# AQUASAFE®
# WSL50 & 25 PLUS

## Intermediate portable drinking water laboratories

The Aquasafe® WSL50 Plus is an advanced portable water testing laboratory offering physicochemical and microbiological testing.

The WSL50 Plus is an easy to use portable kit, giving a range of accurate results in a single, easy to transport, hard wearing, waterproof and buoyant case. Contains a powerful digital dual chamber microbiological incubator that docks simply into the case to allow use in both the field or the laboratory. A rugged photometer with testing capabilities for over 40 parameters is also included in the WSL50 Plus. All consumables and accessories are protected by a specifically engineered rack system mounted in the case.

The Aquasafe® WSL25 Plus is a more compact, simple kit which stil offers an excellent range of microbiological and physicochemical tests using familiar field testing methods. Contains a powerful single chamber microbiological incubator, flexible comparator block with wheels and easy to use pocket pH and EC meters.

# BENEFITS

◎ **Accurate digital temperature control to 0.1°C ensures optimal bacterial growth**

◎ **Process samples while transporting and carrying the portable laboratory with the upright incubator format. Samples remain in the correct orientation even when being carried**

◎ **The WSL25 Plus's small lightweight case gives an easy portable solution, even for just one user**

◎ **Up to 24 hour countdown timer that pauses in the event of power failure, ensuring no false negative microbiological results**

◎ **Total control over incubation temperature. Other cultures are possible using different selective media**

◎ **PetriLok® petridish carriage system stops incubator contamination from the user's hands and ensures stability of dishes in transit, avoiding media spillage**

◎ **Powerful single or double incubator docking station gives flexibility to switch between in-case or on bench use**

◎ **Save time with fast and easy calibration in the field**

◎ **Single waterproof (IP68) cases makes it easy for one user to carry and floats to avoid loss if dropped in water**

◎ **Instant physico-chemical results with the easy to use comparator with colour wheels plus pH and EC pocket meters saves time and money in the field**

◎ **Never run out of reagents again. In-built removable accessories tray makes identifying consumable and reagent stock levels simple and avoids the possibility of damage or breakage during transport**

◎ **The high performance battery pack built into the case is hidden from potential theft behind a locked hinged panel while being easily accessible using the simple tool provided**

◎ **Save time and money in the laboratory. Ideal as either the primary in-field testing method OR as a pre-screening tool to reduce the number of samples centrally tested**

# IN YOUR KIT

| IN YOUR KIT | WSL50 PLUS | QTY | WSL25 PLUS | QTY |
|---|---|---|---|---|
| Single silver waterproof wheeled case with multiple handle options and incubator docking station | ✓ | 1 | | |
| Single black lightweight IP68 waterproof case with top handle, incubator docking station and shoulder strap | | | ✓ | 1 |
| AquaSafe double incubator | ✓ | 1 | | |
| AquaSafe Single incubator | | | ✓ | 1 |
| PetriLock cassette with cap | ✓ | 2 | ✓ | 1 |
| Aluminium petri dishes | ✓ | 50 | ✓ | 25 |
| Membrane Filtration Unit | ✓ | 1 | ✓ | 1 |
| Sterilised water for MSLB preparation | ✓ | 6 | ✓ | 6 |
| Sample collection bottle with dechlorination tablets | ✓ | 4 | ✓ | 4 |
| Sterile membrane filters (pk100) | ✓ | 3 | ✓ | 3 |
| Sterile absorbent pads (pk100) | ✓ | 3 | ✓ | 3 |
| Membrane Lauryl sulfate broth sachet | ✓ | 6 | ✓ | 6 |
| HydroLite HL101 pH meter | ✓ | 1 | ✓ | 1 |
| HydroLite HL102 EC meter | ✓ | 1 | ✓ | 1 |
| pH 4.01 buffer solution | ✓ | 1 | ✓ | 1 |
| pH 7.00 buffer solution | ✓ | 1 | ✓ | 1 |
| EC 1413 uS calibration solution | ✓ | 1 | ✓ | 1 |
| Nitrate reagents (pk100) | ✓ | 3 | ✓ | 3 |
| Nitrate test tube | ✓ | 1 | ✓ | 1 |
| Test tube brush | ✓ | 1 | ✓ | 1 |
| Chlorine free/total reagents (pk100) | ✓ | 3 | ✓ | 3 |
| Ammonia reagets (pk100) | ✓ | 3 | ✓ | 3 |
| Nitrite reagents (pk100) | ✓ | 3 | ✓ | 3 |
| Digital thermometer | ✓ | 1 | ✓ | 1 |
| Comparator | ✓ | 1 | ✓ | 1 |
| Comparator cells | ✓ | 4 | ✓ | 4 |
| Comparator Chlorine disc | ✓ | 1 | ✓ | 1 |
| Comparator Nitrite disc | ✓ | 1 | ✓ | 1 |
| Comparator Ammonia disc | ✓ | 1 | ✓ | 1 |
| Comparator Nitrate disc | ✓ | 1 | ✓ | 1 |
| Arsenic Test Kit (300 tests) | ✓ | 1 | ✓ | 1 |
| Turbidity Tube | ✓ | 1 | ✓ | 1 |
| Multi-purpose screwdriver | ✓ | 1 | ✓ | 1 |
| Pad dispenser | ✓ | 1 | ✓ | 1 |
| Eye Glass | ✓ | 1 | ✓ | 1 |
| Forceps | ✓ | 1 | ✓ | 1 |
| 30ml dropper bottle for methanol | ✓ | 1 | ✓ | 1 |
| 5m sterile syringe | ✓ | 1 | ✓ | 1 |
| 5m sampling cable with carabiner | ✓ | 1 | ✓ | 1 |
| Calibration block | ✓ | 1 | ✓ | 1 |
| Silicone grease | ✓ | 1 | ✓ | 1 |
| Accessory Boxes | ✓ | 3 | | |
| Sterilisable work surface | ✓ | 1 | | |
| Vacuum pump | ✓ | 1 | ✓ | 1 |
| Vaccum tubing | ✓ | 1 | ✓ | 1 |
| 12V 4A lead-acid charger/power supply | ✓ | 1 | ✓ | 1 |
| Vehicle charging cable | ✓ | 1 | ✓ | 1 |
| IEC mains cable - UK type G | ✓ | 1 | ✓ | 1 |
| UK to EU adaptor | ✓ | 1 | ✓ | 1 |

| DESCRIPTION | PACK SIZE | PART NUMBER |
|---|---|---|
| Aquasafe® WSL50 Plus | Unit | WSL50PLUS |
| Aquasafe® WSL25 Plus | Unit | WSL25PLUS |

# TECHNICAL SPECIFICATIONS

| | WSL50 PLUS | WSL25 PLUS |
|---|---|---|
| **Dimensions (mm)** | ◎ 500 x 305 x 457 | ◎ 430 x 290 x 280 |
| **Weight** | ◎ 20kg | ◎ 12kg |
| **Approvals** | ◎ CE Conformity, IP68 | |
| **Country of origin** | ◎ United Kingdom | |
| **Digital incubator test programs** | ◎ 37°C | |
| | ◎ 44°C | |
| | ◎ User defined (20°C to 50°C) | |
| | ◎ Calibration | |
| **Timer** | ◎ Adjustable 24 hour countdown timer | |
| **No. incubation chambers** | ◎ 2 | ◎ 1 |
| **Maximum petridish capacity** | ◎ 50 (25 per incubator chamber) | ◎ 25 |
| **Incubator temperature range** | ◎ 20°C to 50°C | |
| **Incubator temperature resolution** | ◎ 0.1°C | |
| **Incubator temperature stability** | ◎ +/- 0.1°C | |
| **Recommended storage temperature** | ◎ 0°C to 70°C | |
| **Optimum operating temperature** | ◎ 0°C to 40°C | |
| **Under interface** | ◎ LCD Display | |
| | ◎ Tactile soft keys | |
| | ◎ Audible alerts | |
| **Power supply** | ◎ 12-24 V DC | |
| | ◎ Removeable lead acid power pack | |
| | ◎ (Rechargeable) | |
| **Power consumption** | ◎ 37°C Cycle at 20°C ambient | ◎ 37°C Cycle at 20°C ambient |
| | ◎ Max power 16.1W | ◎ Max power 8.1W |
| | ◎ Average power 6W | ◎ Average power 3W |
| **Test parameters included (with reagent)** | ◎ Ammonia | |
| | ◎ Arsenic (total) | |
| | ◎ Chlorine (residual) | |
| | ◎ Chlorine (Combined) | |
| | ◎ Coliform (TTC or TC) | |
| | ◎ Conductivity | |
| | ◎ Nitrate | |
| | ◎ Nitrite | |
| | ◎ pH | |
| | ◎ Temperature | |
| | ◎ Turbidity | |
| **Total test parameters possible (with additional reagent or accessories)** | ◎ Over 50 | |
| **Photometric testing** | ◎ Via sturdy comparator block with colour wheels | |
| **Manufacturer's warranty** | ◎ Standard 1 year from purchase | |