009 | Requires breathing machine & humidifier |
| EN 12083:1998 | As supplied |
| EN 12941:2008 | Requires breathing machine & Sheffield Headform |
| EN 12942:2008 | Requires breathing machine & Sheffield Headform |
| EN 13274-8:2002 | Requires breathing machine & humidifier for some methods |
| EN 14387:2006 | As supplied |