



AQUASAFE®

Portable water safety
laboratories



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SPECIALIST MANUFACTURERS OF ENVIRONMENTAL
ANALYSIS AND MONITORING EQUIPMENT



PORTABLE WATER SAFETY LABORATORIES

AQUASAFE®

Aquasafe is a range of portable water testing laboratories that have been designed to make the analysis of drinking water in the field easy. With a choice of 12 different varieties, there is a portable laboratory for any situation, whether you need just a small number of microbiological tests or a full range of physico-chemical testing including heavy metals.

Each kit has been created to ensure ease of use, portability and convenience. The internal storage system makes restocking of consumables simple and stops the problem of reaching the field without enough supplies.

Laboratory quality microbiological testing can be carried out in both the field OR in a fixed site laboratory using the easily removable unique docking station incubator. This is available in two formats; the single chamber, or the independently controlled dual chamber, both of which utilise the unique PetriLok® system to ensure samples are kept safe during transport, even in difficult conditions and terrain.



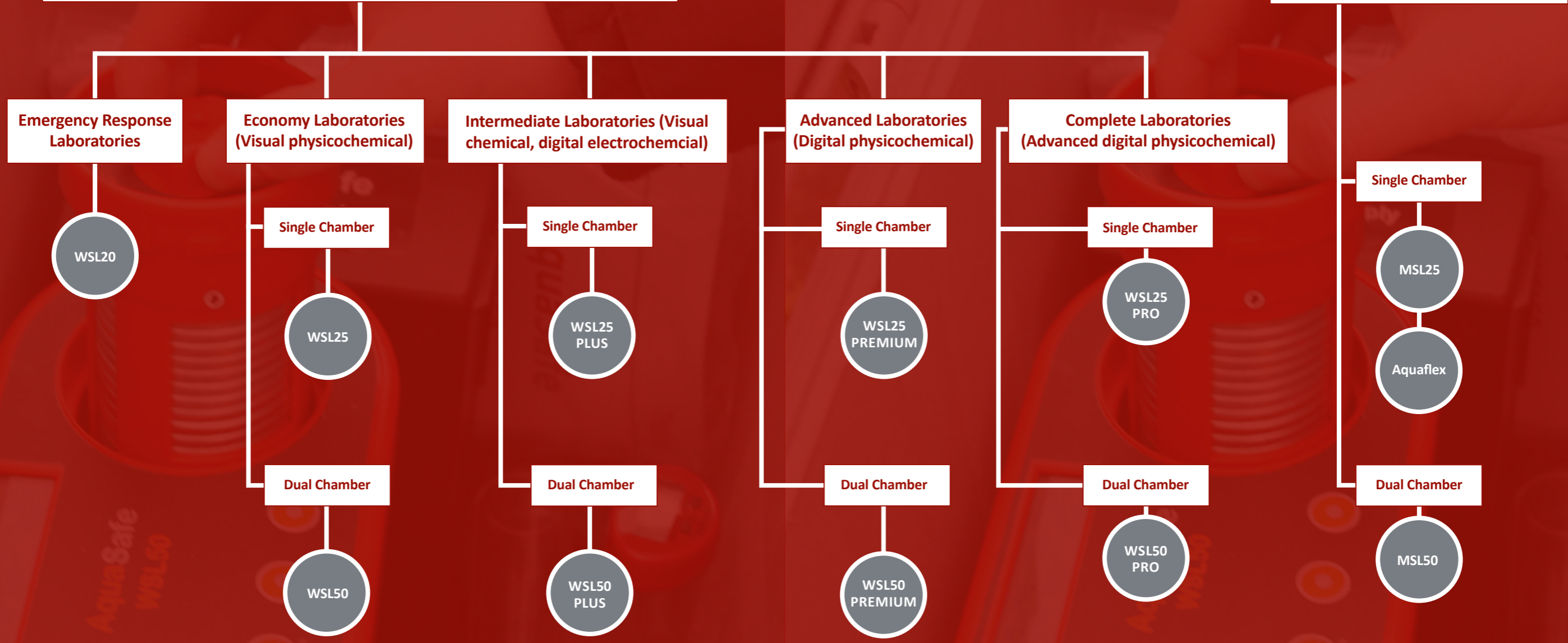


PRODUCT RANGE



MICROBIOLOGICAL AND PHYSICOCHEMICAL

MICROBIOLOGICAL





AQUASAFE® COMPARISON CHART

All our kits below have the **Microbiological** testing capability- all including the same Filtration manifold.

For **Chemical** and **Physical** testing, differences are:

- **Pro** = most advanced kit with digital photometer and digital multiparameter.
- **Premium** = digital photometer and 2 pocket meters (for pH and conductivity).
- **Plus** = block comparator with wheels and 2 pocket meters (for pH and conductivity) + turbidity tube.
- **Ø** = pooltester (pH and Chlorine only) + turbidity tube.

All kits include:

- Portable **IP67** rated waterproof case. All kits are in a **Single case** format.
- In Case **incubator docking station** technology
- PetroLok petridish security system (racking system).
- **Digital incubator control**, with Digital incubation timer.
- Variable incubator temperature (20-50 Degrees Celcius).
- Digital incubator calibration in the field.
- In-case Racking system
- Mains Power Charger, Adaptor for in-car charging.
- Sample collection system included.
- Filtration manifold included.

	MICROBIOLOGICAL		MICROBIOLOGICAL & PHYSICOCHEMICAL ANALYSIS								
			EMERGENCY/ECONOMY		INTERMEDIATE		ADVANCED		COMPLETE LABORATORY		
	MSL		WSL Ø		PLUS		PREMIUM		PRO		
	25 & 50		20	50	25	25	50	25	50	25	50
Number of tests (petri dishes) and incubators.											
Type of Incubator : Single/Dual	Single	Dual	Single	Dual	Single	Single	Dual	Single	Dual	Single	Dual
Number of Petridishes included (for Single Incubator/Dual)	25	50	20	50	25	25	50	25	50	25	50
Independent incubator control (Dual Incubators)		✓		✓			✓		✓		✓
Integrated Lead Acid Battery	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Integrated Lithium Ion Battery	**	**	**	**	**	**	**	**	**	**	**
Method of testing and Equipment offered:											
Visual pH testing (Using "Pooltester" Block)			✓								
Visual chemical testing (Using "Pooltester" Block)			✓								
Visual chemical testing (Using Comparator Wheels)					✓	✓					
Visual turbidity testing (Jackson Tube Method)			✓		✓	✓					
Digital chemical testing (using Photometer)								✓		✓	
Digital turbidity testing (using the above Photometer- 2 in 1)								✓		✓	✓
Digital pH testing (via Pocket meter)					✓	✓		✓			
Conductivity Testing (via Pocket meter)						✓		✓			
Digital pH testing (via multiparameter meter)										✓	
Conductivity Testing (via multiparameter meter) EC, TDS										✓	
Reagents and consumables supplied as standard											
Includes reagent for 300 Coliform tests (Faecal & Total)	✓		✓		✓	✓		✓		✓	
Includes reagent for 300 tests pH			✓								
Includes reagent for 300 tests Free Chlorine			✓		✓	✓		✓		✓	
Includes reagent for 300 tests Total Chlorine			✓		✓	✓		✓		✓	
Includes reagent for 300 tests Ammonia					✓	✓		✓		✓	
Includes reagent for 300 tests Nitrate					✓	✓		✓		✓	
Includes reagent for 300 tests Nitrite					✓	✓		✓		✓	
Includes 300 tests for Arsenic (Rapid Method)						✓		✓			
Includes 300 tests for Arsenic (Visual Method)										✓	
Weight (Kg)	11	20	12	18	12	15	18	16	18	17	20
Dimensions (mm) HxWxD											
Format A = 500x305x457 B = 430x290x280	B	A	B	A	B	B	A	A	A	A	A

* OPTIONAL BACKPACK AVAILABLE ** Lithium Ion Battery available as optional extra cost



AQUASAFE® BENEFITS

DOCKING STATION

The Aquasafe microbiological incubator includes a flexible docking station built into the unit which allows use both within the portable case with its integrated power pack OR on a laboratory bench with the provided mains power cable. This allows for simple removal of the incubator from the case for cleaning, maintenance or use without the need for external connecting wires or separate batteries.



PETRILOK® CARTRIDGE

The PetriLok system brings together the Petri-dish carrier and the incubator lid into one easily handled unit. This allows the user easy access to the samples within the Aquasafe microbiological laboratory without having to reach into the incubator, avoiding the potential for contamination from a user's hands or equipment. A novel spring assembly holds the petri dishes firmly in place avoiding movement in transit and massively reducing the possibility of media spillage and cross contamination.



AQUASAFE STORAGE TRAY

Ensuring that your portable laboratory has all the required consumables for use is critical for efficiency in field testing. Reaching a test site and finding reagents or filters missing is frustrating and wastes valuable time. The Aquasafe storage system keeps all consumables, accessories and reagents together in one place with allocated space inside the portable case. This makes identifying missing or low stocks easy and avoids damage to accessories which can happen when items are loose and unsecured. The tray also allows the accessories to be easily removed from the portable laboratory and placed on the ground without introducing contamination to the contents.



MICRIOLOGICAL LABORATORIES

MSL25

A single chamber microbiological incubator able to process 25 samples at once. Precise controls give a temperature accuracy of 0.1°C at any temperature between 25-50°C reducing the possibilities of false results.

A single lightweight but rugged carry case with internal battery pack allows easy use in the field.



MSL50

This dual chamber version of the MSL25 has all the features of the single incubator option but can run each chamber independently at two separate temperatures allowing for different organisms to be cultured.

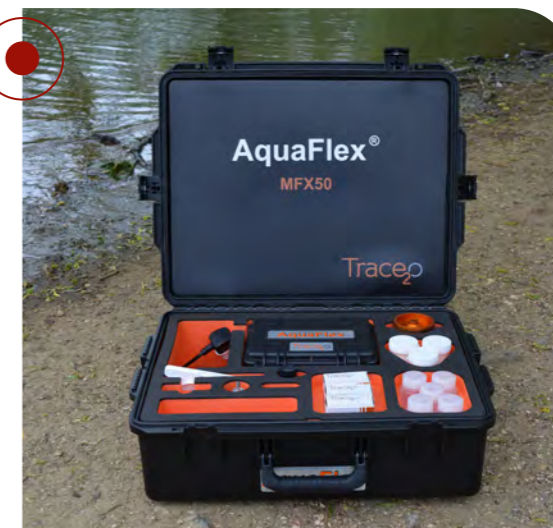
The MSL50 is presented in a tri-handled case with integrated top, side and airline style telescopic handles.



AQUAFLEX®

A single chamber incubator capable of processing 55m Petri dishes (as per the MSL25), 90mm Petri dishes, Nutridisks and Dipslides simultaneously.

This allows for easy culture of a wide range of microorganisms using either broth culture or agar/gel cultures.





ECONOMY LABORATORIES

WSL20

The perfect emergency response kit. A powerful single incubator for 20 samples comes complete with equipment to quickly and visually test for chlorine, pH, temperature and turbidity in drinking water.

The ideal kit for both disaster response and local household survey.



WSL50

As the WSL20, but with dual powerful portable digital incubators giving the user increased capacity OR the ability to incubate at 2 separate temperatures simultaneously, or at different times, in a single carry case with unique Trace2o® docking station technology.

INTERMEDIATE LABORATORIES

WSL25

The single incubator kit that allows for digital measurement of pH while at the same time offering visual turbidity and chlorine measurement alongside microbiological analysis.

This kit includes a logger that can be used to track the thermal profile of the incubator during the incubation cycle.



WSL25 PLUS

The WSL25 Plus offers the benefits of the WSL20 with increased testing capability using a Comparator block with interchangeable wheels.

This gives the user a wider choice of chemical tests (from Aluminium to Zinc), including Arsenic, along with complete digital testing of both pH and conductivity, all in a single, easy to carry, rugged case.



WSL50 PLUS

The dual incubator version of the WSL25 Plus has the same breadth of chemical testing with the added benefit of the Trace2o Dual docking station incubator.

Save time by incubating at any two temperatures between 25°C and 50°C.





ADVANCED/COMPLETE LABORATORIES

WSL25 PREMIUM

The Aquasafe WSL25 Premium gives a fully digital solution to chemical testing with over 40 chemical parameters tested digitally and accurately on the powerful but lightweight photometer.

Including the Trace2o single docking station microbiological incubator, accurate visual Arsenic test method and digital pocket meters for both pH and conductivity this kit is the ideal solution when accurate reproducible results are required in the field.



WSL50 PREMIUM

The larger and more versatile version of the WSL25 Premium has all the benefits of power and flexibility of its little brother, but with the bonus of the Trace2o dual docking station incubator.

A huge 50 microbiological sample capacity makes this kit perfect for higher throughput field work OR for projects that need more than one incubation temperature.

WSL25 PRO

An advanced portable water testing laboratory, the Aquasafe WSL25 Pro offers the combination of a rugged lightweight photometer with a powerful and flexible multiparameter meter capable of pH, EC, DO, ORP and ISE measurement. In addition a digital turbidimeter ensures speed and accurate nephelometry from 0- 1000NTU. Accurate and fast visual Arsenic testing ensures complete testing capabilities. One case ensures a single user can operate the kit, even in the most remote locations.



ADVANCED/COMPLETE LABORATORIES

WSL50 PRO

The heart of the Aquasafe range and our most popular and broadly used portable laboratory, the WSL50 Pro adds a Trace2o dual docking station incubator to the already powerful WSL25 capabilities.

Presented in an easy to carry, tri-handle, rugged, wheeled, perfectly balanced waterproof case with pull up handle to reduce fatigue.



The Aquasafe Premium's and Pro's all include the HydroTest® HT1000 Multiparameter Photometer. The HT1000 is a compact but powerful handheld photometer which is lightweight and offers an easy colorimetric solution at the touch of a button using simple tablet reagents.

For more information on the Aquasafe range please contact sales@trace2o.com





PRODUCTS

DESCRIPTION	PACK SIZE	PART NUMBER
Aquasafe MSL25 Single chamber microbiological laboratory	Unit	MSL25
Aquasafe MSL50 Dual chamber microbiological laboratory	Unit	MSL50
Aquasafe WSL20 Single chamber emergency response laboratory	Unit	WSL20
Aquasafe WSL25 Single chamber economy laboratory	Unit	WSL25
Aquasafe WSL50 Dual chamber economy laboratory	Unit	WSL50
Aquasafe WSL25-Plus Single chamber intermediate laboratory	Unit	WSL25PLUS
Aquasafe WSL50-Plus Dual chamber intermediate laboratory	Unit	WSL50PLUS
Aquasafe WSL25-Premium Single chamber advanced laboratory	Unit	WSL25PREMIUM
Aquasafe WSL50-Premium Dual chamber advanced laboratory	Unit	WSL50PREMIUM
Aquasafe WSL25-Pro Single chamber advanced laboratory	Unit	WSL25PRO
Aquasafe WSL50-Pro Dual chamber advanced laboratory	Unit	WSL50PRO

REPLACEMENT CONSUMABLES AND REAGENTS

Microbiological consumables pack (membranes, pads and media)	300 tests	ASMIC300W
Membrane and Pad combipack	300 tests	ASPAME300
Membrane Lauryl Sulfate Broth (MLSB) ready to mix sachets	300 tests	ASBRO300W
Ammonia Reagent (tablets) 0.02–1mg/l	300 tests	HTNH3100/3
Arsenic Test Pack (Mercuric Bromide method) 5-300ppb	300 tests	ASAS300E
Arsenic Test Pack (Mercuric Bromide method) 1–100ppb	100 tests	ASAS100
Chlorine Combipack (Residual DPD1 and Combined DPD3) 0.01-6mg/L	300 tests	HTCL2100/3
Nitrate Reagent (tablets and powder) 0.08-1mg/L	300 tests	HTNO3100/3
Nitrite Reagent (tablets) 0.01-0.5mg/L	300 tests	HTNO2100/3
pH Tablet pack (Phenol Red) 6.5 – 8.4	300 tests	HTPHM100/3
Combined consumables pack for Pb, Cd, Cu and Zn	200 tests	HMCPC50/4
Combined consumables pack for Hg	200 tests	HMHGC50/4
Combined consumables pack for As	200 tests	HMASC50/4
Calibration buffers for pH (set of 3 – 4.01/7.00/10.01)	60ml Each	HCPHC60
Calibration buffers for EC (set of 3 – 84µS/1413µS/12880µS)	60ml Each	HCECC60

