

BENZENE SAMPLER ECOTECH MODEL AAS 172

Addition of Benzene in Petrol in place of Tetra Ethyl Lead is resulting emission of Benzene and its compounds in vehicular exhaust. As a results Benzene concentrations in urban atmosphere having significant traffic, has become a matter of concern.

Benzene concentrations near industries handling organic compounds such as refineries pharmaceutical and chemical units are also showing rising trends. Dry cleaning, gasoline handling, fuel burning and waste incineration are some known major sources of emission existing in urban environment affects ambient levels of these compounds

Organic compounds including Benzene being pre-cursors for Ozone formation and also play a key role, in formation of secondary pollutants.

Benzene is toxic & carcinogenic found causing serious health impacts hence it has been included as parameter for regular monitoring in new air quality standard notified by MOEF in November 2009.

As such Air Pollution Monitoring networks in many cities and close to relevant industrial activities are now putting intensive efforts for monitoring of Benzene. Bureau of Indian Standards (BIS) has also published Air Quality Standard method for measurement of Organic compounds in ambient air(BIS 5182(Part 11)).

To meet Benzene monitoring requirements as mentioned in the standard, Ecotech has developed a Benzene sampler model AAS172 to collect samples of Benzene present in ambient air.

Benzene is adsorbed in an activated charcoal cartridge. The contents of the tube are removed from the glass tube after sampling for desorption. The tubes can be re-packed with fresh activated charcoal for re-use. The adsorbed benzene is thermally or chemically desorbed, can be analyzed using Gas Chromatograph to found out the its concentration in ambient air.

The AAS172 uses a Flow-meter to accurately measure low flow rates in the range of 0 to 200 ml/min. Low flow rate allows the user to collect a representative composite sample over several hours without fear of sample loss due to saturation or breakthrough. The Ecotech AAS172 has a power operated light weight diaphragm pump suitable for long sampling durations. A Time Totalizer fitted in the sampler give actual time of sampling.

Technical Specifications:

Flow Rate Range	0 to 200 ml/min adjustable using precision needle valve for flow control.
Charcoal Tube	Sampler is supplied with three reusable Glass Tubes packed with Activated Charcoal.
Pump	Low noise diaphragm Pump which operates on nominal power 220V
Time Totalizer	0.00- 9999.00 HRS



Features

- Power operated portable instrument.
- For accurate flow setting rotameter with flow control valve has been provided.
- Built-in TimeTotalizer directly indicates the on time of the sampler
- Same hardware can be used for monitoring a wide variety of organic compounds.
- Diaphragm pump has low noise and requires less maintenance.
- A Mercury U Tube manometer has been provided for monitoring pressure drop across the tube. while sampling.

For pricing informations and queries contact:

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