

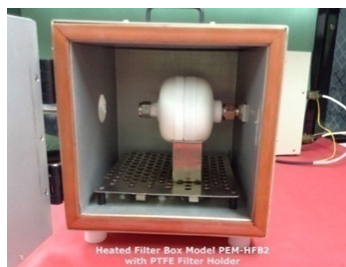
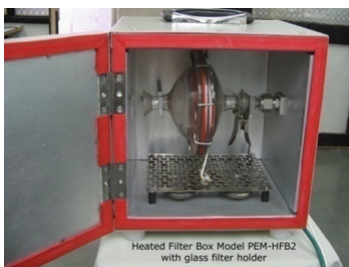


Heated Filter Box

In Method 5 and other methods for out-of-stack measurement of stack emissions, when sampling for particulate matter, it is mandatory for the sample to be drawn iso-kinetically. The sample is drawn through a probe and is collected on a glass fiber filter. In order to prevent loss of particulates to water that may form due to condensation of water vapour present in the sampled stack gas, the probe and the filter are required to be maintained typically at a temperature of $120 \pm 14 \text{ }^\circ\text{C}$ ($248 \pm 25 \text{ }^\circ\text{F}$).

This necessitates the filter holders also to be maintained at the above-mentioned temperatures in addition to heating the sampling probes.

Polltech's heated filter box Model PEM-HFB2 meets these requirements adequately. It comprises a double walled thermally insulated, electrically heated compartment. It can accept a glass or PTFE filter holders of various sizes. Uniform heating is provided by a large area sealed tubular heater element. Heated probes are held in place by a strong SS probe clamp. An independent electronic module comprising two digital electronic temperature controllers' control and display the temperatures in real time.



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Detailed Technical Specifications:

Construction Design	Double walled with ceramic wool insulation
Construction Material	Powder Coated Aluminum, Anodized Aluminum, SS
Filter paper size	70, 90 mm dia. or custom specified
Filter Holder	Glass or PTFE
Probe Clamp Holder	SS for 38 mm dia. Probe
Removable Probe Liner	Not applicable
Standard Length (Meters)	Not applicable
Heating Method	Electrical Resistance Heater
Temperature Range	50 to 2000 °C
Temperature Sensor	Thermocouple : Type K
Temperature Controller	2 Numbers - Electronic Closed Loop Feedback Type with digital display for set and actual temperature mounted in Electronic Unit
Measurement / Control Accuracy	Better than 50 °C
Power & Temperature Sensor Connectors	Total 4 Nos. Mil grade threaded type
Connections-Inlet	5/8" Swagelok
Connections-Outlet	Push-fit Union for 12mm PU tube
Dimensions	26 x 26 x 37 cm
Weight	7 kg
Electronic Unit Dimensions	11 X 13 X 27 cm
Electronic Unit Weight	2 kg

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