



IF IT'S WORTH BUILDING, IT'S WORTH TESTING

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Soil Analysis Test Kit for Major Nutrients

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Complete Soil Analysis Test Kit. Photometer Ph and Conductivity Meters and Reagents for 50 Tests

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Soil moisture meter.

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Colony Counter 220-240V 50Hz 1Ph.

78-1250/01

225 Litre Drying Oven



Constant Head Permeability Cell 75mm Diameter Specimen.

Code: [25-0580](#)

Product Group: [Constant Head Apparatus](#)

75 mm Diameter

Standards

BS 1377-5

Specification

Nominal Cell inside diameter	75 mm
Cell wall	Transparent plastic
Take-off points	3
End plates	Anodised aluminium
Weight kg	2.6



Compaction Permeameter.

Code: [25-0607](#)

Product Group: [Compaction Permeameter](#)

101.6 mm

Specification

Mould	Machined seamless steel tubing, plated
Capacity	101.6 x 116.4 mm (inside dia x h) 1/30 ft ³
Collar	50.8 mm high, machined
Top	Overflow valve assembly and water connection
Base	Cast aluminum, with inlet/outlet fitting
Porous stone	(4") 101.6 x 12.7 mm (diameter x thickness)
Weights	5.4 kg

Accessories



De-Airing Tank.

Code: [25-0611](#)



Soaking Tank.

Code: [25-0613](#)



Standpipe Panel.

Code: 25-0609



Combination Permeameter, 2.5" (63.4 mm)

Code: 25-0623

Product Group: Combination Permeameter Constant or Falling Head

- Plated steel chamber head assembly
- Corrosion-resistant cast aluminum base assembly
- Includes accessories for conducting both constant and falling head permeability studies

This combination permeameter has a transparent plastic chamber for soil specimens of either fine-grained or coarse-grained soils. Generally, soils containing 10 percent or more particles passing a 75 μ m sieve are tested using the falling head assembly. More granular soils, containing 90 percent or more particles retained on the 75 μ m sieve, are tested using the constant head assembly.

The cell is sealed at the top so that a vacuum may be used to saturate the specimen. Porous stones located at the top and bottom of the cell prevent sample flaking or washout. For constant head tests, a plastic funnel reservoir is mounted on an upright attached to the cell, providing a maximum head of 550 mm. Falling head tests are performed using the graduated pipette falling head reservoir, which gives a maximum head of 1000 mm and is graduated 0.2 ml.

Specification

Specimen size	63.5 x 140 mm (dia x l max)
Chamber	Transparent plastic, single section
Base	Cast aluminium
Top seal	Plated steel with gaskets
Porous Stones	62.7 x 12.7 mm (diameter x thickness)
Constant head	Plastic, funnel reservoir, 550 mm maximum head
Falling head	Graduated pipette, 100 ml x 0.2 ml, 1000 mm maximum head
Weight kg	5
Specimen Size	2-1/2" diam. x 5-1/2" l. max. (63.5 x 140 mm).
Capacity	Clear lucite; 1/4" (6.3 mm) wall; single section.
Base	Cast aluminum.
Top Seal	Plated steel with gaskets.
Porous Stones	Mounts at top and bottom;

Product Sheet

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Constant Head

2.47" diam. x 1/2" thick (62.7 x 12.7 mm); 105-120 permeability rating; 300 micron, average pore size.

Falling Head

Plastic; funnel reservoir; 55 cm maximum head.

Graduated pipette; 100 mm x 0.2 mm; 100 cm. maximum head.

Weight

Net 11 lbs. (5 kg).

Spares/Consumables



Porous Stone 2.47" x .50"

Code: [T-308](#)



Paqualab Incubator 50:- Dual Incubator Filtration Unit 50 Al Petri Dishes

Code: 420-035

Product Group: **Paqualab Portable Incubators &
Filtration Unit**

Contamination by sewage is the greatest danger associated with water for drinking.

This is because sewage may contain organisms that cause diseases such as typhoid, dysentery and hepatitis.

The bacteria which cause the disease are very small and cannot be seen without a microscope. The

Most common method of counting bacteria is to encourage them to grow to form a colony of bacteria large enough to be seen and counted. It would be very dangerous for the operator if the disease causing organisms were grown, therefore harmless indicator bacteria are used. Indicator organisms are much more common than disease causing organisms and so are easier to detect. The presence of coliforms, faecal coliforms and faecal streptococci are used to establish whether a water supply has been contaminated with sewage.

Paqualab Incubator System is a Portable Testing System for Drinking Water.

The Paqualab Incubator 50 includes two incubators the Standard and Universal, of which will perform 50 Tests - Faecal & Total Coliforms in one incubation period. Each Incubator has 2 pre-set temperatures normally 37°C and 44°C, a membrane filtration unit, microbiological accessories kit, connecting cables and operating manual. All components are in a convenient rigid carrying case which can also accommodate a number of electronic meters from the ELE Paqualab range. The system will operate on 12V or 24V DC, 110V or 20V AC or the internal 12V rechargeable battery supplied.

Spares/Consumables



Filtration Unit Al Construction Complete with Sampling Cup.

Code: 420-450



Soil Analysis Test Kit for Major Nutrients

Code: [513-016](#)

Product Group: [Soil test kits](#)

This soil fertility kit tests for:

- pH
- lime requirement
- nitrate nitrogen
- phosphate
- potassium

Further Information

Includes soil scoop, de-ion pack, pH block and N/Mg/P Soiltester block.



Complete Soil Analysis Test Kit. Photometer Ph and Conductivity Meters and Reagents for 50 Tests

Code: [513-024](#)

Product Group: [Soil test kits](#)

A complete soils analysis kit:

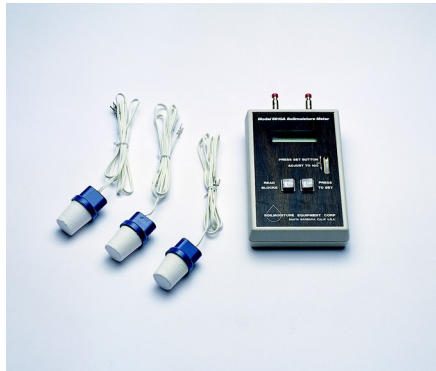
- pH
- lime requirement
- nitrate nitrogen
- phosphate
- potassium
- conductivity
- calcium
- magnesium
- aluminium
- ammonia
- copper
- chloride
- iron
- manganese
- sulphate

Further Information

Reagents 50 Tests of each parameter. Includes soil scoop, de-ion pack, Pocket TDS Meter, SoilTest 10 Instrument and Pocket pH Meter.

The kit is ideal where highly accurate measurement of soil pH is required or where the measurement of conductivity for salt content is an important factor in agricultural management.

The pH and conductivity meters included in the kit are each supplied in a soft carrying pouch.



Soil moisture meter.

Code: [514-126](#)

Product Group: [Soil Moisture](#)

This instrument is rugged, hand-held for field derivation of soil moisture.

Buriable soil moisture blocks allow moisture levels to be measured throughout the soil profile.

It is easy to use and battery operated.

This instrument is the ideal companion for the new, slim design moisture blocks, which are placed in the soil and leads connected in turn, to the meter. The measured resistance of the block, in ohms, is converted to a corresponding reading between 0 and 100 on an empirical scale. In practical terms this empirical range covers the soil suction range 0.2 to 15 bar and using the calibration graphs of soil moisture content (dry weight percentage) against soil suction in bars, the soil moisture content may be determined.

In practical situations, resistance blocks are often placed at various depths in the soil to monitor soil moisture content profiles across the root zone. Experience will determine the optimum depth of placement depending on the particular soil type.

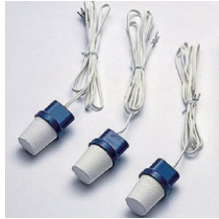
The soil moisture blocks are designed for use with this particular meter and give a uniform and quick response, made possible by their slim design (20mm diameter).

Further Information

Specification

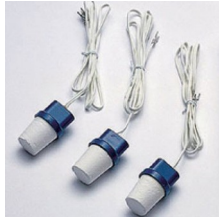
Measuring range	0-100 empirical range corresponds to 0.2-15 bar
Power requirements	1 x 9V battery (supplied)
Weight	0.24 kg

Accessories



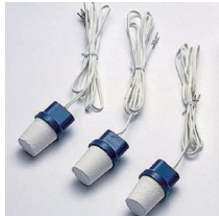
Soil Moisture Block 0.9 m Lead

Code: [514-128](#)



Soil Moisture Block 2.7 m Lead

Code: [514-130](#)



Soil Moisture Block 4.5 m Lead

Code: [514-132](#)



ELE Computerised Cone Penetrometer C/W Gps Receiver 128K

Code: [516-045](#)

Product Group: [Penetrometer](#)

Supplied complete with rechargeable battery, case and 64K memory.

Spares/Consumables



Spare Cone and Shaft Assembly

Code: [516-045/10](#)



Colony Counter 220-240V 50Hz 1Ph.

Code: [535-210/01](#)

Product Group: [Microbiology](#)

- Uniform glare-free illumination.
- Angled front for operator comfort.
- Counter triggered by depressing petri dish.
- Digital display of results.
- Built in magnifier.

The petri dish is placed on the viewing and every time a colony is pressed a count is registered and accompanied by an audible tone. Both the amount of pressure needed to register a count and the volume of the tone are adjustable. The built-in adjustable magnifier enables samples to be examined more easily. For use with up to 10 cm glass or plastic petri dishes.

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Further Information

For 220-240 V, 50 Hz, 1 ph.



225 Litre Drying Oven

Code: [78-1250/01](#)

Product Group: [Percentage Refusal Density \(PRD\)](#),
[Oven Drying Method](#), [Oven Drying Method](#), [Oven Drying Method](#)

Standards

EN 12697-32, EN 13280-4, BS 598-104, BS 1377

Specification

Capacity	225 litres
External Dimensions (l x w x h)	540 x 1040 x 940
Internal Dimensions (l x w x h)	440 x 920 x 600
Fluctuation	± 0.75°C
Rated power heater elements	2000 W
Shelves supplied	3
Shelf positions	4
Weight	80 kg

Alternatives



100 Litre Drying Oven

Code: [78-1225/01](#)



150 Litre Drying Oven

Code: [78-1235/01](#)



50 Litre Drying Oven

Code: [78-1215/01](#)

Product Sheet

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Drying Oven 425 Litre Capacity

Code: [78-0135/01](#)