



APM 550M



NEED

Studies sponsored by USEPA have concluded that Fine Particles, (PM_{2.5}) which penetrates deep into the lungs, are more likely to contribute to adverse health effects and also adversely affects the visibility. PM_{2.5} has been included in the National Air Quality standard in November 2009. Instrument is very suitable for regular monitoring of PM_{2.5} particulates in ambient air.

APPLICATION

APM550M system has been designed for regular monitoring PM_{2.5} in ambient air. Also, since it allows the removal of PM_{2.5} from the sample stream so the same system may be optionally used as a PM₁₀ Sampler.

WORKING PRINCIPAL

The APM 550M system is a manual method for sampling fine particles (PM_{2.5} fraction) and is based on impactor designs standardized by USEPA for ambient air quality monitoring. Ambient air enters the APM 550M system through an omnidirectional inlet designed to provide a clean aerodynamic cut-point for particles greater than 10 microns. Particles in the air stream finer than 10 microns proceed to a second impactor that has an aerodynamic cut point at 2.5 microns. The air sample and fine particulates exiting from the PM_{2.5} impactor are passed through a 47mm diameter Teflon filter membrane that retains the FPM. The sampling rate of the system is held constant at 1m³/hr by a suitable critical orifice. By locating all power dissipating components in a separate cabinet the APM 550M ensures that the temperature

of the PM_{2.5} filter remains close to ambient temperature and there is no chance of losing volatile fractions of the PM_{2.5}. The system uses a continuous rated, oil free pump for providing suction pressure. The standard system is supplied with a Dry Gas Meter to provide a direct measure of the total air volume sampled.



APM 550M



Features

- PM10 and PM2.5 Impactors as per designs standardized by US EPA.
- Two Part Cabinet Ensures That Temperature of PM2.5 Filter Remains Close To Ambient Temperature.
- The APM 550M Uses a Brush-Less Pump With a Low Noise.
- Same Instrument Can Be Used For PM2.5 Sampling.
- Lower Sampling Rate of 16.7 LPM Reduces Filter Chocking Even in Areas Having High FPM Levels.
- Critical Orifice Maintains Constant Sampling Rate of 1m³/Hour.
- Compact and Portable For Convenient Field Operation.

SPECIFICATIONS

Paricle Size	Omni-Directional Air Inlet With PM10 Separation Through an impactor Followed By PM2.5 Sepration Through a Wins Impactor
Sampling Rate	Constant Sampling Rate of 1 m ³ /hr Unaffected by Voltage Fluctuation and Filter Choking Maintained By Critical Orifice System.
Filter Media	Filter Holder Designed to Accept any Standard 47mm Diameter Filter Media.
Sample Volume	Dry Gas Meter Records The Total Air Volume Sampled.
Power Requirements	Single Phase AC 220 Volts, 50 Hertz Supply. Sampler Unaffected By +/-10% Fluctuation in Supply Voltage.

1
Year
Warranty

*Specifications are subject to change without any prior notification

To Facilitate sampling of gaseous pollutants provision has been made to attach the apm 411/411te gaseous sampling attachment with the main sampler.



For More Information Contact

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