

HD-66A

Mobile "K-Flow"
Constant Flow Air Sampler

Features:

- Constant airflow maintained with a ΔP across the filter of up to 27" of mercury (flow rate dependent)
- Telescoping sampling gooseneck permits easy adjustment to breathing zone levels
- Elapsed time meter and constant air flow rate permits calculation of accurate sample volume
- Unit mounted on wheels for easy movement
- Mounted air flow indicator
- All units individually calibrated and traceable to NIST

The Model HD-66A is a mobile "K-Flow" constant flow air sampler designed for use in nuclear power plants, research laboratories, production areas, and throughout industrial facilities where the collection of precise air samples is required on a continuous or semi-continuous basis. Its heavy duty vacuum pump and constant air flow regulator combination permits the collection of an air particulate sample at a constant flow rate until the ΔP across the filter paper exceeds the capability of the pump at that flow rate. (See curve.)

The controlled flow rate is observed on the handle-mounted rotometer and is adjustable from 1.0 to 7.0 CFM. The HD-66A can be used with all 25mm, 37mm, 47mm and 2 inch diameter filters and charcoal cartridges used for the collection of airborne contaminants. An internal air filtering system has been installed between the regulator valve and the pump to prevent particulates from reaching the self-adjusting carbon vanes and causing excess wear. A re-settable elapsed time meter is mounted on the instrument panel. By setting this timer to zero at the start of each sample period, an accurate sample volume may be readily calculated.



Specifications:

- Air Flow Rate: Adjustable from 1.0 to 7.0 CFM (25 to 200 LPM).
- Air Flow Indication: Venturi mounted rotometer.
- Air Flow Regulation: +5% of set air flow rate up to maximum capability of pump.
- Air Mover: Self-adjusting carbon vane type. Pump is designed for continuous operation at 27" Hg vacuum.
- Re-settable Elapsed Time Meter: 99999 Hours and 59 minutes, pushbutton re-settable.
- Vacuum Gauges: 0 to 30" Hg (vacuum) for reading ΔP . 0 to 30" Hg (vacuum) for reading pump head.
- Wheels: Steel axle with 8" rubber tires.
- Motor: 3/4 HP; Thermal Overload Protection. (1/2 HP for 220V, 50Hz Operation).
- Input Connection: 3/8" Female Quick Disconnect Fitting.
- Power Connection: 6 Foot, three wire grounded cable.
- Power Requirements: 115VAC, 60Hz, 15 Amps, or 230VAC, 50Hz, 8Amps.
- Overall Dimensions: 18" Long x 12" Wide x 57" High (46 cm x 30 cm x 1.45 m).
- Weight: 80 pounds (36 kg).

Sample Heads Available

Model No.	Description
2500-04	2" diameter filter, open face
2500-42	47mm diameter filter, open face
2500-21	2" diameter filter/RAD \bar{C} O cartridge, open face
2500-46	47mm diameter filter/RAD \bar{C} O cartridge, open face
2500-45	2" diameter filter/RAD \bar{C} O cartridge, in-line
2500-44	47mm diameter filter/RAD \bar{C} O cartridge, in-line

