

Seven-Day Recording Volumetric Spore Trap

For battery or mains operation



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and Exporters**

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A compact unit with built-in vacuum pump, designed to sample airborne particles, such as fungus spores and pollens, continuously for periods of up to seven days without attention.

Particles are impacted on adhesive-coated transparent plastic tape supported on a clockwork-driven drum. Performance of the standard model is similar to the trap described by Hirst in 1952 (*Ann. App. Biol.* 39, pp 257-265) but interchangeable orifices can be supplied to special order to improve the trapping efficiency for particles in the range 1 to 10 μ diameter.

Construction and Equipment Details

The trap is constructed from materials which are light in weight, making it readily portable for field use. All parts are treated to prevent corrosion against normal weather conditions and the unit is finished in Oyster Green hammer enamel.

Attention has been given to the changeover of drums, which is quick and simple in operation.

Double-sided adhesive tape is used to secure the Melinex tape around the drum.

The vacuum pump is available for use on most voltages and frequencies.

General Specification

Overall height: 94cms
Working area of trap with standard vane:
9.61 sq.ft through 21 in. radius
Throughput: 10 litres per min.
Drum speed: 1 revolution in 7 days at
2mm/hour
Standard orifice: 2mm x 14mm
Tape: Melinex clear tape 200 gauge.
Shipping weight: Nett - 16 kilos.
Gross - 34 kilos
Case size: 57 x 65 x 65 cms
(23" x 26" x 26")

Standard Equipment

The Spore Trap is supplied with one roll of 'Melinex' tape and one roll of double-sided tape, together with the laboratory stand and perspex cutting block as illustrated below



Laboratory stand for coating the Recording Drum



Perspex cutting block for sectioning the Melinex tape into hourly/daily samples

Optional Extras

Mowiol-3-83 available in 1/2 kilo packs.

Alternative orifice, size 14mm x 2mm reducing to 5mm

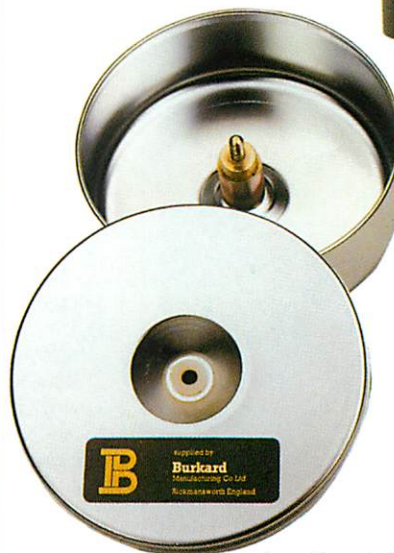
Additional drums.



Alternative lid assembly for 24 hour sampling directly onto glass slide



Flowmeter for measuring throughput at the sampling orifice



Anodised aluminium carrying case with lid