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Paraffin oil filter penetration test equipment

Description

The equipment comprises a paraffin oil aerosol generator, a light scattering photometer, flowmeters, a test chamber and connecting arrangements. It is generally as described in EN 13274-7:2008 and similar standards but with some deviations including the use of a cold atomiser. Correlation testing with reference filters has been performed to demonstrate equivalent performance.

The aerosol flow rate is normally 95 l/min with a minimum flowrate of 30 l/min. Testing can be performed at higher flow rates.



The largest specimen size that can be accommodated is about 180x180x80mm, but this is dependent upon the shape of the sample.

Optional computer software is available to guide certain check and testing operations.

Services required

Bench space 145 x 65 cm.
Approximate size & weight: 139 x 75 x 81 cm & 145 kg.
110/230 volts AC, 50/60Hz, mains electricity (specify requirements with order).
Compressed air conforming to EN 12021:1998, or equivalent, at a pressure of 6 bar and flowrate of at least 1000l/min. Connection is by 8mm push-fitting.
An exhaust system to safely direct atomised Paraffin Oil outside of the building. Atomised Paraffin Oil is vented and is harmful if inhaled. The exhaust system must not introduce variable back-pressure on the test equipment.
General purpose grade paraffin oil as specified by the standard.
A high efficiency filter that can be connected to a EN 148-1 thread, to be used for the concentration check.
A precision balance capable of reading to 1mg.
A timer if using the rig without the software.
The optional software requires a Windows 10 operating system & Microsoft Office 2016 or later.
The rig is designed to operate in the conditions 16 - 32ºC.
Storage conditions should be restricted to 5 to 35°C and <85%RH.

Consumables

Paraffin oil as specified in the standard (not supplied).

Please contact us for a quotation 1PO2210