

RESPIRABLE DUST SAMPLER

MODEL SSES-APD-001

Respirable Dust Sampler (SSES-APD-001) was designed and produced by Soniya Scientific Equipment Solutions Pvt. based on the concept and requirement given in the BIS 5182 (Part-23) 2006.

Technical Design:

SSES-APD-001 suck ambient air using low maintenance brushless and noiseless blower through corrosion free aluminum modular pipe and pass thorough a sharp cutoff cyclone which divides the particulate matters in two fractions: one below 10 microns ($<10\mu$), and another above 10 microns ($>10\mu$).



The Respirable dust (below 10 microns) directly get deposited on the glass micro fibre filter paper and the coarser particle (above 10 microns) collected in the cyclone cup fitted under the cyclone. A time totalizer records the total running time of the blower. A programmable digital timer makes the instrument to stop and start as per requirements set in the timer. The manometric systems indicates the rate of flow in cubic meter per minute which can be read directly on calibrated scale.

SSES-APD-001 can be used in residential and sensitive areas without any disturbances because of low noise. Noiseless blower does not require regular maintenance.

This model having the provision for fitting of gaseous sampling attachment SSES-AGS-003 that can sample 4 gases viz SO₂, NO₂, O₃ and NH₃ simultaneously. Means, SSES-APD-001

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is fit for sampling of RSPM, NRSPM, TSP and 4 gaseous pollutant using SSES-AGS-003. Heavy metals can be analysed using PM10 collected through SSES-APD-001.

SPECIFICATIONS:

Particle Fractionate	:	A cyclone is used for fractionating the dust into two fractions. D-50 for the cyclone is at 10 microns. PM 10 dust is accumulated on the filter paper (8" x 10" size) while coarse dust is collected in a cup placed under the cyclone. Cyclone has made up of non-corrosive metal.
Flow Rate	:	0.6-1.4 m ³ /min (free flow condition without filter)
Filter Holder	:	Aluminium casting with fine finished rubber gasket
Sampling Time	:	Can be operated up to 32 Hrs continuously.
Sampling Time Record	:	0 to 9999.99 hrs. (Time Totalizer) accurate up to 0.6 minute. Record actual on operation time of the sampler.
Automatic Sampling Time Control	:	24 hrs programmable timer to automatically shut off the system after pre-control set time interval with accuracy of 1 minute.
Power Requirement	:	Nominal, 220V ± 20V Single phase, 50Hz AC mains supply. Power consumption is about 600 watts.
Equipment Body	:	The body of RDS is robust enough to withstand impacts and vibration in transportation it is made of heavy Aluminium sheet.
Size & Weight (approx.)	:	420 x 340 x 790 mm, 45 Kg

Warranty	Our All the Products cover one year warranty	
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