



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

This wishlist was generated on 05/07/2017, and contains the following Products:

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418-160

**Paqualab System 50 for Analysis of Drinking Water to EC Standard Categories 1 & 2.**

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430-550

**Paqualab photometer**

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513-160

**Conductivity/Temp/TDS Meter with Electrode and Carrying Case**

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430-260

**Turbidity Meter. Range 0-1000 FTU. Supplied with Carrying Case, Batteries and Calibration Solutions**

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## Paqualab System 50 for Analysis of Drinking Water to EC Standard Categories 1 & 2.

Code: **418-160**

Product Group: **Paqualab Standard Systems**

Portable drinking water quality testing system.

Microbiological - Coliform & E.Coli.

Physical - temperature, conductivity & turbidity.

Chemical - pH, Cl, NH<sub>3</sub>, NO<sub>2</sub> & NO<sub>3</sub> plus over 40 chemical tests available.

AC/DC and rechargeable battery powered incubator.  
On-site testing for fast, accurate results.

Long-term monitoring and emergency testing of drinking water to EC and WHO guidelines.

Comprising of the ELE Paqualab incubator 50, pH/temperature/mV meter, conductivity/temperature meter, turbidity meter, 0 - 1000 FTU, ELE Paqualab photometer, and consumables for 200 tests on faecal or total coliforms, chlorine, ammonia, nitrates and nitrites.

The Paqualab is a portable testing system for the key drinking water quality parameters. The Paqualab allows the laboratory to be carried to water so that accurate results are obtained sooner even in remote areas. Laboratory standard results can be obtained by operators with the minimum of training. The equipment provided in each Paqualab has been specifically designed for field use. Aluminium replaces glass for many components for improved strength and lighter weight. The incubators have 2 pre-set temperatures that are usually set to 37°C and 44°C.

The internal battery provides sufficient power for a full incubation cycle.

Over 1000 Paqualabs are in use throughout the world for monitoring drinking water in remote areas, emergency situations, research and education. The Paqualab is a completely modular system. Standard kits are available as shown below. All items are also available individually to enable the user to build a system to meet their specific requirements. In addition, Paqualab Incubator systems contain all the hardware required for microbiological tests. Paqualab standard systems are based on the Incubator systems and also include tests for other parameters as shown below.

## Further Information

Overall dimensions 475 x 230 x 275 mm.

## Specification

Standard system

Item supplied	50 (418-160)	25 (418-150)
(420-035) Universal & Incubator 50	Yes	-
(420-030) Universal Incubator 25	-	Yes
(430-020) pH/Temp/mV meter	Yes	Yes
(513-160) Conductivity/TDS/temp meter	Yes	Yes
(430-260) Turbidity meter	Yes	Yes
(430-550) Photometer	Yes	Yes
(433-115/10) Chlorine reagent system, free combined and total pack of 250	Yes	Yes
(433-102/10) Ammonia reagent system, pack of 250 tests	Yes	Yes
(433-166/10) Nitrate reagent system, pack of 200 tests	Yes	Yes
(433-168/10) Nitrite reagent system, 4 packs of 50 tests	Yes	Yes
(422-010) Coliform starter pack. Sufficient for 200 tests	Yes	Yes

# Product Sheet

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Incubator system

Item supplied	50 (418-160)	25 (418-150)
Large rigid carrying case	Yes	-
Standard rigid carrying case	-	Yes
Universal incubator	Yes	Yes
Standard incubator	Yes	-
Incubator linking lead	Yes	-
Filtration unit	Yes	Yes
Mains lead	Yes	Yes
Battery lead	Yes	Yes
Cigar lighter plug	Yes	Yes
Aluminium petri dishes	Yes	Yes
Plastic autoclavable bottles (x4)	Yes	Yes
Dropping pipettes (x2)	Yes	Yes
Forceps	Yes	Yes
Magnifying glass	Yes	Yes
Thermometer (spirit)	Yes	Yes

Trim tool	Yes	Yes
Grease	Yes	Yes
Instruction manual in binder	Yes	Yes

## Spares/Consumables



### Aluminium Petri Dishes Pack of 25.

Code: [422-560](#)



### Coliform Starter Pack. Sufficient for 200 Tests

Code: [422-010](#)



### Filtration Unit AI Construction Complete with Sampling Cup.

Code: [420-450](#)



### Membrane Lauryl Sulphate Medium 38.1 Gram Pack. Sufficient for 200 Tests.

Code: [422-110](#)



## Pad Dispenser.

Code: [422-515](#)



## Sterile Filter Membranes and Absorbent Pads. Pack of 200.

Code: [422-508](#)

## Alternatives



## Paqualab System 25 for Analysis of Drinking Water to EC Standard Categories 1 & 2.

Code: [418-150](#)





## Paqualab photometer

Code: 430-550

Product Group: [Paqualab Test Meters](#)

Lightweight and portable for laboratory or field use.

Accurate results using tablet reagents which have a long shelf-life.

Over 40 different water tests available for use with the photometer.

Ideal for use with ELE's Paqualab systems.

This Paqualab photometer is simple to use, robust in construction and designed for on-site analysis. The photometer provides dependable results to enable decisions on water quality to be made instantly and with confidence.

Simple operation with automatic set-up for each test. Designed for reagent systems in tablet form.

Rapid access to frequently used tests from a choice of over 100 parameters/methods.

With dilution tube, 8 glass cuvettes, operating instructions and hard carrying case.

## Further Information

Test reagent tablets are not supplied. Available separately under Photometer Reagents.

## Specification

Instrument type	Dual light source photometer offering direct-reading of pre-programmed test calibrations, absorbance and transmittance
Wavelengths	450 nm, 500 nm, 550 nm, 570 nm, 600 nm, 650 nm
Accuracy	± 1.0% T
Display	320 x 240 pixel LCD with backlight and contrast adjustment
User interface	On-screen prompts available in English, French, Spanish, German, Italian, Turkish and Mandarin (Chinese)
Dimensions (w x l x h)	150 x 250 x 70 mm
Weight	975g
IP rating	IP67



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Power supply

3x 1.5V AA batteries (typically  
40 hours)

Test cuvettes

Automatic centring for  
cylindrical cuvettes from 13 to  
20 mm OD



## Conductivity/Temp/TDS Meter with Electrode and Carrying Case

Code: **513-160**

Product Group: **Paqualab Test Meters**

Hand-held Conductivity Meter with a conductivity range 0.0 $\mu$ S/cm to 200.0mS/cm, TDS range 0.01mg/l to 200.0mg/l, with electrode clip, probe and standard sachets.

Compact design with built-in, hingeing stand for bench use, IP67 protection level housing, single point calibration with automatic recognition of 3 pre-defined standards, 200 measurement memory, large segmented LCD readout, automatic linear temperature compensation from 0.00% to 10.00%/°C, automatic or manual end-point recording with audiovisual signals.

Supplied as a standard kit with electrode clip, wrist strap, instructions, batteries, probe, sealing caps 2 x 1413 $\mu$ S/cm and 2 x 12.88mS/cm standard sachets.

## Specification

Model		513-160
Ranges	Conductivity TDS Temperature	0.0 $\mu$ S/cm to 200.0mS/cm 0.01mg/litre to 200.0mg/litre 0.0 to 100.0°C
Calibration		1 point, with 3 pre-defined standards
Temperature compensation	Automatic	Adjustable, 0.0% per °C to 10.0% per °C
Reference temperature	°C	20 or 25 selectable
Input		LTW 7pin
Power		4 x 1.5V AA alkaline batteries
Overall W x D x H	mm	77 x 33 x 188
Weight	G	260



## **Turbidity Meter. Range 0-1000 FTU. Supplied with Carrying Case, Batteries and Calibration Solutions**

Code: **430-260**

Product Group: **Paqualab Test Meters**

- Easy to use.
- High range.
- Calibration data storage facility.
- Results displayed as FTU.
- Water resistant.

Suitable for testing either natural and treated water, or waste water and effluents.

This portable microprocessor-based turbidity meter provides lab-grade accuracy even in the field. With 4 keys and weighing only 510 grams, the meter measures turbidity from 0 to 1000 FTU (NTU). For best field accuracy, it measures from 0 to 50 FTU in steps of 1/100th of FTU.

Unlike standard lamps, the infrared LED has a long life. More significantly, it maintains constant emission for the entire life of the instrument. The wavelength peaks at 890nm, which provides the required intensity of diffused light even in samples with low turbidity values, and also reduces the interference from any colours.

The meter is very easy to use. All operations can be carried out with only four keys and troubleshooting functions can be performed with error code on LCD. Moreover, the meter's versatility and durability ensure low maintenance.

The meter can store and retrieve the last calibration data. At the touch of a key, the last calibration data together with time and date are displayed allowing the user to maintain an accurate calibration schedule. auto shutoff turns the meter off after 5 minutes of non-use to save batteries.

The turbidity meter comes supplied with 2 cuvettes, tissues, cleaning solution and calibration solutions for 0 and 10 FTU.

## **Specification**

Range	0.00 to 50.00 FTU; 50 - 1000 FTU.
Resolution	0.01 FTU (0.00 to 50.00 FTU); 1 FTU (50-1000 FTU).
Accuracy	± 0.5 FTU or ± 5% of reading (whichever is greater).

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Battery life	60 hours or 900 measurements. Automatic shut-off after 5 minutes of non-use. (4 x 1.5 VAA batteries).
Weight	510g (including case and calibration solutions).
Dimensions	220 x 82 x 66 mm.