



## APM 460



## APPLICATION

The APM 460 is used for routine monitoring of PM<sub>10</sub> in the ambient air. By using the APM 460, measurement of Respirable Particulate Matter can be done accurately and TSPM can also be assessed by collection of dust retained in the cyclone cup. The APM 460 gained acceptability from academic institutes consultants and a wide spectrum of industries besides country-wide use by the Pollution Control Boards and the National Ambient Air Monitoring Program.

## NEED

PM<sub>10</sub> can penetrate respiratory tract through mouth and nose, and can easily enter into the lungs and can lead to illness such as extreme asthma attacks, bronchitis, and lung diseases. Also, it may impact vegetation and be a general nuisance. India adopted monitoring of PM<sub>10</sub> as part of the Ambient Air Quality network in 1994. apm 460 uses a cyclone separator developed by CSIR-NEERI for segregation of PM<sub>10</sub> Particles from total

## WORKING PRINCIPAL

The APM 460 sampler uses an improved cyclone with sharper cutoff (D50 at 10 microns) to separate the coarser particulates from the air stream before filtering it on the glass microfibre filter (CSIR NEERI knowhow).

APM 460 comes with a brushless, continuous rated induction motor to significantly reduce equipment downtime, maintenance efforts and inconvenience to community. The brushless blower of the APM 460 also substantially reduces the audible noise. A thermal cut-out has been incorporated to protect the Blower motor from burnout due to overheating. With the improved motor design the instrument no longer needs a voltage stabilizer resulting in cost saving and lowering the weight of the field instrument. The cabinet design has been improved to prevent entry of rainwater and dust into the machine.

## FEATURES

- Brushless blower reduces equipment downtime and maintenance efforts.
- Significantly reduced Noise
- Electromagnetic Interference (EMI) to TVs totally eliminated.
- Over temperature cut-off protects Blower
- Smaller cabinet size makes it easier to carry the instrument from one site to another
- Lockable Top cover and Gaseous attachment.
- Improved cabinet is more weather resistant and durable with SS hardware



## APM 460



## SPECIFICATIONS

Flow Rate	0.9 – 1.4 m <sup>3</sup> /min free flow
Particle Size	Particles of 10 microns & below collected on Filter Paper holder. SPM bigger than 10 microns collected in a separate sampling bottle under the cyclone
Sampling Time	28 hours (maximum)
Sampling Time Record	0 to 9999.99 hrs recorded on a Time Totalizer
Automatic Sampling	24 hrs programmable timer to automatically start and shut off the system at pre set time intervals.
Power Requirement	Nominal 220 V, Single Phase, 50Hz AC mains supply
Size & Weight	430 x 320 x 930 mm, 45Kg

**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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