

## APM 620 APPLICATION

APM 620 is a cost effective routine stack sampling system designed to monitor concentrations of pollutants in industrial emissions. Only repeat and frequent monitoring can give a true insight into the emission characteristics and therefore the Pollution Control Boards, all over the country are now laying emphasis on emission data collected more frequently rather than one or two very precise grab values, It is thus more important to have a simpler and handy device, which can be used often with ease and convenience, rather than a bulky and cumbersome system.

## OPERATING PRINCIPLE

The operating principle is simple, it entraps and absorbs various gaseous pollutants like SO<sub>2</sub>, NO<sub>2</sub>, HF, Cl<sub>2</sub>, H<sub>2</sub>S, NH<sub>3</sub>, etc., in suitable reagents, which are analysed subsequently by simple Wet Chemistry methods to determine the concentrations of specific pollutants. The particulate matter is collected as usual over a filtration thimble.

## APM 602

APM 602 is designed to determine the temperature, velocity and total quantity / volume of emissions in stationary sources.

## FEATURES

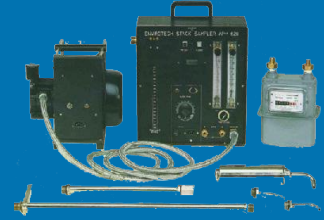
- Simplified design by separating temperature and volumetric flow measuring facilities using separate velocity Monitor APM 602.
- Simultaneous sampling of particulate and gaseous pollutants.
- Provision to record temperature and pressure at inlet of the rotameter to normalise volume of sampled gas,
- Minimum number of joints.
- Dry Gas Meter to provide greater accuracy in gaseous samplings.
- Provision of panel mounting needed for heated probe system.
- Rear of instrument panel is used for housing impingers.
- Lighter monoblock pump.

## NEED OF MONITORING

In many industrial units, frequent and reliable monitoring of hazardous chemicals present in the emissions as gases/fumes is very critical. HANDY STACK SAMPLER APM 620, has been developed to provide a simple, sturdy, reliable and cheap sampler for such situations. It is manufactured in accordance with the specifications of Central Pollution Control Board and other international regulatory agencies.



# APM 620



## SPECIFICATIONS APM 620

Particulate Sampling	2-30 LPM collection on thimble type of filter upto 0.3 micron rating
Gaseous Sampling	0.2-3 LPM collection in a set of Borosilicate glass impingers
Rotameter	Plastic body rotameter with 2% FSD accuracy, 0-30 LPM for particulates and 0-3 LPM for gases
Sampling Probe	Made from SS 304 tube, 1.0m and 0.3m in length (1.5m, 2m, 4m available at extra cost)
Filter Holder	Fabricated from SS 304 tube, 1.0m and 0.3m in length (1.5m, 2m, 4m available at extra cost)
Nozzles	A set of 3 stainless steel nozzles
Digital Clock	0-60 minutes, 1 second readout
Sampling Train	2 No. of 240 ml capacity and 3 No. of 120ml capacity borosilicate glass impingers with Ball socket joints accommodated in ice tray, placed in the rear of instrument panel with a provision to keep ice.
Vacuum Pump	Monoblock Rotary Vane type, oil lubricated, 0.5 HP single phase motor (230V) with more than 50 LPM free flow capacity
Dry Gas Meter	Diaphragm type, 1 ltr least count

Size and Weight (Approx)	Length (mm)	Width (mm)	Height (mm)	Weight(Kg)
APM 620 Instrument Panel	360	270	410	9
Vacuum Pump Assembly	330	300	280	19
Dry Gas Meter	190	120	240	2

## APM 602

Stack Temperature range	Ambient to 600 degree Celsius read on a digital pyrometer
Stack Velocity range	Thermocouple sensor in SS 304 casing length of insertion 1 m with 2m long cable (2 meter available at extra cost)
Pilot Tube	Modified S-Type pilot tube fabricated from SS 304, 1m in length and individually calibrated (other lengths are available at extra cost)

Size and Weight (Approx)	Length(mm)	Width(mm)	Height(mm)	Weight(Kg)
APM 602 Instrument Panel	280	150	480	4

## LIST OF COMPONENTS

<b>APM 620</b>	Probe pipe, filter holder, inter connection hose pipes, nozzles, instruments panel with fibre cover, consisting of stop watch rotameters, ice tray consisting of glass impingers, Vacuum pump assembly, Dry gas meter etc
<b>APM 602</b>	instruments panel consisting of pyrometer, inclined cum vertical manometer, pilot tube, thermocouple, inter connection hose pipe etc

**1**  
**Year**  
**Warranty**

\*Specifications are subject to change without any prior notification

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