

○ Specification of PM 2.5 Dust Sampler

Technical Specification	
Features	Details
Size Selective inlets	Omni-directional air inlet with PM 10 separation through an impactor followed by PM 2.5 separation through a WINS Impactor
Vacuum Pump	Imported oil-free brushless vacuum pump, Oil Free, non-pulsating pump driven by induction motor for stable flow rate
Flow Rate	1 m ³ /hr controlled by mass flow controller
Filter Media	Filter holder designed to accept any standard 47 mm diameter filter media
Sample Volume	Dry Gas meter records the total air volume sampled
Elapsed time indicator	Real Time clock records the operating time for each sample
Flow recorder	Digital Micro-controller based system records flow rate, volume of air sampled, air temperature and filter temperature in non-volatile flash memory
Auto shut off	Auto shut off if flow rate drops significantly below 1 m ³ /hr
Power requirement	Nominal 220 V, Single Phase, 50 Hz AC mains supply
Calibration unit	Leak Check & Flow rate measurement adapter
PC Connectivity	Windows based software for downloading data
Accessories	1. PTFE Filter Pore size 2 µm, dia 46.2 mm with PP ring supported. Suitable for monitoring of PM2.5 dust 2. 37 mm dia GF/A Filter paper 3. Silicone oil for WINS Impactor