



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

This wishlist was generated on 10/08/2017, and contains the following Products:

78-1250/01

225 Litre Drying Oven

83-4180/01

High Temperature Laboratory Furnace (1600C) 220-240V 50/60 Hz

430-020

Digital pH/Temp/mV Meter with electrode, carrying case and pH 4 & 7 buffers

525-402/01

**Basic 6-Place Soxhlet Extraction System Less Glassware & Connections
220-240V 50/60Hz 1Ph.**

525-403

**Set of Soxhlet Glass Parts Including 1 Flask 500ML 1 Extractor 150ML and
Condenser**

525-404

Holder with Clamp for Soxhlet Glass Parts

525-406

Cooling Water Feed Pipe for 525-402 Series with 6 Fastening Clamps.

81-0140

Spatula 200 mm

485-031/01

**Uv/Vis Spectrophotometer with 100 Plastic Cuvettes 10X10mm Cell Holder
Instructions & Mains Lead**

81-4030

Sample Tray - 406 x 406 x 50 mm

82-8600/01

Water Bath - 18 litres

82-8020/01

Distilled Water Still

535-210/01

Colony Counter 220-240V 50Hz 1Ph.

78-1235/01

150 Litre Drying Oven

46-4825/01

Magnetic Stirrer

23-3505

Mortar and Pestle Porcelain.

78-5335/01

Electronic Balance - 220g x 0.001g

500-112

Pocket altimeter

500-106

Clinometer

520-260

Large Current Flow Meter Wading Set for Velocities 0.03 to 10 M/S.

82-2100

Desiccator - Non-vacuum

78-5447/01

Electronic Balance - 3600g x 0.01g

514-126

Soil moisture meter.

514-444

Double Ring Infiltrometer

23-4090

38mm Hand Operated Hydraulic Sample Extruder with Trimming Knife 38mm Split Former & Cutting Tool.

23-1577

38mm Diameter Sample Tube 230mm Long Complete with End Caps.

506-250/10

Class A Evaporation Tank.

38-0200/01

ELE Flame Photometer

38-0320/01

Air Compressor

38-0250

Calcium Filter

24-2830

Gas Jar 75mm Dia X 300mm with Glass Cover and Rubber Bung.

560-040

Digital Grain Thermometer

503-062

Hand-Held Anemometer.

78-3104/01

Digital Hotplate



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](#)



425 Litre Drying Oven

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

Product Sheet

www.ele.com
+44 (0) 01525 249 200



50 Litre Drying Oven

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



High Temperature Laboratory Furnace (1600C) 220-240V 50/60 Hz

Code: 83-4180/01

Product Group: N/A

Silicone carbide heated high temperature chamber furnace with a 3 litre capacity and a maximum operating temperature of 1600°C. The furnace has a robust construction and high quality elements that provide rapid heating rates (typically reaching 1400°C in under 40 mins) and a long reliable working life.

Further Information

- 1600°C maximum operating temperature
- Silicon carbide heating elements provide long life and are able to withstand the stresses of intermittent operation
- High quality controller, with single ramp to set-point & process timer
- Hard wearing refractory brick door surround and silicon carbide hearth
- Low thermal mass insulation for high energy efficiency

Specification

Heat-up time (mins)	42
Dimensions:	120 x 120 x 205
Internal H x W x D (mm)	
Dimensions: External H x W x D (mm) H (door open)	655 x 435 x 610 (905)
Configuration	Bench-top
Max power (W)	2300
Power supply required (W)	4500
Thermocouple type	R
Weight (kg)	42
Power supply required per phase	200-240V single phase 36A



Digital pH/Temp/mV Meter with electrode, carrying case and pH 4 & 7 buffers

Code: **430-020**

Product Group: **Paqualab Test Meters**

Robust waterproof case offering IP66/67 protection

Manual/automatic temperature compensation

Easy to use re-calibration function

The 430-020 pH meter is a three-in-one instrument that features a large easy to read, LCD display that indicates pH over the range of -2 to 16 pH with a resolution of 0.01 pH, mV over the range of -1000 to 1000 mV and temperature over the range of -39.9 to 149.9°C with a resolution of 0.1°C. The LCD display features both low battery indication and a user selectable backlight.

The pH readings are either manually or automatically temperature compensated over the range of 0 to 100°C. To automatically compensate, it is necessary to utilise a thermistor temperature probe. Each unit incorporates an auto-power off facility that automatically turns the instrument off after ten minutes, maximising battery life.

The 430-020 has an integrated rubber seal to ensure complete water resistance and helps to reduce the possibility of damage in harsh environments. At the touch of a button, the instrument will automatically re-calibrate (two-point autocal) itself when used in conjunction with pH buffer solutions.

Each unit incorporates an easy to use BNC connector and Lumberg screw-locking type connector.

Further Information

Specification

Range	Resolution	Accuracy
-2 to 16 pH	0.01 pH	± 0.02 pH
± 1000 mV	1 mV	± 1 mV
-39.9 to 149.9 °C	0.1 °C	± 0.4 °C (-10 to 70 °C)
Battery	3 x 1.5 volt AAA	
Battery Life	Maximum 5 years (2500 hours)	
Sensor Type	Combination electrode/ thermistor	
Display	12 mm LCD	
Dimensions	32 x 71 x 141mm	

Product Sheet

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Weight 230 grams

Spares/Consumables



Spare pH electrode for use with 430-020 meter

Code: [430-020/10](#)



Basic 6-Place Soxhlet Extraction System Less Glassware & Connections 220-240V 50/60Hz 1Ph.

Code: [525-402/01](#)

Product Group: [Soxhlet apparatus](#)

The soxhlet apparatus is used for the continuous extraction of fats and oils from solid material using an organic solvent such as petroleum ether. In a practical agricultural context the method is usually applied to the determination of "oil content" in agricultural produce such as sunflower and other oil seeds.

The material to be extracted is usually placed in a porous paper thimble and continuously condensing solvent allowed to percolate through it before returning to the boiling vessel either continuously or intermittently. The solvent can then be evaporated off to leave the fat.

A 4 place and 6 place system is available. Each heating unit has individual hotplates of 85 mm diameter with stepless heating control so that the temperature of each hotplate can be operated individually. The heating unit has a lacquered sheet steel casing with an enamelled top plate. The basic extraction system is supplied complete with top moulds, air bath inserts support rods, 600 x 12 mm and a connection cable.

Accessories



Cooling Water Feed Pipe for 525-402 Series with 6 Fastening Clamps.

Code: [525-406](#)



Holder with Clamp for Soxhlet Glass Parts

Code: [525-404](#)



Paper Thimble Double Thickness 22 X 80mm Box of 25.

Code: [525-423](#)



Set of Soxhlet Glass Parts Including 1 Flask 500MI 1 Extractor 150MI and Condenser

Code: [525-403](#)



Set of Soxhlet Glass Parts Including 1 Flask 500ml 1 Extractor 150ml and Condenser

Code: [525-403](#)

Product Group: [Soxhlet apparatus](#)

Consisting of 1 flat bottomed flask 500 ml, 1 extractor
150 ml capacity and 1 condenser.



Holder with Clamp for Soxhlet Glass Parts

Code: [525-404](#)

Product Group: [Soxhlet apparatus](#)

For Soxhlet Glass Parts



Cooling Water Feed Pipe for 525-402 Series with 6 Fastening Clamps.

Code: [525-406](#)

Product Group: [Soxhlet apparatus](#)

Made of nickel plated brass, for intake and outflow, with 4 fastening clamps.



Spatula 200 mm

Code: [81-0140](#)

Product Group: [Determination of Plastic Limit, Spatulas](#)

Further Information

****NOT AVAILABLE FOR SALE IN THE USA****

Accessories



Vibrating Hammer

Code: [47-0455/01](#)

Alternatives



Vibrating Hammer

Code: [47-0455/01](#)



Uv/Vis Spectrophotometer with 100 Plastic Cuvettes 10X10mm Cell Holder Instructions & Mains Lead

Code: [485-031/01](#)

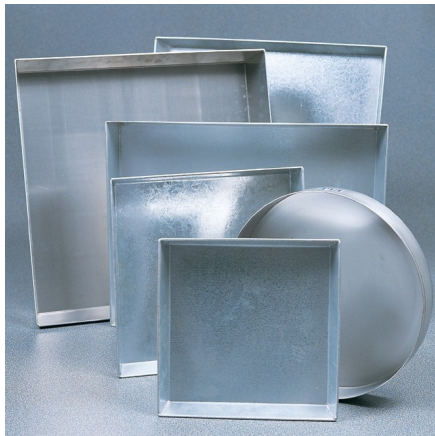
Product Group: [General laboratory instrumentation](#)

Spares/Consumables



Spare Xenon lamp module

Code: [485-031/10](#)



Sample Tray - 406 x 406 x 50 mm

Code: [81-4030](#)

Product Group: [Sample Trays](#)

Further Information

****NOT AVAILABLE FOR SALE IN THE USA****



Water Bath - 18 litres

Code: [82-8600/01](#)

Product Group: [Water Baths](#)

Further Information

****NOT AVAILABLE FOR SALE IN THE USA****

Specification

Capacity	18 litres
Working area	390 x 300 mm
Tray	Yes
Max Water Depth	131 mm
Controller	Digital
Temperature range and stability °C	1 to 99.9 ± 0.1
Electrical supply	221 – 240 V AC, 50 - 60 Hz, 1 ph
Rated power kW	1.6
Weight	9.2 kg



Distilled Water Still

Code: [82-8020/01](#)

Product Group: [Distilled Water Still](#)

Further Information

****NOT AVAILABLE FOR SALE IN THE USA****

Specification

Dimensions (l x w x h)	590 x 530 x 940 mm
Boiling chamber	Glass
Condenser	Borosilicate glass
Output	3.5 litres/hr when permanently connected to water supply
Electrical supply	220 – 240 V AC, 50 - 60 Hz, 1 ph
Rated power	2.75 kW
Weight	12 kg



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.



150 Litre Drying Oven

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

Product Group: [Oven Drying Method](#), [Oven Drying Method](#), [Oven Drying Method](#)

Standards

BS 2648, BS 598, BS 1377, BS 1924

Further Information

****NOT AVAILABLE FOR SALE IN THE USA****

Alternatives



100 Litre Drying Oven

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



225 Litre Drying Oven

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



425 Litre Drying Oven

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



50 Litre Drying Oven

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



Magnetic Stirrer

Code: [46-4825/01](#)

Product Group: [Ring and Ball Apparatus](#)

Utilises a rotating magnetic field to induce variable speed stirring action. A built-in regulating transformer provides fine temperature control of liquid up to a maximum temperature of +150°C. The unit is suitable for use with the Ring and Ball Apparatus.

Standards

EN 1427, BS 2000-58

Further Information

****NOT AVAILABLE FOR SALE IN THE USA****



Mortar and Pestle Porcelain.

Code: [23-3505](#)

Product Group: [Sample Reduction](#)

Thick walled porcelain mortar; 107mm internal diameter and porcelain pestle.

Alternatives



Heat of Hydration Apparatus

Code: [38-4600/01](#)



Heat of Hydration Apparatus

Code: [38-4600/06](#)



Rubber Headed Pestle.

Code: [23-3500](#)



Electronic Balance - 220g x 0.001g

Code: [78-5335/01](#)

Product Group: [Electronic Balances](#)

Further Information

****Not available for sale in the USA****

Specification

Capacity resolution	220 g x 0.001 mg
Pan size	120 mm dia
Mains and battery	No
Dimensions (w x d x h)	220 x 310 x 270 mm
Weight	12 kg
Weighing units	g, mg, ct, GN, N, oz, ozt, dwt, T, custom unit
Readability	0.001 mg



Pocket altimeter

Code: [500-112](#)

Product Group: [Surveying Equipment](#)

With combination holder, as specified.



Clinometer

Code: [500-106](#)

Product Group: [Surveying Equipment](#)

A hand-held precision instrument for determining heights, slopes and vertical angles. The direct sighting device has the peak scale reading visible through the eye piece. Percentage and degree scales permit quick calculation of object heights using a known base line distance. Used by foresters, geologists and surveyors throughout the world.



Large Current Flow Meter Wading Set for Velocities 0.03 to 10 M/S.

Code: [520-260](#)

Product Group: [Flow meters](#)

Consisting of current meter, revolution counter, wading rods, base and knob, 3 metres wading cable. All packed into carrying case.

Further Information

Case dimensions: 850 x 180 x 220 mm

Accessories



Pc Download Cable for Current Flow Meter.

Code: [520-261](#)



Desiccator - Non-vacuum

Code: [82-2100](#)

Product Group: [Desiccators](#)

200 mm internal diameter borosilicate glass. Supplied with perforated zinc disc.

Further Information

****NOT AVAILABLE FOR SALE IN THE USA****



Electronic Balance - 3600g x 0.01g

Code: [78-5447/01](#)

Product Group: [Electronic Balances](#)

Further Information

****Not available for sale in the USA****

Specification

Capacity resolution	3600 g x 0.01 g
Pan size	160 x 160 mm
Mains and battery	No
Dimensions (l x w x h)	260 x 170 x 90 mm
Weight	6 kg
Weighing units	g, kg, ct, GN, N, lb, oz, lb:oz, ozt, dwt, T, custom unit
Readability	0.1 g



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.

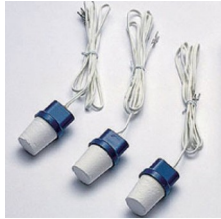
The soil moisture blocks are designed for use with this particular meter and give a uniform and quick response, made possible by their slim design (20mm diameter).

Further Information

Specification

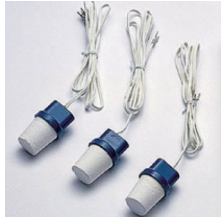
Measuring range	0-100 empirical range corresponds to 0.2-15 bar
Power requirements	1 x 9V battery (supplied)
Weight	0.24 kg

Accessories



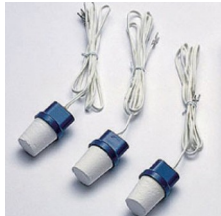
Soil Moisture Block 0.9 m Lead

Code: [514-128](#)



Soil Moisture Block 2.7 m Lead

Code: [514-130](#)



Soil Moisture Block 4.5 m Lead

Code: [514-132](#)



Double Ring Infiltrometer

Code: [514-444](#)

Product Group: [Permeability](#)

With measuring bridge and float.



38mm Hand Operated Hydraulic Sample Extruder with Trimming Knife 38mm Split Former & Cutting Tool.

Code: [23-4090](#)

Product Group: [Soil Extruders](#)

This Sample Extruder comprises a vertically mounted lever action hydraulic jack, with the body extended to form a chamber which accommodates a 38 mm diameter sample tube. Supplied complete with trimming knife, 38 mm split former and wire saw.

Standards

BS 1377-1

Alternatives



Cbr/Core Cutter Extruder Frame and Hydraulic Jack Extrudes 150mm/6 Inch Diameter Specimens.

Code: [23-4250](#)



Proctor/Core Cutter Extruder Frame and Hydraulic Jack. Extrudes 100mm/4 Inch Diameter Specimens

Code: [23-4200](#)



38mm Diameter Sample Tube 230mm Long Complete with End Caps.

Code: [23-1577](#)

Product Group: [Extension Rods, Handles and Tools](#)

Supplied without Adaptor, but with two end caps



Class A Evaporation Tank.

Code: [506-250/10](#)

Product Group: [Evaporation measurement](#)

1220 mm diameter x 254 mm high.



ELE Flame Photometer

Code: [38-0200/01](#)

Product Group: [ELE Flame Photometer](#)

Special Note: The Flame Photometer requires a source of moisture-free air at 6 litres/minute at a pressure of 1 kg/cm². It also requires a fuel source for the flame and a regulator (see accessories).

Standards

EN 196-21, ASTM C114, TEST 17

Further Information

****NOT AVAILABLE FOR SALE IN THE USA****

For 220-240 V AC, 50-60 Hz, 1 ph

Specification

Dimensions (l x w x h)	420 x 360 x 300 mm
Readout	LED three 12.5 mm digits
Sensitivity Na	3 to 100 ppm
K	3 to 100 ppm
Ca	5 to 100 ppm (optional filter)
Reproducibility	1% CV for 20 consecutive samples using 10 ppm, set to read 100
Recorder Output	Nominal 1.00 V for a reading of 100.0
Weight	8 kg

Accessories



Air Compressor

Code: [38-0320/01](#)



Barium Filter

Code: 38-0260



Calcium Filter

Code: 38-0250



Regulators for Natural Gas

Code: 38-0270



Regulators for Propane Gas

Code: 38-0280



Air Compressor

Code: [38-0320/01](#)

Product Group: [ELE Flame Photometer](#)

Supplies air at 6 litres/minute at a pressure of 1 kg/cm², for use with 38-0200/01 Flame Photometer.

Standards

EN 196-21, ASTM C114, TEST 17

Further Information

****NOT AVAILABLE FOR SALE IN THE USA****



Calcium Filter

Code: [38-0250](#)

Product Group: [ELE Flame Photometer](#)

Standards

EN 196-21, ASTM C114, TEST 17

Further Information

****NOT AVAILABLE FOR SALE IN THE USA****



Gas Jar 75mm Dia X 300mm with Glass Cover and Rubber Bung.

Code: [24-2830](#)

Product Group: [Gas Jar Method](#)

1 litre capacity complete with rubber bung and glass cover.

Standards

BS 1377, EN 1997-2

Accessories



Mechanical End-Over-End Shaker Ce

Code: [24-2854/01](#)



Digital Grain Thermometer

Code: [560-040](#)

Product Group: [Thermometers](#)

The Digital Grain Thermometer is supplied with a long stainless steel needle and is ideally suited for applications where a longer probe is required. ie grain silos.

The stainless steel probe is 1 metre in length with a diameter of 9.5mm. Probe temperature range: -75 to 250 Deg.C.

Specification

Temperature range (Deg.C)	0.1: -99.9 to 299.9
Accuracy: (Deg.C)	±0.4
Resolution (Deg.C)	0.1
Temperature range (Deg.C)	1:300 to 1372
Accuracy (Deg.C)	±0.1%
Resolution (Deg.C)	1



Hand-Held Anemometer.

Code: [503-062](#)

Product Group: [Wind measurement](#)

A robust, easy to use instrument of durable plastic construction. Wind strength/speed is clearly and accurately displayed on 4 scales (m/s, km/h, knots and Beaufort). A secure fitting transparent cap protects the cups when not in use.

Further Information

Range 0 to 120 km/hr.

Accessories



Anemometer Cups. Set of 3.

Code: [503-062/10](#)



Digital Hotplate

Code: [78-3104/01](#)

Product Group: [Digital Hotplate](#)

Further Information

****Not available for sale in the USA****

Specification

Dimensions	520 x 360 x 130 mm
Construction	Robust metal with anodised aluminium plate heated surface
Maximum temperature	300 x 1°C
Rated power	1500 W