COMERCIAL ARALCO

TSP High Volume Air Samplers

The high volume air sampler is U.S. EPA's Federal Reference Method for sampling total suspended particulates (TSP) in ambient air.

All TSP hi-vols feature accurate collection of total suspended particulates according to U.S. EPA specifications. Hi-vols have been used extensively in Federal, state and industrial monitoring networks for the measurement of ambient air quality standards for TSP and are used widely for occupational health monitoring and particulate research studies.

Principle of Operation

The high volume air sampler collects suspended particulates on large 8 x 10-inch (20.3 x 25.4cm) filter media. The name high volume is appropriate because the sampling flow rate has a high level of 20 to 60 standard cubic feet per minute (SCFM), or 0.57 to 1.71 standard cubic meters per minute (SCMM). Because of the high flow rate, large quantities of particles ranging from 0.1 to 1 gram are collected over a typical 24-hour sampling period. This facilitates gravimetric and chemical analysis and is the advantage hi vol samplers have over other air sampling methods.

Specifications

Motor	0.6 HP
Amperage	7.0
Wattage	840
Flow Set Point	43 ACFM
Accuracy	<1% deviation over 24 hour sampling period
Power Source	110 VAC, 1 phase, 60Hz (other electrical options available upon request)
Net Wieght	32 Kg

Shipping Sizes and Weight

Shelter	117cm x 51cm x 58cm, 34Kg
Lid	51cm x 38cm x 38cm, 4Kg
Motor & Filter Holder	71cm x 53cm x 48cm, 12Kg

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