



VSS1



APPLICATION

This Stack Sampler VSS1 is a Grab Sampler which can monitor Particulate Matter (PM) and any water soluble gaseous pollutants like SO_2 , NO_2 , HF, Cl_2 , H_2S , NH_3 etc., in industrial emissions from stationary source/chimney and vent. The Stack Sampler VSS1 has been designed to be a simple, compact and handy device, which can be used more often with ease and convenience, rather than a bulky and cumbersome system, since only repeat and frequent monitoring can give a true insight into the emission characteristics.

OPERATING PRINCIPLE

The Particulate Matter is collected over a filtration thimble. It entraps and absorbs various gaseous pollutants in suitable reagents, which are analyzed subsequently by simple Wet Chemistry methods to determine the concentration of specific pollutants.

FEATURES

- Digital Pressure Cell in place of cumbersome manometer.
- Measures total quantity/ volume of emissions
- Determines velocity of gases
- Reduction in size and weight of panel
- Extendable arm for pitot and probe pipe
- Probe set accommodated in a carrying case.
- Provision of measuring temperature and suction pressure at metering point individually for PM and GAS stream
- Minimum number of joints to minimize leakages
- Tripod stands for better accessibility.
- Compact Hardware & Portable light weight vacuum pump.
- Sampling train with simplified glass joints

1 Year Warranty



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SPECIFICATIONS

Stack Temperature Range	Ambient to 600 degree celsius read on a Digital Pyrometer
Stack Velocity Range	3to60 m/sec
Thermocouple	TIC sensor in SS 304 casing, length of insertion: 0.6 m with 2m long cable
Manometer	Digital with 0-1300 mm of H ₂ O range
Pitot Tube	Calibrated S-type fabricated -SS 304, 0.6 m extendable to 1.2m
Particulate Sampling	2-30 lpm collection on thimble type filter up to 0.3 micron rating
Gaseous Sampling	0.2-3 lpm collection in a set of Borosilicate glass impingers
Rotameter	Plastic body with 2% FSD accuracy, 0-30 lpm PM and 0- 3 lpm for GAS
Sampling Probe	Made from SS 304 tube, 0.6 m length extendable to 1.2m
Filter Holder	Fabricated from SS 304 tube suitable to hold either cellulose filtration thimble (Size 28mm 10 X 100 mm long) or glass micro fibre thimble (size19mm ID X 90mm long)
Nozzles	A set of 3 stainless steel nozzles
Digital Clock	0-60 minutes, 1second readout with start and stop switches
Sampling Train	1 No. of 240 ml cap. & 2 No. of 120 ml cap. borosilicate glass impingers accommodated in ice tray, placed on the rear side of instrument panel with a provision to keep ice
Vacuum Pump	Monoblock Rotary Vane type, oil lubricated, single phase, motor (230V) with more than 50 lpm free flow capacity

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*Specifications are subject to change without any prior notification



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