



APM 430



NEED

Particulate matter has been treated as a critical pollutant ever since concern for air pollution was felt by society. Initially, distinction was made between settle-able dust, measured by dust fall and somewhat finer particles that would remain suspended in air, leading to the development of high volume samplers for monitoring the suspended particulate matter .

APPLICATION

High Volume Sampler, APM 430, is a basic instrument used primarily for measuring concentration of suspended particulate matter in atmospheric air. By definition, suspended particulates are too small in size to have an appreciable falling velocity and are likely to remain in the atmosphere for significant periods of time. These particulates usually range from 1 micron to approximately 100 microns in size.

WORKING PRINCIPAL

In APM 430, air-borne particulates are measured by passing air at a high flow-rate of 1.1 to 1.7 cubic meters per minute through a high efficiency filter paper which retains the particles. The instrument measures the volume of air sampled, while the amount of particulates collected is determined by measuring the change in weight of the filter paper as a consequence of the sampling. The passage for air reaching the filter is designed to prevent heavier settleable dust particles from reaching the filter. Hence High Volume Samplers measure concentration of Suspended Particulate Matter (SPM) in atmospheric air.

APM 430 comes with a brushless motor which has replaced the conventional high speed blower where carbon brushes are required to be replaced at regular intervals. Therefore there is no need to keep track of carbon brushes. Noise levels are significantly low.



APM 430



FEATURES

- No need to keep track of carbon brushes thus eliminating unnecessary breakdowns & minimize running cost.
- Significantly low noise levels.
- It is lighter, more compact, can be carried in a car trunk and is ideal for field use
- Less variation in flow.
- Silicone tubing in place of PVC tubing.
- Lighting facility to facilitate monitoring in the absence of ambient light..
- Unique flow measurement system using an orifice plate directly calibrated in cubic meter / minute
- Anodized aluminium body & frame work to support various parts of
- Sampler to withstand weathering effects.
- Separation of gable roof from main housing, making the system more rugged & compact for easy transportation. 24 hr programmable timer

SPECIFICATIONS

Flow rate	1.1to 1.7 Cu m/min
Particle Size	Down to 0.5 micron depending upon Filter used. Recommended filter : GF/A (8" x 10") for common use and EPM 2000 for Special Research Use.
Sampling time Record	0 to 99999.99 hrs. time totalizer records the running time in hours.
Automatic Sampling	24 hour programmable timer, required intervals can be conveniently programmed.
Power requirement	220 Volts, 2 Amps, Single phase AC.
Size	With gable roof 440mm (L) x 440mm (W) x 820mm (H)
Weight	25 Kg

To facilitate sampling of gaseous pollutants, provision has been made to attach the APM 411/ 411TE gaseous sampling attachment with the main sampler.

1 Year Warranty

*Specifications are subject to change without any prior notification



For More Information Contact

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