

THERMOELECTRICALLY COOLED GASEOUS SAMPLING ATTACHMENT ECOTECH MODEL AAS 109TE

The AAS 109TE Gaseous Sampling Attachment suitable for operating with Respirable Dust Samplers.

The AAS 109TE has been designed for sampling of various gaseous pollutants present in ambient air. In attachment unfiltered air is sucked and bubbled through specific reagents kept in impingers where gaseous pollutants (SO₂, NO₂, NH₃, & O₃), get absorbed in chemicals. Later collected chemical samples one can analyze as per standard wet chemistry method prescribed by BIS.

Peltiers are used in AAS 109TE to keep the box cool upto 25-30°C below ambient temperature. This means that even in peak summer when outdoor temperature goes above 40°C Impingers placed in the AAS 109TE remain at 10-15°C.

A digital temperature controller cum indicator constantly monitors and display the temperature of impinger sampling reagents. In AAS 109TE focused cooling is taking place as per design of cooling plate around impingers. An aluminum block is an integral part of cooling system where impinger are embedded. This block is getting cooled with the help of Peltiers once temp in desired range is achieved it is maintained using temperature controller.

Flow meter and manifold assembly fitted in the sampler is remain at ambient temperature thus there is no need to incorporate temperature correction.



SPECIFICATIONS

- Thermoelectric Cooling system to keep impingers cool 10-15°C for effective absorption.
- Improved valve design to maintains constant flow rate.
- 4Nos. of 35ml Borosilicate glass midjet Impingers placed in a Ice Tray insulated box with Lid.
- Digital temperature controller with display of temperature continuously
- Suitable for sampling of 4 gaseous pollutants simultaneously
- Impingers meet BIS design
- Flow rate 0 to 3LPM, (Least count 0.1 lpm) calibration certificate with NABL logo is provided from accredited lab.
- Control Valve: Flow controller needle valve for fine flow control provided for each impinger independently values are fitted manifold

For pricing information and queries contact:

ECOTECH INSTRUMENTS

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