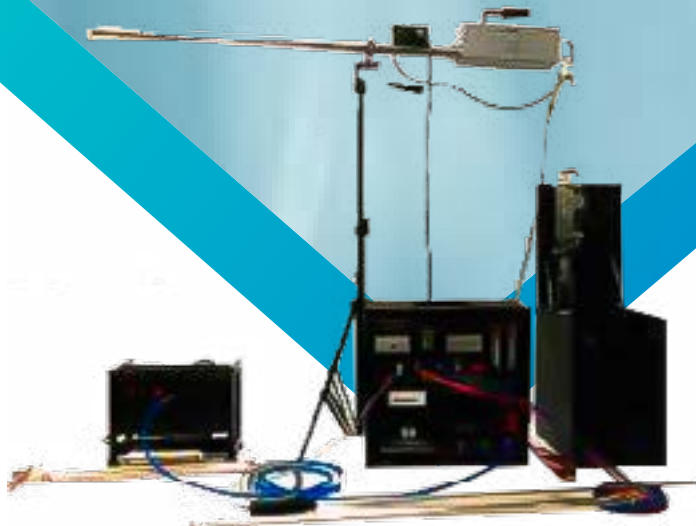




VSS3



1 Year Warranty

APPLICATION

VSS3 is widely in use for monitoring of Stack and vent emissions, which is now becoming a routine requirement not only for large but even for the medium and small industrial units. There has also been a growing realisation that gaseous pollutants, chemical fumes and fine mists that are hazardous as particulate ashes and dusts.

OPERATING PRINCIPLE

Flue gases (with Dioxins) enter the system through the nozzle at the tip of the sampling probe and passes through the probe liner having the high temperature. It then passes through the filter thimble, where the particulate matter is removed and reach the condenser assembly because the XAD-2[®] reagent absorbs Dioxins at less than or equal to 20 % moisture content at low temperature. The gas is directly absorbed in the absorbing solution, eg. Ethyl Alcohol. Then two impingers are also attached with this assembly one of distilled water followed by Silica gel filled impinger.

FEATURES

- Measures total quantity / volume of the emissions
- Heating probe & box assembly with auto temperature controller
- Rugged & convenient for sampling for long duration with oil free Vacuum Pump assembly
- Glass lining inside the nozzle, thimble holder & probe pipe
- Tripod stand for better accessibility
- Probe set accommodated in a carrying case
- Convenient to use



VSS3

VSS3

SPECIFICATIONS

Stack Temperature Range	Ambient to 600 degree Celsius read on a Digital Pyrometer.
Stack Velocity Range	3 to 60 m/sec
Thermocouple	T/C sensor in SS 304 casing, length of insertion: 1m with 2m long cable
Manometer	Digital with 0-1060 mm of H ₂ O range
Pitot Tube	Calibrated S-type fabricated -SS 304, 1m long
Particulate Sampling	0 –30 lpm collection on thimble type filter up to 0.3 micron rating. 0 – 3 lpm collection in a set of Borosilicate glass impingers.
Rotameter	Acrylic body with 2% FSD accuracy, 0 – 30 lpm for PM and 0-3 lpm for gas.
Sampling Probe	1m long SS tube with inside lining of Glass & provision for controlled at 120 degree Celsius heating.
Filter Holder	Glass filter holder with heating provision suitable to hold either cellulose filtration thimble (size 28mm ID X 100mm long) or glass fibre thimble (size 19mm ID X 90mm long).
Nozzles	A set of 5 glass nozzles
Digital Clock	0-60 minutes, 1 second readout with start and stop switches
Temp. Controller	Digital type temperature controller
Dry Gas Meter	Range 0 to 60 LPM connected to SPM line
Sampling Train	4 Nos. of 275 ml cap glass impinger, 1 No. condenser glass coil, 1 No. moisture bottle 750 ml & 1 No. cartridge tube accommodated in separate ice tray with instrument panel with a provision to cool down flue gas temperature
Vacuum Pump	Monoblock Rotary Vane type, oil free, 0.5 HP single phase motor (230V) with more than 50 lpm free flow capacity.
Size and Weight (approx) :	Length (mm) Width (mm) Height (mm) Weight (Net) Kg
VSS3 Instrument Panel	400 250 400 10
VSS3 Cold Box	250 410 400 10
VSS3 Probe Box	1140 300 150 20
Vacuum Pump Assembly	340 200 280 30
Glass Assembly Box	1170 260 100 10

1 Year Warranty

*Specifications are subject to change without any prior notification

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