

Water Testing

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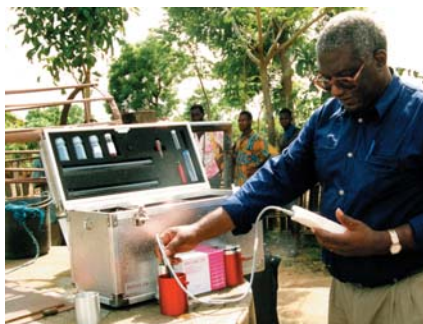
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Note:

For stock, reagents and consumables please contact our water products specialist on:

+44 (0) 1635 872 929

Water Testing Laboratory, Portable, Potalab® wagtech

Portable testing laboratory designed to assess the suitability of drinking water on-site, even in remote areas.

Potalab® 1 is a portable microbiological and physico-chemical testing laboratory. It provides bacteriological testing using the accepted method of membrane filtration and incubation of faecal and total coliforms as an indicator of the presence of other harmful bacteria and viruses. The physico-chemical instruments are used in combination to quickly examine a supply to determine if a more detailed microbiological examination is required. All equipment is easily packed within the aluminium case for complete portability.

Potalab® 2 provides the same equipment and facilities as Potalab® 1, but without the physico-chemical instrumentation. The purpose of this unit is for microbiological testing only.

- For combined microbiological, physico-chemical testing in the lab or field
- Wide range of physico-chemical parameters can be measured using highly accurate digital instruments
- More cost effective than central laboratory testing
- Simple technique - dual incubator allows analysis of both faecal & total coliforms simultaneously
- Results incubated in just 14 hours
- Completely portable - even runs off solar power
- Uses low cost, long-life consumables, and equipment is easily sterilised in the field
- Supplied with reagents for Ammonia, Arsenic, Chlorine, Fluorides, Nitrites and Nitrates as standard. Other parameters available on request
- Conforms to WHO Guidelines



Bacteriological Testing:

The bacteriological filtration unit is supplied with a pistol grip vacuum pump, sampling cup and line, alongside 200 pads, gridded membranes and 38.1g membrane lauryl sulphate broth.

Digital Dual Incubator:

Microbiological testing is carried out using twin incubators for simultaneous incubation of Faecal and Total Coliforms if required. The temperature is digitally controlled and preset to 37°C and 44°C with an accuracy of $\pm 0.1^\circ\text{C}$.

- Holds 2 racks of 25 petri-dishes allowing for up to 50 test's at any one time
- Features digital automatic timer facility for logging the incubation period in case of power failure
- Fully portable can be powered by mains, internal battery, vehicle battery (cigarette lighter lead supplied) or even solar power

Temperature Range, °C	20 to 50 with preset levels at 37 or 44, automatic timer
Display	Clear digital LCD, 0.1°C resolution
Capacity	2X25 aluminium dishes, 2X8 plastic/glass dishes
Accuracy, °C	± 0.1
Mains Power (AC)	220-240V, 50Hz, 110V, 60Hz,
Battery Power (DC)	Integral 12V re-chargeable battery through lead with crocodile clips and vehicle cigarette lighter socket plug
Dimensions, mm	200 x 180 x 220
Weight, Kg	6

Physico-Chemical Testing:

The following instruments are supplied as standard in the Potalab® 1 to enable the measurement of specific parameters for this analysis:

**Turbidity Meter | pH/temp/mV Meter | Conductivity/TDS Meter
Digital Arsenator | Photometer 7100**

Purchase Specifications

Potalab® comprises the following components: Twin incubator with digital temperature display and automatic timer facility. 50 re-usable aluminium petri dishes. (inc: petri dish rack). Electrical leads for AC110/220V operation, DC operation via vehicle cigarette lighter and crocodile leads along with separate re-chargeable battery (external to incubator, but internal to carrying case). Membrane filtration unit including collection flask, sampling cup, land line plus bronze disk, gaskets, O-rings, and pistol grip vacuum pump. 200 pads and membranes with pad dispenser, 38.1g membrane lauryl sulphate broth for 200 tests, 5 unique media measuring devices (mmd) for measuring precise amounts of lauryl sulphate broth (i.e, 10 tests only). Tweezers, 5 dropping pipettes, 4 autoclavable plastic bottles, hand lens, lighter, pen, clippers, screwdriver and a tube of lubrication grease. Conductivity/TDS Meter, pH/Temp/mV meter and a digital turbidity meter. Wagtech photometer with reagents for chlorine, nitrates, nitrites, ammonia and fluorides. Wagtech Digital Arsenator inc: filters, tablets and filter holders, sufficient for 200 Arsenic tests.

Catalogue No	Model	Description
W220-010	Potalab® 1	Portable water testing laboratory for microbiological and physico-chemical testing (weight 20Kg)
W220-020	Potalab® 2	For microbiological testing only (weight 18Kg)



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T820-110



Turbidity Meter

Catalogue No	T820-110
Range	0 to 1000 NTU
Resolution	0.01, 0.1, 1 NTU (dependent on measurement & range)
Accuracy	±2%/±3% of reading
Calibration	Push button at 0.02, 20.0, 100 & 800 NTU
Dimensions	68(W) x 155(L) x 46(H) (mm)
Weight	200g
	Supplied with calibration kit and carrying case

P352-234



pH/temp/mV Meter

Catalogue No	T352-234
pH Range	-2.00 to 16.00
Resolution & Accuracy	0.01 & ±0.01 pH
mV Range	±199.9 mV & ±1999 mV (Extended)
Resolution & Accuracy	0.1 mV & ±0.2 mV (within ±199.9 mV); 1 mV & ±2 mV (beyond ±199.9 mV)
Temperature Range	-10 to 110 °C
Resolution & Accuracy	0.1 °C & ±0.5 °C
No. of Calibration Points	Up to 5 points
ph Buffer Options	pH 1.68, 4.01, 7.00, 10.01, 12.45
Temperature Compensation	Automatic / Manual (0 to 100 °C)
Special Functions	Averaging/Stability; Self-diagnostic; Hold & Auto-Power Off after 20 minutes
Power	4 'AAA' x 1.4V batteries or 9VDC power adaptor Supplied with electrodes and buffer solutions.

C551-210



Conductivity/TDS Meter

Catalogue No	C551-210
Conductivity Range	0 to 19.99, 199.9, 1999 µgS/cm; 2.00 to 19.99, 199.9 mS/cm
TDS Range	0 to 9.9, 99.9, 999 ppm; 1.00 to 9.99, 99.9ppt
Resolution	0.01, 0.1, 1µgS; 0.01, 0.1mS (Conductivity) 0.01, 0.1, 1ppm; 0.01, 0.1ppt (TDS)
Accuracy	±0.2, 2, 20µgS/cm; ±0.2, 2mS/cm (Cond) ±0.1, 1, 10ppm; ±0.1, 1ppt (TDS)
Temperature Range	-10 to 110.0°C
Resolution & Accuracy	0.1 °C & ±0.5 °C
TDS Factor	Adjustable 0.40 to 1.00
No. of Calibration Points	5 points (1 per range)
Temperature Compensation	Automatic / Manual (0 to 100 °C)
Special Functions	Auto-ranging; Averaging/Stability; Self-diagnostic; Hold & Auto-Power Off
Power	4 x 1.4V batteries or 9VDC power adaptor Supplied with calibration standards.

W220-360



Digital Arsenator

Catalogue No	W220-360
Range	2-100 ppb
Timing Facility	Up to 40 minutes
Resolution	LCD digital display
Power	PP3 9v Battery (included)
Resolution	0.001au
Consumables	Supplied with sufficient reagents and filters for 420 tests.

Reagents for use with 7100 Photometer

The Potalab Photometer 7100 offers a precise modern means of water analysis using an advanced solid-state digital readout colorimeter.

The New Photometer 7100 is fully integrated with the Wagtech system of water analysis. It offers a great value instrumental analysis for an extensive range of water tests.

The photometer 7100 accurately assesses the colour formed in the test sample and displays the readings directly in concentration units on its large LCD screen - no more inaccurate results due to variation in operator eyesight or lighting conditions.

Test	Range mg/l	250/200* Test Packs
Alkalinity, total (Alkaphot)	0 – 500	P355-110
Alkalinity M (Alkaphot M)	0 – 500	P355-112
Alkalinity P (Alkaphot P)	0 – 500	P355-114
Aluminium	0 – 0.5	P355-116
Ammonia	0 – 1.0 (N)	P355-118
* Boron	0 – 2.5	P355-120
Bromine	0 – 6.0	P355-122
Calcium Hardness (Calcicol)	0 – 0.5 (N)	P355-124
Chloride	0 – 5.0	P355-126
Chlorine DPD 1	0 – 5.0	P355-128
Chlorine DPD 2 (Free, Mono & Di chloroamine)	0 – 5.0	P355-130
Chlorine DPD 3 (Free, Combined & Total)	0 – 5.0	P355-132
Chlorine DPD 4	0 – 5.0	P355-134
Chlorine HR	0 – 250	P355-136
Copper (Coppercol)	0 – 5.0	P355-138
Cyanuric Acid	0 – 200	P355-140
* Fluoride	0 – 1.5	P355-142
Hardness (Hardicol)	0 – 500	P355-144
Hydrogen Peroxide LR	0 – 2.0	P355-146
Hydrogen Peroxide HR	0 – 100	P355-148
Iron LR	0 – 1.0	P355-150
Iron HR	0 – 10	P355-152
Magnesium (Magnecol)	0 – 100	P355-154
Manganese	0 – 0.03	P355-156
Molybdate LR	0 – 15	P355-158
* Molybdate HR	0 – 100	P355-160
Nitrate (Nitratetest)	0 – 20 (N)	P355-162
Nitrite (Nitricol)	0 – 0.5 (N)	P355-164
Nitrite (Nitriphot)	0 – 1500	P355-166
Organophosphate	0 – 20	P355-168
Ozone	0 – 2.0	P355-170
* pH (Phenol Red)	6.8 – 8.4	P355-172
Phenol	0 – 5.0	P355-174
Phosphate LR	0 – 4.0	P355-176
Phosphate HR	0 – 100	P355-178
* Potassium	0 – 12	P355-182
Silica	0 – 4.0	P355-184
* Sulphate	0 – 200	P355-186
Sulphide	0 – 0.5	P355-188
Sulphite (Sulphitest)	0 – 500	P355-190
Zinc	0 – 4.0	P355-192

Catalogue No	P355-100
Instrument Type	Direct reading colorimeter with automatic set up
Operating wavelengths	450nm 500nm 550nm 575nm 600nm 650nm
Display	Large Backlit graphic LCD screen
Accuracy	+/- 0.5% at 4% transmittance
Resolution	0.001au
User selectable options	Display language (French, German, Spanish, English, Italian) Test units
Test cells	Automatic adjustment for round test tubes from 12-20mm diameter
Power	Battery power (3 x AA)
Size and weight	W 146mm D 275mm H 75mm
Instrument rating	Waterproof (IP67)





Water Testing Laboratory, Portable, Potakit® wagtech

Portable testing laboratory designed to assess the suitability of drinking water on-site, even in remote areas.

Capable of carrying out all the same tests as the Potalab, however the Potakit features less sophisticated instrumentation which in many cases makes the Potakit a more attractive and cost-effective choice.

Potakit® 1 is a low-cost, fully portable microbiological and physico-chemical testing kit designed to measure the key parameters of drinking water quality in the field. The instruments in the Potakit use simple techniques with low cost consumables to enable those with a non-technical background and minimum training to obtain accurate test results. Potakit® 1 measures the following parameters **Faecal and Total Coliforms, pH, Conductivity, Turbidity, Chlorine, Nitrates Nitrites, Ammonia, Fluorides and Arsenic.**

Potakit® 2 is for microbiological use only.

- Single incubator, capacity of 20 petri dishes, temperature switchable between 37 and 44°C, allows incubation of either faecal or total coliforms
- Fully portable Incubator - can be powered via external rechargeable battery, AC mains operation, DC operation via vehicle lighter socket or even solar power
- Waterproof, digital pocket meters for pH and Conductivity
- Two part turbidity tube
- Colour Comparator for testing over 30 different chemical parameters
- Includes the VCDK arsenic testing device for the visual, quantitative analysis of arsenic to ppb levels
- Uses, long-life, low-cost reagents and consumables available locally through Wagtech in-country representatives
- Supplied with reagents & consumables to carry out 200 microbiological tests and 200 tests each of Ammonia, Arsenic, Chlorine (DPD1 & 3), Fluoride, Nitrites and Nitrates
- Comprehensive but simple to use operation manuals for all instruments
- All components housed in a single, lockable, water-proof aluminium carry case



Microbiological Analysis Potakit® 1 & 2:

The Potakit® Incubator

This small single portable incubator will allow a complete and accurate bacteriological analysis to be carried out in the field, for the analysis of Faecal and total coliforms (switchable between 44 °C & 37°C).

- A total of 20 tests can be carried out at one time
- Petri Dishes held in aluminium racks for easy loading
- Totally portable – can run off mains, vehicle (cigarette lighter lead supplied) or even solar power

Temperature setting	Switchable between 37°C and 44°C
Capacity	20 Petri dishes
Accuracy, °C	±0.2
Mains power (AC)	220-240V, 50Hz, 110V, 60Hz,
Battery power (DC)	Integral 12V re-chargeable battery through lead with crocodile clips and vehicle cigarette lighter socket plug
Dimensions, mm	155 x 230 x 200
Weight, Kg	3.3



Purchase Specifications

Potakit® comprises the following components:

A single incubator, switchable between 37°C & 44°C, spirit thermometer, 20 re-usable aluminium petri dishes.

Power supply to incubator is via an integral 220/110V AC mains adaptor/ battery charger, electrical lead for 12V DC operation via vehicle dash board cigarette lighter, and crocodile lead for use with re-chargeable battery.

Membrane filtration unit inc: (same specifications as supplied in Potalab except hand pump is rubber vacuum type)

Pocket conductivity meter, pH meter, a 2 part turbidity tube, a Wagtech colour comparator with colour discs and reagents for 200 tests of Chlorine, Nitrates, Ammonia, Nitrites and Fluorides; and the Wagtech Visual Arsenic Kit (VCDK). All of which is supplied in a robust aluminium case.



Catalogue No	Model	Description
W220-130	Potakit® 1	Portable water testing laboratory for microbiological and physico-chemical testing (weight 10Kg)
W220-140	Potakit® 2	For microbiological testing only (weight 9Kg)

Note:

For additional spares and accessories for the potakit please contact:

+44(0) 1635 872929

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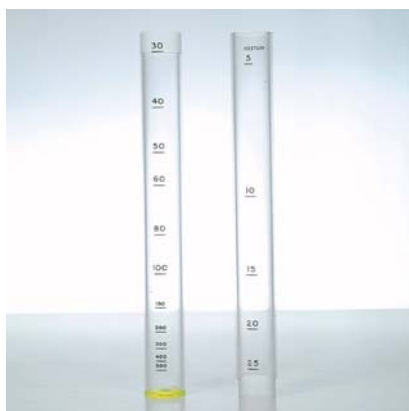
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Physico-Chemical Analysis

The following instruments are supplied as standard in the Potakit® 1 to enable the measurement of specific parameters for this analysis:

pH Meter | Conductivity Meter | Arsenic Detection kit (VCDK) | Turbidity Tube | Colour Comparator

pH Meter, Waterproof

wagtech
international

Catalogue No	P352-058
Range	-1.0 to 15.0 pH
Resolution	0.01 pH
Accuracy, °C	± 0.5°C / ± 0.9°F
Accuracy	3 pt (4.0, 7.0 or 10.0)
Calibration	3 pt (4.0, 7.0 or 10.0)
ATC	Yes
Electrode Type	Double junction
Battery Life	> 500 hrs

Conductivity Meter, Waterproof

wagtech
international

Catalogue No	C551-058
Multi Range	To 200
Resolution	0.1µs/cm, 1µs, 0.01µs/cm
Accuracy, °C	± 1% of full scale
ATC	Yes
Temperature Display	0 To 50°C or 32 To 122°F
Temperature Calibration	Yes
Battery Life	> 150 hrs

Arsenator Detection Kit (VCDK)

wagtech
international

This kit features a unique tri-filter arsenic trap which removes excess arsine gas as well as any hydrogen sulphide which also may be given off as a by-product of the reaction.

- Colour Chart (readings up to 10-500 ppb)
- Sufficient filters tablets & filter holders to conduct up to 200 tests.

Catalogue No	W220-370
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Turbidity tube

wagtech
international

2 Part acrylic tube, graduated 5 to 500 JTUs. Uses extinction method.

Catalogue No	T705-484
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Colour Comparator Kit

wagtech

The colour comparator is quick and easy to use and gives accurate reliable results. The kit is used in conjunction with tablet reagents and colour charts to test 32 different parameters. Just add a tablet reagent to the test sample, place the tube in the comparator and match the colour against the appropriate colour disc. The kit includes: comparator, 4 square cuvettes and dilution tube. The kit contains no reagents or discs these should be ordered separately.

Catalogue No	Description
W275-190	Colour comparator kit



Colour Discs

Catalogue No	Test	Range, mg/l
W275-200	Alkalinity (Alkavis) 0 – 250	0 – 250
W275-202	Aluminium 0 – 0.5	0 – 0.5
W275-204	Ammonia 0 – 1.0	0 – 1.0 (N)
W275-206	Bromine 0 – 2.0	0 – 2.0
W275-208	Bromine 0 – 8.0	0 – 8.0
W275-210	Chlorine DPD 0 – 5.0	0 – 5.0
W275-212	Chlorine DPD (Mono & Di Chloramine)	0 – 5.0
W275-214	Chlorine DPD (combined & total)	0 – 5.0
W275-216	Chlorine DPD (total)	0 – 50
W275-218	Chlorine HR	0 – 50
W275-220	Chlorine HR	0 – 250
W275-222	Copper (Coppercol)	0 – 5.0
W275-224	Fluoride	0 – 1.5
W275-226	Hydrogen Peroxide LR	0 – 2.0
W275-228	Hydrogen Peroxide HR	0 – 100
W275-232	Iron MR	0 – 5
W275-234	Manganese	0 – 0.03
W275-236	Molybdate HR	0 – 100
W275-238	Nitrate (Nitratetest)	0 – 20 (N)
W275-240	Nitrite (Nitricol)	0 – 0.5 (N)
W275-242	Ozone	0 – 2.0
W275-244	pH value (Bromocresol Purple)	5.2 – 6.8
W275-246	pH value (Bromothymol Blue)	6.0 – 8.4
W275-248	pH value (Phenol Red)	6.8 – 8.4
W275-250	pH value (Thymol Blue)	8.0 – 9.6
W275-252	pH value (Universal pH)	4.0 – 11.0
W275-254	Phosphate LR	0 – 4.0
W275-256	Phosphate HR	0 – 100
W275-258	Silica	0 – 4.0
W275-260	Sulphide	0 – 0.5
W275-262	Zinc	0 – 4.0

Comparator Reagents, Pack 250 Tests

Catalogue No	Test	Range, mg/l
W275-300	Alkalinity (Alkavis) 0 – 250	0 – 250
W275-302	Aluminium 0 – 0.5	0 – 0.5
W275-304	Ammonia 0 – 1.0	0 – 1.0 (N)
W275-306	Bromine 0 – 2.0	0 – 2.0
W275-308	Bromine 0 – 8.0	0 – 8.0
W275-310	Chlorine DPD 0 – 5.0	0 – 5.0
W275-312	Chlorine DPD (Mono & Di Chloramine)	0 – 5.0
W275-314	Chlorine DPD (combined & total)	0 – 5.0
W275-316	Chlorine DPD (total)	0 – 50
W275-318	Chlorine HR	0 – 250
W275-320	Copper (Coppercol)	0 – 5.0
W275-322	Fluoride	0 – 1.5
W275-326	Hydrogen Peroxide LR	0 – 2.0
W275-328	Hydrogen Peroxide HR	0 – 100
W275-330	Iron LR	0 – 1.0
W275-332	Iron MR	0-10
W275-336	Manganese	0 – 0.03
W275-338	Molybdate HR	0 – 100
W275-340	Nitrate (Nitratetest)	0 – 20 (N)
W275-342	Nitrite (Nitricol)	0 – 0.5 (N)
W275-344	Ozone	0 – 2.0
W275-346	pH value (Bromocresol Purple)	5.2 – 6.8
W275-348	pH value (Bromothymol Blue)	6.0 – 8.4
W275-350	pH value (Phenol Red)	6.8 – 8.4
W275-352	pH value (Thymol Blue)	8.0 – 9.6
W275-354	pH value (Universal pH)	4.0 – 11.0
W275-356	Phosphate LR	0 – 4.0
W275-358	Phosphate HR	0 – 100
W275-360	Silica	0 – 4.0
W275-362	Sulphide	0 – 0.5
W275-364	Zinc	0 – 4.0

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Water Testing Laboratory, Portable, Potaflex® wagtech

The Potaflex® portable microbiological laboratory has been designed in conjunction with ICRC and is an ideal resource for testing microbiological parameters in the field. The unique Flexi Rack System provides the user with a wide range of media options to suit their preferences and ensures the maximum amount of tests can be performed at any one time.

- Fully portable - specially designed for field use
- Extremely versatile - can test for a variety of bacteria, including: Pseudomonas, Faecal Streptococci, Coliforms. (Faecal and Total Coliforms)
- Flexi media options - wide range of pre-prepared dip slides and nutri disks can be tested
- Meets WHO & EU guidelines
- Pre-prepared dip slides are simply dipped into the water sample, inserted into the unit and then placed into the incubator

The Flexi Rack System (FRS)

This is a unique device that allows the analysis of different microbiological parameters using different methods and materials simply choose between re-usable aluminium petri dishes, pre-prepared nutri disks, pre-prepared dip slides or a combination of each. The unit can accommodate either 20 disposable nutri disks, up to 40 re-usable aluminium petri dishes or up to 10 dip slides.

Membrane Filtration System

A membrane filtration unit is supplied as standard with the Potaflex® System.

Easily sterilised and consists of:

- A collection flask
- Sample cup
- Bronze disk
- Gaskets & O rings
- Land line
- Pistol grip vacuum pump



Potaflex® Incubator System:

The incubator unit is located within a sturdy carrying case and has a temperature range of +20°C to 50°C. Typically temperatures are set at 37°C for total coliforms and 44°C for faecal coliforms and faecal streptococci. However the flexible range can be set at other temperatures such as 42°C for pseudomonas.

Temperature range	20°C to 50°C variable
Display	LCD clear digital
Capacity	40 Aluminium petri dishes, 20 nutri disks, 10 dip slides
Accuracy, °C	±0.1°C
Mains power (AC)	12V DC Power supply to incubator is via an integral 230V AC mains adaptor, plus electrical lead for 12V DC operation via vehicle cigarette lighter.
Dimensions, mm	Internal: 130 x 150 x 110 External: 200 x 250 x 180
Weight, Kg	4



Purchase Specification

Potaflex® comprises the following components: 2 litre incubator, with digital temperature display. Flexible Rack System (FRS), 20 aluminium petri dishes, 5x Media measuring device (MMD), 200 pads, membranes and 38.1g membrane lauryl sulphate broth. AC mains lead and vehicle battery cigarette lighter lead. Membrane filtration unit includes: collection flask, sampling cup, 2m land line plus bronze disk, gaskets, O-rings, and pistol grip vacuum pump. Tweezers, 5 dropping pipettes, 4 plastic bottles, hand lens, lighter pen, clippers, screwdriver and a tube of lubrication grease. All of which is housed in a rugged lockable aluminium flight case.

Catalogue No	Model	Description
W220-250	Potaflex®	Portable Water Microbiological Laboratory. (weight 10Kg)



Spares and Accessories for Potaflex®

Catalogue No	Description
W220-260	Azide nutri disks for the detection of faecal streptococci in water and foodstuffs. (pack of 100)
W220-262	Cetrimide nutri disks for the detection of Pseudomonas Aeruginosa in water and foodstuffs. (pack of 100)
W220-264	M-FC nutri disks for the detection of E.Coli and faecal coliforms in water and foodstuffs. (pack of 100)
W220-266	Plate count nutri disks for the determination of colony counts in water, milk and food. (pack of 100)
W220-270	Coliform starter pack comprising grid membranes, pads and growth medium. (for 200 tests)
W220-272	Lauryl Sulphate Broth tube of 38.1g (for 200 tests)
W220-274	Absorbent pads and membranes (for 200 tests)
W220-276	Pre-prepared dip slides, sterilised gridded dip slides, impregnated with coliform media. (pack of 25)



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W220-360



Arsenator®, Digital Portable Arsenic Testing

The Wagtech Arsenator® system is the lowest cost, most portable and accurate method for determining Arsenic in safe limits (WHO guide-lines 10 ppb/ $\mu\text{g/l}$). Carefully designed to be simple and safe to use either in the lab or in the field. The complete system comes with sufficient reagents and consumables for over 400 tests.

- Low cost digital arsenic testing device
- Fully portable, designed specially for field use
- Immediate results in the field in less than 20 minutes
- Simple, safe and easy to operate
- Gives accurate test results between the critical range of 2 $\mu\text{g/l}$ (ppb) to 100 $\mu\text{g/l}$ (ppb)
- Designed in conjunction with Prof. Walter Kosmus and laboratory tested by Imperial College London
- Field tested in conjunction with UNICEF/WHO WAT/SAN monitoring programmes
- Environmentally friendly

Range	2-100 $\mu\text{g/l/ppb}$
Timing facility	up to 40 minutes
Resolution	LCD Digital Display
Power	PP3 9V Battery

Wagtech Digital Arsenator Kit comprises the following components:

- Portable Digital Arsenator® System
- Tri-Filter Arsenic gas trap
- 5x Arsenic collection filter holders (Black)
- 5x Arsine gas removal filter holders (Red)
- 10x Hydrogen Sulphide removal filters
- 420x Reagent A1 (dry powder sachet)
- 420x Tablet A2
- 420x Arsenic collection filters
- 420x Arsine gas removal filters
- Colour comparison chart (<10 to 500ppb)
- Dilution tube
- Spare battery
- Waste disposal bags
- Gloves and tweezers
- Rugged carry case with Instruction manual

Catalogue No	Description
W220-360	Wagtech Digital Arsenator. Supplied with Reagents and Consumables for 420 tests

Arsenator® Refill Pack

Catalogue No	Description
W220-364	Refill pack contains sufficient filter holders and tablets for 200 tests



Multi-Pack Accessory Kit for Arsenator®

wagtech

W220-365

A mobile workstation consisting of 5 complete sets of Arsenic generators, allowing for up to 5 tests to be conducted simultaneously. All of which is supplied in a custom built carrying case that also provides a stable working area. To be used in conjunction with the Arsenator®

Catalogue No	Description
W220-365	Multi Pack Accessory kit for Arsenator®, contains 5 additional workstations, which comprise the following: 5 flasks, 5 Tri-filter Arsenic trap, 15 red and black filter slides, 5 colour charts and 15 Hydrogen Sulphide removal filters.
W220-364	Refill Pack contains sufficient filter holders and tablets for 200 tests



Low Cost Visual Detection Kit, VCDK®

wagtech

W220-370

A low cost, fully portable arsenic detection pack, which allows for the quantitative, visual analysis of arsenic in drinking water from less than 10 µg/l (ppb) up to 500 µg/l (ppb). The kit features a unique tri-filter arsenic trap which removes excess arsine gas as well as any Hydrogen Sulphide which may also be given off as a by-product of the reaction. Both reagents are added to the water sample in the flask and the colour chart is then visually compared to get a reading.

- Ideal for quick mass screening
- Low cost per test
- Simple and easy to operate
- Environmentally friendly
- Safe handling – no chemical liquids
- Housed in a robust custom built carry case

Wagtech Visual Detection Kit (VCDK) comprises the following components:

- 1x Unique tri-filter arsenic trap and a 125ml graduated flask
- 4x Arsenic collection filter holders (Black)
- 4x Arsine gas removal filter holders (Red)
- 4x Hydrogen sulphide filters
- Colour comparison chart (<10 to 500ppb)
- Gloves, tweezers and bags
- Sufficient tablets, reagents and filters to perform 200 tests

Catalogue No	Description
W220-370	Wagtech Visual Detection Kit. Supplied complete with the generator, 3 filter arsine gas trap and sufficient filters and tablets for up to 200 tests



Accessory Refill Pack

Catalogue No	Description
W220-364	Refill pack contains sufficient filter holders and tablets for 200 tests

Aa

Bb

Cc

Dd

Ee

Ff

Gg

Hh

Ii

Jj

Kk

Ll

Mm

Nn

Oo

Pp

Qq

Rr

Ss

Tt

Uu

Vv

Ww

Xx

Yy

Zz

7100 Photometer



Turbidity Meter



pH/temp/mV Meter



Conductivity/TDS Meter



Digital Arsenator

W220-494



Physico-Chemical Test Kits, Portable, Model CP1000

The CP1000 has been specifically designed for testing a wide range of physical & chemical water quality parameters. The kit contains a carefully selected range of high quality digital instruments that makes it ideally suited for field based drilling engineers and groundwater testing applications.

The kit is based around the new direct reading Photometer 7100. It is capable of the analysis of over 40 different chemical parameters. It is fully portable, waterproof, and features pre-programmed test methods and touch screen operation. It provides instant and highly accurate results. pH and Conductivity/TDS are measured using separate, waterproof, hand-held meters.

Turbidity is measured using a waterproof, hand-held digital meter. It is accurate in the range 0-1000NTU.

Also includes the Wagtech Digital Arsenator – the worlds only digital field instrument for the determination of arsenic in water down to ppb levels. Supplied with all the necessary calibration consumables & solutions, dilution tube, full operating instructions and water quality report sheets.

All components are housed in a waterproof, lightweight carry case for easy handling and storage.

Wagtech CP1000 comprises of the following components:

- 7100 advanced photometer
- Round test tubes (pack of 5)
- Test tube rack
- Conductivity/TDS meter
- pH/temp/mV meter
- Portable turbidity meter
- Calibration screwdrivers
- pH calibration kit
- Conductivity Calibration Kit
- Turbidity Standard
- Plastic bottles, autoclavable 60ml
- Aluminium carrying case
- Training procedure manual
- Full operating instructions
- Water quality report sheets
- Wagtech Digital Arsenator

Catalogue No	Description
W220-490	Model CP1000 physico-chemical test kit

Accessories for CP Series

Catalogue No	Description
W220-494	Public health testing reagent starter pack
W220-496	Groundwater testing reagent starter pack

W220-480



Trace Element Analyser, Portable, PTEA

wagtech

The PTEA is a portable analyser designed to identify and measure the concentrations of heavy metal ions in a wide range of matrixes. The unit comprises a small analytical cell assembly and controller used together to provide a very convenient and portable tool for on site analysis.

The controller uses on screen messages to guide the user through the analytical stages, intelligently identifying if incorrect standards or reagents are used as well as checking reagents for purity.

The principle of analysis used by the PTEA is Anodic Stripping Voltammetry (ASV), a well established electrochemical technique that has obtained internationally recognised approvals.

- Completely portable
- Allows analysis in the field or laboratory
- Low running costs easy to use
- Supplied with a powerful but easy to use software program that gives the PTEA the functionality of a laboratory instrument
- Parts per billion (ppb) detection levels
- Results obtained in as little as 30 seconds
- Self contained, needs no gases, flames, lamps, radiation sources or expensive reagents

Chemical Specifications:

- Analytical range with software 0.005ppm-32ppm
- Analytical range without software 0.01ppm-32ppm
- Resolution 1ppb
- Precision +/-5% at 100 ppb
- Calibration using standards

Lower Detection Limits for the PTEA

Element	LDL ppb (Field use)	LDL ppb (Lab use)	UDL ppm
Arsenic As	10 ppb	10 ppb	32 ppm
Cadmium Cd	10 ppb	5 ppb	32 ppm
Chromium Cr6+	10 ppb	5 ppb	32 ppm
Cobalt	10 ppb	5 ppb	32 ppm
Copper Cu	10 ppb	5 ppb	32 ppm
Lead Pb	10 ppb	5 ppb	32 ppm
Mercury Hg	10 ppb	5 ppb	32 ppm
Zinc Zn	10 ppb	5 ppb	32 ppm

Ordering information

Catalogue No	Description
W220-500	PTEA supplied complete with cell stand, 10 x 35ml disposable analysis cups, reference electrode maintenance device, PC software, re-chargeable battery and charger, mains adaptor (110 or 220VAC), user manual and waterproof carrying case.

Spares and Accessories for PTEA

Catalogue No	Description
W220-510	PTEA consumables kit (Lead, Copper, Zinc, Cadmium), sufficient for approx. 200 tests
W220-512	PTEA accessories kit comprising 1000µl, 100µl and 10ml variable micropipettes, 200µl and 1000µl pipette tips (pack of 1000 each) and 10ml pipette tips (pack of 400)
W220-514	PTEA standards kit comprising Zinc, Cadmium and Lead standard, 20mg/l, 20ml bottle (pack of 5). Cadmium Lead and Copper standard, 20mg/l, 20ml bottle (pack of 5)



Note:

Please contact our sales team for a full list of standards and Consumables for Chromium, Mercury and Arsenic

Aa

Bb

Cc

Dd

Ee

Ff

Gg

Hh

Ii

Jj

Kk

Ll

Mm

Nn

Oo

Pp

Qq

Rr

Ss

Tt

Uu

Vv

Ww

Xx

Yy

Zz

Water Testing

Aa

Bb

Cc

Dd

Ee

Ff

Gg

Hh

Ii

Jj

Kk

Ll

Mm

Nn

Oo

Pp

Qq

Rr

Ss

Tt

Uu

Vv

Ww

Xx

Yy

Zz

W353-440



Imhoff Sedimentation Cone, Glass

- For determining the amount of sediment in sewage or industrial waste
- Graduated up to 40ml and with capacity mark at 1000ml
- Manufactured from borosilicate glass

Catalogue No	Description
W353-440	Imhoff sedimentation cone, glass, 1000ml

Imhoff Sedimentation Cone, Plastic

- Transparent cone, made from tough styrene acrylonitrile
- With moulded graduations. Lower part is graduated to 2ml x 0.1, to 10ml x 0.5, to 40ml x 1, to 100ml x 2 and to 1000ml x 50

Catalogue No	Description
W353-452	Imhoff sedimentation cone, plastic, 1000ml

W353-463



Imhoff Cone Stands

- Acrylic stands for mounting Imhoff Cones
- All stands have a locating recess in the base

Catalogue No	Description
W353-461	Cylindrical stand for 1 cone
W353-463	Rectangular stand for 2 cones
W353-465	Rectangular stand for 3 cones

WATER TESTING SPECIALISTS

Call today to receive your copy of our dedicated
Water Quality and Environmental Testing Catalogue

