



ICON INSTRUMENTS COMPANY

IIC-509



HIGH VOLUME SAMPLER

Application :

HIGH VOLUME AIR SAMPLER. Widely used outdoor air quality monitoring equipment designed for the evaluation of Total Suspended Particulate Matter (TSPM) and obnoxious gases/vapour such as SO₂, NO_x, Ozone, H₂S, NH₃, Chlorine, etc. in the ambient atmosphere. High Volume Samplers are rugged, inexpensive device with good filtering efficiency that can be operated for long period with minimum maintenance.

DUST SAMPLING	
Filteration Assembly	Stainless Steel (Grade SS-304) wire netted filter holder and neoprene rubber gasket.
Filter Paper Size	25x20 cm size with effective filtration area 23x18cm
Blower Rating	Heavy duty continuous operation type, blower.
Sampling Rate	0.6 to 1.4 m ³ air/min.
Particulate Sampling	Suspended particulate matter of size 100 micron to 0.1 micron can be collected, depending upon the type of filter media used.
Flow Control	By step less electronic controller with indicator.
Flow Measurement	By Calibrated orifice plate and glass tube manometer assembly.
Sampling Time Control	24- Hour programmable controller with Autoshtut off timer.
Sampling Duration Record	By Time Totaliser with capacity to register up to 9999.9 hours.
Power Requirement	220-230 V single phase; 50 Hz AC mains supply.
Built in Voltage Stabilizer	Input 140 to 275 V AC/Output 230-10 V AC.
Automatic Shut off	Below 170 and above 250 Volts

GAS SAMPLING KIT	
Sampling Rate	0.3 to 3.0 LPM Air
Flow Control.	By Needle Valve
Flow Measurement	By acrylic body Rotameter Calibrated in LPM (Liter in Minute)
Sampling Train	Four Sets fo 35ml capacity Impingers.
Impinger Tray	Insulated Tray to be used with ice as coolant.

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