

# PM 10/PM 2.5 SAMPLE APM 154 MFC



LATA ENVIROTECH SERVICES

## Overview

Ambient air enters the APM 154 MFC Sampler through an omni directional inlet designed to provide a clear aerodynamic cut-point for particles larger than 10 microns. The air stream then passes through a WINS Impactor that retains the fraction between PM 10 and PM 2.5. The PM 10 and PM 2.5 impactors used in the APM 154 MFC are based on designs standardized by US-EPA and as such the system complies with international norms for PM 2.5 Samplers.

## Special Features:

- PM 10 and PM 2.5 Impactors of sampler based on designs standardized by US EPA.
- Flow Control based on Mass Flow measurements to remove errors due to pressure, temperature changes (of both ambient air and filter).
- Auto shut off if flow rate drops significantly below 1 m<sup>3</sup>/hr.
- Microcontroller based data logger records Air Temp., Filter Temp and flow rate.
- Windows based software for downloading data.
- Pump Assembly in separate cabinet to prevent loss of volatile fraction and improve portability.
- Special imported oil free brushless vacuum pump that is practically noiseless

## Specification:

Size Selective inlets:	Omni directional air inlet with PM 10 separation through an impactor followed by PM 2.5 separation through a WINS Impactor
Flow Rate:	1 m <sup>3</sup> /hr controlled by mass flow controller
Vacuum Pump:	Oil Free, nonpulsating pump driven by induction motor for stable flow rate
Power requirement	Nominal 220 V, Single Phase, 50Hz AC mains supply. For proper operation and safety a good earth connection is mandatory
Filter Media	Filter holder designed to accept any standard 47 mm diameter filter media
Sample Volume	Data Logger
Elapsed time indicator	Real Time clock records the operating time for each sample
Flow recorder	Digital Microcontroller based system records flow rate, volume of air sampled, air temperature and filter temperature in nonvolatile flash memory
Warranty	One year



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(AN ISO 9001: 2008 CERTIFIED COMPANY)

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