

AIR QUALITY MONITORING SYSTEM

PS 080 PERSONAL AIR SAMPLER

ENDEE Personal Air Sampler with an appropriate sample head is designed to collect virtually any industrial contaminant including particulate samples like dust, fibres, fumes and mists as well as vapors and gases, where high flow rate is permitted.

Air containing contaminants is drawn through the sampling head at an optimum rate. The suction is provided by a pump driven by DC Motor with dry or Rechargeable batteries. Flow rate is variable by the user to suit the sampling techniques.



The pump unit has a wide flow range upto 0 - 3 (LPM) Litres Per Minute adjustable. The desired flow rate is pre-set and maintained constant within a tolerance of $\pm 5\%$. When pressure drop across the filter increases as contamination builds up, the control circuit automatically senses the rising current demand by the motor voltage to compensate to maintain preset constant flow rate. Unit is powered by dry cell or a rechargeable, which can be recharged in place via a socket or can be interchanged very rapidly to allow the instrument to continue sampling on consecutive shifts. A Low Battery Alarm is provided. Setting of Flow rate has been made simple for the user and is adjustable through membrane switch, over the entire range.

SPECIAL FEATURES

- Rotary pump with corrosion resistant vetted parts
- Automatic Constant flow control
- Multi flow sampling capability
- Pulsation free flow
- Built - in flow indicator optional
- Ultra quiet operation
- Electronic flow adjuster
- Low battery alarm

APPLICATIONS

A simple method of collecting vapors is to absorb them in Silica Gel. We offer user fillable Silica Gel holders with end plugs. Vapors may subsequently be stripped off for chemical analysis. Alternatively bubbler type liquid traps may be used to absorb gases or vapors by suitable liquids.

HEADS FOR RESPIRABLE DUST

Special heads for separating respiration of the dust from larger, non-respirable particulate are available.

SPECIFICATIONS

Type	: Portable
Parameters	: Air sample
Electronics / processor	: Micro-controller
Power supply	: Rechargeable battery with charger
Display	: LCD
Alarm	: LOW Flow and LOW battery alarm
Technology	: Pump
Range resolution	: Max flow upto 3.0 LPM
Operating temperature	: 0 - 55°C
Sampling	: Auto suction
Housing	: MS
Accessories	: Leather carry case, 50 Nos filter paper
Optional accessories	: Rota meter, sampling heads, filter, absorption tubes, gas collection bags

SAMPLING HEADS & FILTERS

The sample heads used with high flow personal sampling pump fall under :-

1. Filter heads and filter for retaining toxic or radio active dusts, fibres, fumes and mists
2. Heads containing gel or liquid for retaining toxic vapors and gases
3. Cyclone heads which separate dust into respirable and non-respirable fractions

FILTER HEADS & FILTERS

General and special purpose filters of various materials and dimensions along with suitable filter heads are available for collection, for example :-

1. Particulate contaminants
2. Asbestos fibres, radio active dusts, lead, total dust, man-made mineral fibres and welding fumes

*Note : Images shown are indicative only. Specifications and Features will vary with application. There may be changes overtime due to continuous development process.
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