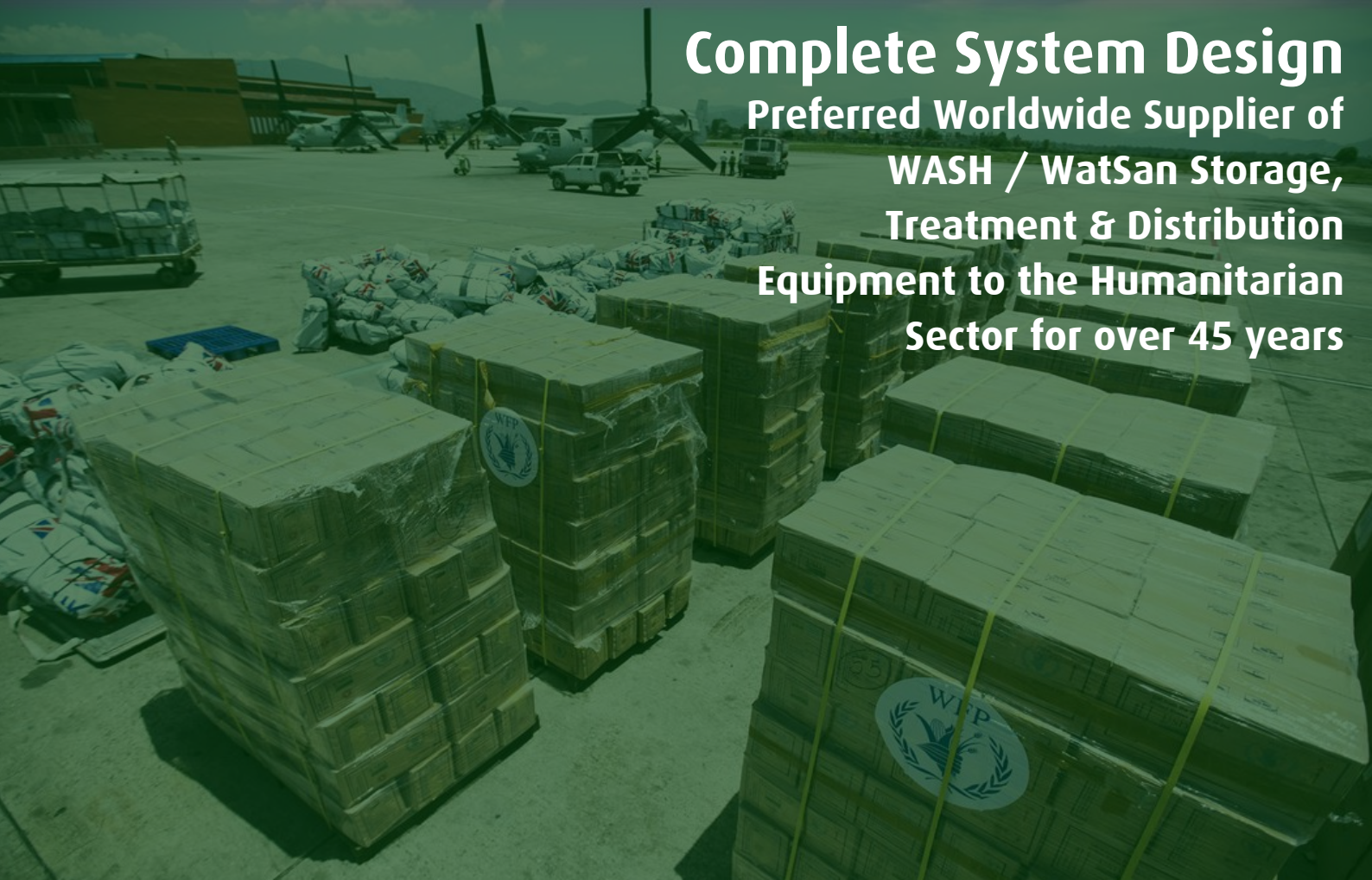


Butyl Group



Water, Sanitation & Hygiene Solutions



Complete System Design
Preferred Worldwide Supplier of
WASH / WatSan Storage,
Treatment & Distribution
Equipment to the Humanitarian
Sector for over 45 years





Worldwide Logistics
Smart, efficient supply
chain management takes
care of your order from
placement to completion



ISO 9001
Quality Management System

Page 4:	Introduction Our expertise at work for you Flexible solutions for your needs
Page 5 - 6:	Case Study Clean Water Supply System for Emergency Health Unit
Page 7 - 8:	Water & Sanitation <ul style="list-style-type: none">• Emergency Response Modules (ERU)
Page 9 - 13:	Water <ul style="list-style-type: none">• Steel Water Storage Tanks• Water Bladders / Pillow Tanks• Onion Tanks• Quick Tanks• Pumps & Generators• Water Purification & Testing Kits• Compartment Bag Test (CBT Kit)• Water Treatment Units
Page 14- 15:	Case Study Field Lab for Faecal Sludge Treatment Plant Monitoring
Page 16 - 18:	Sanitation <ul style="list-style-type: none">• Squatting Slabs• Hygiene Promotion - Box A• Flexigester Anaerobic Digestion System• Vector Control• Pipes, Fittings & Tapstands
Page 19 - 21:	Hygiene (Public Health) New Product - A Year in a Box <ul style="list-style-type: none">• Buty Aquatabs Tank System (BATS)• Family Filter Kit• Oral Rehydration Kit (ORS)
Page 22:	Partners & Distribution Hubs
Page 23:	Organisations We Work With
Page 24:	Our Facilities
Page 25 - 27:	Our Equipment at Work

Product Development



Water & Sanitation Support Solutions

- Rigid & Flexible Water Storage Tanks
- Distribution Tapstands & Associated Pipework
- Pumps & Generator Sets
- Water Treatment Tablets, Sachets & Granules
- Water Quality Testing Kits, Consumables & Spares
- Waste Management / Sewage Isolation
- Latrines & Sanitation Equipment
- Specialist Hygiene Promotion
- Public & Community Health Solutions
- Vector Control & Safety Wear / PPE
- Tool Kits

Our expertise at work for you

Connecting your requirements to the equipment you need

The team at Butyl Group have been working with Global Aid Agencies, International Relief Agencies, National Governments and Non Governmental Organisations around the world since 1965, responding to emergency / humanitarian aid requirements and as part of planned infrastructure development projects. Our equipment is tried and trusted and will be found in refugee camps and disaster zones throughout the world. Our ongoing commitment to research and development ensures our products continuously measure up to the demands of climate and conflict driven disasters. We're proud to say that this is the reason Butyl Group remains at the forefront of an ever changing humanitarian sector.

Flexible solutions for your needs

Our design engineers provide a total end to end solution

We manufacture a comprehensive range of water supply, storage, treatment and distribution systems as well as custom designed kits for emergency aid use.

Our experienced Technicians and Engineers welcome the opportunity to work directly with your organization; we offer complete design, supply, installation and implementation of new systems, standalone products and associated equipment. Our accumulated experience, depth of product knowledge and expertise are always available to you. Wherever your site, whatever your water & sanitation needs — We are confident that we have a solution for you.

Recent Projects:

- Total WASH solution for 62 bed field hospital to combat the Ebola crisis in Sierra Leone, 2014
- Anaerobic Digestion Flexigester® sponsored by IFRC & RCS supplied to children's village to help manage organic waste in Malawi, 2014
- Complete drinking water reservoir refurbishment project completed in St. Helena, mid Atlantic, 2015 & 2016



Clean Water Supply for Emergency Health Unit

deployed by Save the Children International

We were contacted by an international camp equipment supplier to assist them with the design and supply of a clean water system as part of the EHU quick response hospital for Save the Children International.

The Requirement:

- Up to 20 in-patients and 60 staff on site
- 250 Litres of water per patient, per day
- 15,000 Litres total water usage (patients and staff)
- Minimum 3 days treated water storage
- 45,000 Litres of water storage plus 25,000 litres of raw water

Our Solution:

Our Engineers analysed the requirements to optimise the quantity and type of all the components for the water system to meet the required performance.

Collection: Self priming centrifugal pumps with diesel engines.

Storage: Flexible Onion Tanks for raw water and fully enclosed Bladder Tanks for treated water. All contact materials to be food grade.

Treatment: Three stage system utilising, coagulation / flocculation, filtration and chlorination.

Distribution: Pressurised system through MDPE pipework suitable for peak flow volumes, feeding to Wards, Surgical Theatre, Fire Hose and Tapstands.

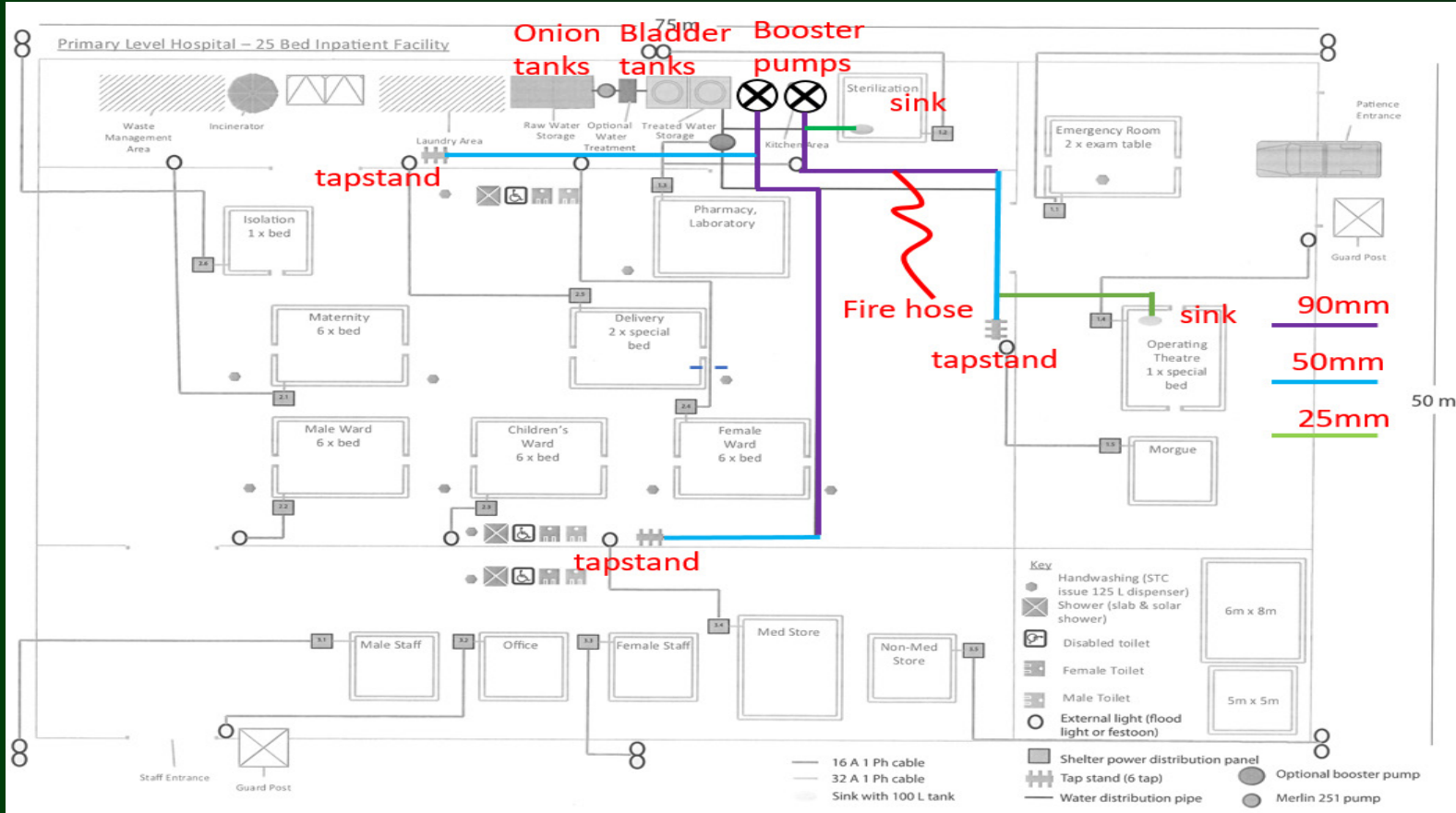
Clean Water and Handwashing System

The system was designed by our Engineers with the storage, pumping, treatment and distribution components all specified so that the complete kit could be assembled from the transport vehicles with all the adaptors, connectors and tools configured to supply a complete treatment unit with no additional equipment required. Sufficient components were built into the kit to enable a wide variety of arrangements on the ground. For example: Additional accessories were supplied so that the 6,000 litre water bladder tank could be fitted to a flat bed truck and used as a transport tank to supply remote locations if required.

A proportion of spare parts and redundancy was also included in the basic kit as well as specialised repair kits to deal with any damage that might occur in the field without the need to shut down services.

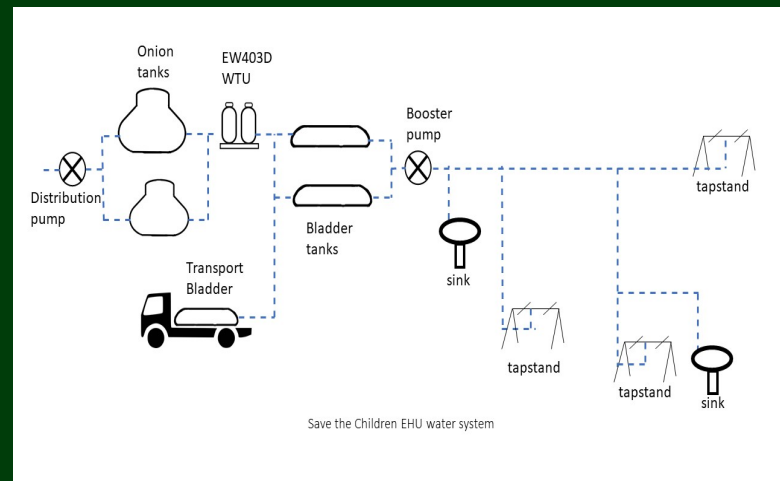
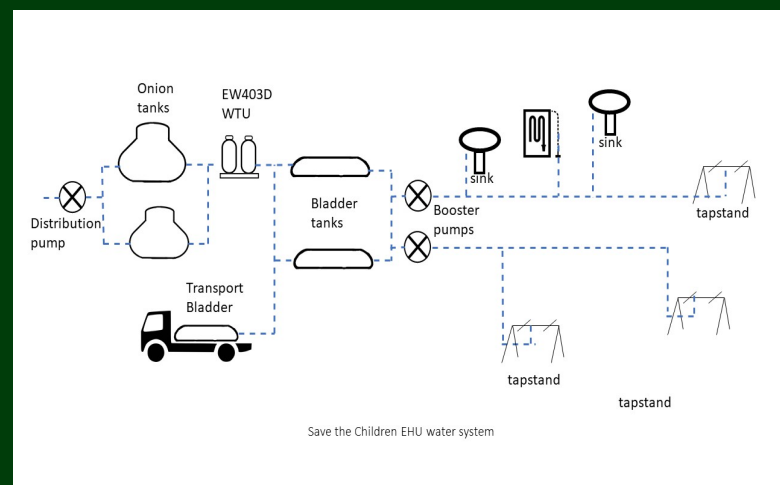
As a part of the service provided by Butyl Group, a training programme was also designed and implemented for the WASH technicians and logistics managers.

Design, manufacturing, support and training all delivered by our in-house teams.



Above: Equipment Training conducted by our Engineering Team.

Top & Bottom Right: Example layouts for water system equipment



Water & Sanitation

Emergency Response Units

There are three Emergency Response Modules available tailored to water volume and quality required, and to beneficiary numbers and locations. They are standardised modules of equipment, that are fully self-sufficient for one month but can be deployed for up to four months. They provide essential services where local infrastructure is damaged, temporarily out of use or insufficient to cope with increased demand.

Clear, safe drinking water and hygiene training are two key aspects of the purpose of the Modules. World Health Organisation Drinking Water Guidelines and Sphere standards guide the modules' work.

The Modules continue to be used extensively by the International Federation of Red Cross & Red Crescent Societies in conflict and disaster zones around the world.

WatSan Module 15

Provides treatment and distribution of water up to 225,000 litres a day for a population of 15,000 people, with a storage capacity of a maximum of 200,000 litres per day. The M15 Module can also provide basic sanitation and hygiene promotion for up to 5,000 people. The module is designed for response to scattered populations. It is flexible in the sense that it can deploy and be set up as several stand-alone units for up to five different locations.

The M15 Module provides integrated distribution and trucking capacity for the transport of treated water to dispersed populations, with a capacity of up to 75,000 litres per day and the option to set up nine different storage and distribution points. Approximate weight, volume of the entire module: 20 MT, 110m³

WatSan Module 40

Provides treatment and distribution of water for larger populations. The M40 Module can treat up to 600,000 litres of water per day for a population of up to 40,000 people. As with the M15 module, the M40 has an integrated distribution and trucking capacity for the transport of treated water to dispersed populations with a capacity of up to 75,000 litres a day and the possibility to set up nine different storage and distribution points.

Approximate weight, volume of the entire module: 25 MT, 110m³

WatSan Mass Sanitation Module 20

Provides basic sanitation facilities (latrines, vector control & solid waste disposal) for up to 20,000 beneficiaries and facilitates the initiation of hygiene promotion programmes. Hygiene promotion is central as a strategy for promoting effective development and use of facilities and for maximising health benefits.

Hygiene promotion activities include assessment, community mobilisation, hygiene information, education and communication targeted at promoting hygiene practices at the community and household levels, in addition to operation and maintenance of hygiene facilities.

Community participation in the immediate aftermath of a disaster ensures sustainable and incremental improvements in environmental health.

Approximate weight, volume of the entire module: 14 MT, 90m³

Images courtesy IFRC.org





O2 Range Steel Water Storage Tanks

Specially suited where large capacity and depth are required, our galvanised steel demountable storage tanks, commonly known as 'Oxfam' tanks, are used extensively in emergency and disaster relief areas. They are widely used for flocculation and chlorinating water treatment, where good mixing and settlement form part of the successful application. The depth of the tanks and optional plinth kits allow for positive pressure head for gravity fed distribution.

Our new range of O2 tanks are an even more cost effective solution. Our engineers have designed the new O2 tank kits with logistics in mind, making them easier to containerise, store and transport. We have effectively doubled the amount of water storage capacity that can be loaded into standard shipping containers, thereby reducing the carbon footprint quite substantially. Our newly developed Low Profile Steel Roof satisfies customer requirements for a medium duty roof that's more durable than the standard PVC roof cover yet lighter, and therefore easier to transport than the standard steel roof option.

Tank Body: Corrugated galvanised steel panels, punched and curved to suit the tank size. Galvanised round headed bolts with nuts and washers. Circular capping is provided for top edge of tank for added protection for the tank liner.

Tank Lining: Fully welded watertight bag sized to suit the tank. Linings can be manufactured in a range of materials and thicknesses to suit the tank application, WRAS approved linings provided as standard.

Fittings: 3" BSP(M) through tank outlets with optional valves.

Capacity: 1,960 litres to 1,212,000 litres

Packing: Tank kits are supplied packed in ISPM15 heat treated plywood cases and pallets suitable for export.

Kit Options: PVC / Steel roof, Low profile steel roof, pumps, valves, distribution pipework & tapstands.

Water Storage Bladders / Pillow Tanks

Our range of flexible pillow tanks are available as a standalone item or in kit form, providing an ideal storage and distribution system that can be deployed rapidly and easily in any climate on clear, flat terrain. They are specifically designed to withstand harsh environments and are offered in both medium and heavy duty versions. All of our Bladder / Pillow tanks are manufactured with reinforced corner mouldings and integral tie-down holes, and are supplied with instructions, repair kit and all necessary tools required for simple installation.

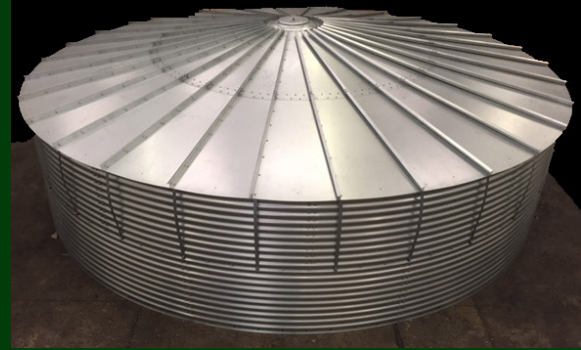
Material: Nylon reinforced food grade PVC for water storage, with temperature resistance between -30C and +70C

Standard Outlets: 2" BSP outlets and 4" top cap with integral pressure relief valve in either reinforced PP or Anodised Aluminium as required. Additional outlets sized up to 6" can be provided to suit the application.

Capacity: 1,000 litres to 150,000 litres

Packing: All units are supplied packed in ISPM15 heat treated plywood cases suitable for export.

Kit Options: Groundsheet, pipework, pumps, valves, distribution tapstands.



Onion Tanks

Self supporting Onion Tanks are suitable where an instant use open top tank is required. They are extremely easy to clean, making them suitable for raw water storage and in-tank flocculation. They require no special tools and need only a clear, firm area of flat ground for effective installation.

The materials used are selected for their suitability for harsh environments which makes our Onion Tanks suitable for all climates with temperatures ranging from -30C to +70C. Each tank is supplied with a groundsheet, roof cover with integral foam flotation block, instructions, repair kit and all necessary tools required for simple installation.

<i>Material:</i>	Nylon reinforced food grade PVC for water storage.
<i>Standard Outlets:</i>	2 x 3" BSP (M) Anodised Aluminium outlets and 3" BSP (F) Brass gate valves
<i>Capacity:</i>	3,000 litres to 30,000 litres
<i>Packing:</i>	All units are supplied packed in ISPM15 heat treated plywood cases suitable for export.
<i>Kit Options:</i>	Pipework, pumps, alternative valves, distribution tapstands.

- **Suitable for ALL climates**
- **Erection time from 2 minutes for 1 person**
- **Special sizes and outlet configurations made to order**

Quick Tanks

Designed for quick and simple deployment, with the robust construction needed to withstand heavy, long term use. Our Quick Tanks are ideally suited for situations where instant water storage is required.

All of our Quick tanks are supplied in a protective valise with groundsheet, instructions, repair kit and all necessary tools required for simple installation.

<i>Material:</i>	Nylon reinforced food grade PVC for water storage, with temperature resistance between -30C and +70C
<i>Frame:</i>	32mm diameter galvanised steel water pipe with cast aluminium fittings.
<i>Standard Outlets:</i>	2" BSP Anodised Aluminium
<i>Capacity:</i>	3,000 litres to 40,000 litres
<i>Packing:</i>	All units are supplied packed in ISPM15 heat treated plywood cases suitable for export.
<i>Kit Options:</i>	Pumps, valves, distribution pipework & tapstands.



Pump Range & Generator Sets

Our range of water pumps, fuel pumps and generator sets have been developed over the last 20 years with the rigors of operation in remote areas in mind. They are rugged and reliable, have a wide range of solids handling capabilities, and are typically supplied with spares and tools for 1,000 hours minimum use.

Generator sets are offered on a case by case basis from 1kVA to 100kVA as requirements dictate. We offer Diesel, petrol or electric powered Generator Sets and Pumps depending on client requirements. An extensive range of spares and accessories are always available from stock.

<i>Solids Handling:</i>	The pump range offers 3mm to 72mm solids handling
<i>Pump Flow Rate:</i>	340 to 10,000 litres / minute
<i>Max. Head:</i>	17 to 70 meters
<i>Engine Start:</i>	Recoil or Electric
<i>Options:</i>	Site trolleys / trailers, hose kits, pump & engine spares, quick couplings

Our range of self priming diaphragm sludge pumps offer cast aluminium construction for portability and durability, solids handling up to 60mm and a choice between petrol, diesel or electric driven engines. Flow rates range between 113 and 550 litres per minute with a maximum head (Pelican DLO100) of 10m.

All of our sludge pumps are suitable for pumping mud, sludge, sewage and other liquids that flow. We can offer complete pump kits to suit your requirements or individual items as your project requires.

A full complement of spares and accessories are always available, including pump and engine spares kits, hose kits, suction lances for pit latrines, quick couplings, trolleys and trailers.

Water Purification & Testing

Butyl Group stock a range of water disinfection and flocculation chemicals including NaDCC tablets (Aquatabs), flocculation and disinfection sachets and tablets (P&G Purifier of Water) and for large systems, flocculation and pH adjustment chemicals such as aluminium sulphate and lime plus large volume water disinfection (NaDCC Granules).

Our water purification tablets and granules can treat water volumes ranging from 1 litre to several thousand litres in one dose.

We offer an extensive range of water testing equipment for both raw and treated water. All kits cater for the 6 basic parameters of water quality (pH, Free Chlorine, Total Chlorine, Turbidity, Microbial Quality & Temperature) set by the World Health Organisation and recognized as the global standard.

Lightweight and portable, the kits are able to test for up to 6 days without electricity.

The kits can be upgraded to expand testing parameters to cater for specific needs, geographical region or local legislation.



Aquasafe® Range: Portable Water Safety Laboratories

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 15 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 completely eradicates the problem of reaching the field without enough supplies.

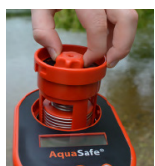
Laboratory quality microbiological testing can be carried out in both the field OR in a fixed site laboratory using the easily removable unique docking station incubator. This is available in two formats; the single chamber, or the independently controlled dual chamber, both of which utilise the unique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

All kits include:

- Portable IP67 rated waterproof case. All kits are in a Single case format.
- In Case incubator docking station technology.
- PetriLok® petridish security system (racking system).
- Digital incubator control, with Digital incubation timer.
- Variable incubator temperature 20-50C.
- 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.

Benefits of the Aquasafe® Range

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.



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 & massively reducing the possibility of media spillage / cross contamination.

Ensuring your portable laboratory has all the required consumables 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 & avoids damage to accessories which can happen when items are loose and unsecured. The tray allows the accessories to be easily removed from the portable laboratory and placed on the ground without introducing contamination to the contents.



Aquasafe Laboratory (WSLPRO)



- Available in 25 or 50 samples
- Dual or Single Incubator
- HT1000 with up to 40 chemical parameters
- Digital Turbidimeter
- HC1000: pH, EC, DO, ORP and additional ISE's

Aquasafe Laboratory (WSLPREMIUM)



- Available in 25 or 50 samples
- Includes Dual or Single Incubator
- HT1000 with up to 40 chemical parameters
- Pocket meters for pH and EC with calibration solutions

Aquasafe Laboratory (WSLPLUS)



- Available in 25 or 50 samples
- Dual or Single Incubator
- Turbidity tube
- Choice of chemical tests (Al-Zn) using comparator block
- Arsenic
- Digital pH, digital EC

Aquasafe Laboratory (WSL)



- Available in 25 or 50 samples
- Includes Single Incubator
- Turbidity tube
- Tests: pH, Temperature, Chlorine and Turbidity

Aquasafe Laboratory (WSLMSL)



- Available in 25 or 50 samples
- Includes Single Incubator
- Lightweight with shoulder strap

Tablet Size	Water Volume	Box Quantity
8.5mg purifies	1 litre	50,000 tablets
17mg purifies	2 litres	50,000 tablets
33mg purifies	4 to 5 litres	10,000 tablets
67mg purifies	8 to 10 litres	16,000 tablets
167mg purifies	20 to 25 litres	14,000 tablets
1.67g purifies	200 litres	6 x 200 tablets
8.68g purifies	1,000 to 1,250 litres	6 x 60 tablets
1kg Aquagranules purifies	110,000 litres	5kg tubs
Each 4g P & G Purifier of Water sachet purifies 10 litres of water		

Compartment Bag Test (CBT)

Simultaneously detects or quantifies *E.Coli* and Total Coliforms in 100ml Water Samples

- Supplied in a compact, lightweight shoulder bag with several compartments for storing samples, notes, gloves etc.
- Simple testing methods that are easy to use with little training
- All consumables included & test results are easy to interpret
- No electricity, labs, cold chain or expensive equipment required
- Ambient temperature incubation at 25C and above for test results in 24-48 hours
- Works at variable temperatures, constant temperature control not required
- 2 Year shelf life for consumables

2 Kits are available. The PA Kit Light offers simple yes/no test results, and the MPN Kit Pro provides Most Probable Number test results.

An optional accessories kit is also available that includes:

- 2 Pairs latex gloves*
- A5 dry wipe board for test notes*
- Laboratory safety glasses*
- Water Purifying Tablets*

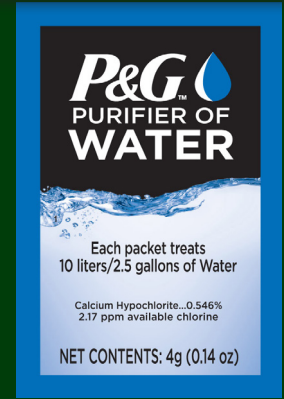
Water Treatment Units

Our range of Water Treatment Units offer clean, safe drinking water from any fresh water source. Our models are suitable for use in a variety of emergency environments from smaller field or staff hospitals and at small community / village level to refugee or IDP camps on a massive scale.

Most kits can be upscaled or adapted to suit almost any environment and all units are optimised for size and weight, making them easy to transport and quick to deploy.

Our most economic kit, producing around 1,000 litres of safe water every hour comprises a series of filters for treatment stages and is supplied with all necessary hoses as well as an electric pump. It is delivered in three rugged aluminium cases and can be carried on airliners as checked in baggage.

Our larger units can produce up to 15,000 litres per hour and are ideal for any situation where an easily deployed mobile system is required for large volumes of water. Most kits are supplied with consumables for three months use (excluding pump fuel).





Field Lab for Faecal Sludge Treatment Plant Monitoring (FSFL)

Over the past three years Butyl Group have been the commercial partner in a team that has designed and manufactured a laboratory that could be deployed to any remote location such as refugee / displaced persons camps. Once there, it would be able to monitor faecal sludge and a waste water treatment plant that has been set up to deal with it.

The project partnership was composed of: University of Natural Resources and the University of Life Sciences in Vienna (Boku), the Austrian Red Cross, Waste in the Netherlands and Butyl Group.



The design criteria are:

- Appropriateness
 - Applicability
 - Affordability
 - Mobility
- Comparable results to a standard laboratory
 - Must work in the field
 - Cheaper than standard solutions
 - Must fit in a Toyota Landcruiser

In the first 18 months of the project the team designed and built a laboratory based on an extensive literature review input from experts. A modular approach was adopted so that any part of the laboratory could be deployed where appropriate. This prototype was tested in a laboratory and then deployed to Malawi for field trials. In Malawi there were a good variety of resources for faecal sludge that the lab could be tested on and an available base in Blantyre.

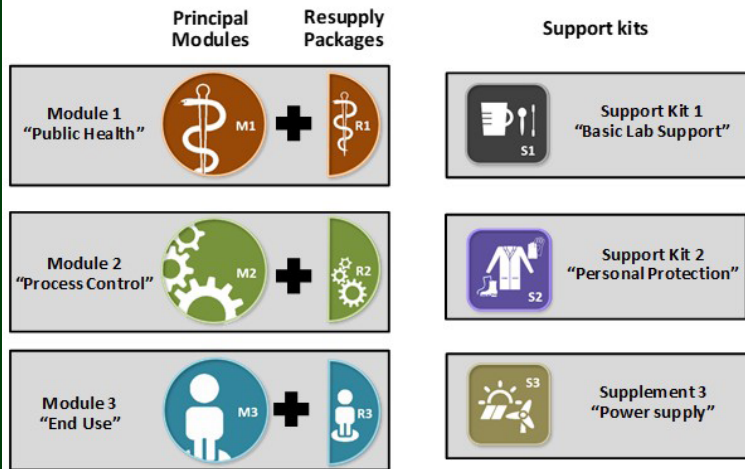


Field Training School FSFL

Results of the trial were very good, proving that the concept was practicable. A follow-up project was then launched to make improvements to the design and to develop a training course for laboratory technicians who would be using the kit. The first field school for the FSFL operated for 2 weeks in Kampala, Uganda. Twenty six technicians graduated from the course to be available for future deployments of the laboratory.

In 2019 a full set of the FSFL kit was deployed to Cox's Bazaar in Bangladesh as part of the response to the Rohingya migration emergency. The laboratory was set up and went straight into operation to support waste management projects in the refugee areas. The laboratory is one of only two in the region monitoring treatment plants and is currently still in operation.

The Faecal Sludge Field Laboratory continues to be upgraded and developed as new tools become available and experience of current labs in the field is documented. The field lab is available from Butyl Group as a complete kit or as separate modules to Humanitarian organisations, Social enterprises, development agencies and utility operators.



Lab Modules

Must fit in a Toyota Landcruiser



Right: Field Training

Below: Ugandan Field School Graduation



Malawi Field Trials



Squatting Plates / Slabs and Moulds

Our squatting slabs and plates fit neatly into all of our latrine units and are available in 2 sizes. The durable material offers a smooth, easily cleaned surface resistant to most commonly known chemicals including urine and faeces. Their solid construction makes them completely vermin and termite proof. They are designed with fixing holes at each corner to allow for privacy screening / shelter sheeting where our Latrine cubicles are not in use.

The larger squatting plate features an optional pour flush water bowl which can be mounted beneath the plate by means of a click system. The water bowl is smooth surfaced for easy cleaning and has an expected lifetime of over 3 years in sunny / warm climates.

Squatting Slabs Packing Information

Large Squatting Plate:	1.2 x 0.8 x 0.7m
<i>Packing:</i>	32 Pieces per pallet
Small Squatting Plate:	0.8 x 0.6 x 0.6m
<i>Packing:</i>	64 Pieces per pallet

We offer moulds and templates in a variety of shapes and types for on site production of concrete slabs.

Hygiene Promotion Kit

Hygiene promotion is a fundamental and essential tool in increasing awareness and helping to prevent disease caused by poor sanitation and hygiene practises.

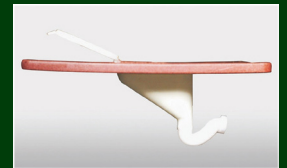
Butyl Group are pleased to offer a range of Hygiene Promotion kits designed to create awareness and understanding of the importance of good hygiene practises.

The kits are designed for use at community level where populations are dispersed, and contain materials and supplies for implementation of activities in various settings such as puppet kits, information posters, white boards / markers, banners and laminated information leaflets as well as books and cd's. The kits can be tailored to your specific needs and are boxed and packed for worldwide shipping.

Flexigester - Anaerobic Digestion

The Flexigester kit is an anaerobic digestion system manufactured from flexible black butyl rubber which converts organic waste into biofertiliser and biogas. The Flexigester kit is available in a variety of sizes and contains the equipment you need to treat the waste and to collect and store the gas, including a unique gas regulation system.

The Flexigester promotes health; it can be attached directly to a pour-flush latrine system, removing sewage for the latrine area and reducing odours and risk of disease caused by flies and other vermin. The biogas produced can help to replace charcoal and wood as a fuel source, while the nutrient rich liquor can be used as fertiliser to enrich the soil and promote crop growth.



Vector Control

Vector control is essential in limiting the transmission of disease pathogens. A variety of strategies may be employed depending on the type of vector control required.

Recent Vector Control information from the World Health Organisation shows that 12 major diseases are caused by vectors globally, with around 700,000 deaths caused by vector-borne diseases annually, and that 80% of the world's population is potentially at risk from one or more vector-borne disease (<https://www.who.int/vector-control/en/>).

We offer a range of manual backpack sprayers and foggers for large areas. Our manual sprayers incorporate high quality brass pump units making them suitable for high doses of Insecticide or Chlorine, and allowing them to operate extremely well in high temperature environments.

Heavy duty pressure washers are available with electric, petrol or diesel driven motors. All have the capability for chemical injection treatments.

Our insecticide treatments are extensively used to eradicate a wide range of insects either by direct contact or ingestion.

Important Note: Insecticides can cause minor irritations to humans and we strongly recommend wearing personal protective equipment at all times when using vector control equipment and chemicals.

NaDCC disinfection tablets, soaps and detergents are all available in transport safe formats. We also have a wide range of mops, buckets, bowls and brooms suitable for most cleaning and disinfection requirements .

Our comprehensive selection of personal protective clothing can be used for vector control or for general cleaning. The range includes, coveralls, overalls and aprons, boots, overshoes, gloves in leather, plastic or rubber; caps, goggles, glasses and other safety headgear.

Complete kits are available for individuals, or they can be scaled for larger work teams. Safety masks are offered as single use or with replacement canisters for long term use. All items are available in a range of sizes to accommodate your requirements.

Printing services are available should you require your own logos or branding on any of our personal protective clothing.



Pipework, Fittings and Tapstands

A wide range of steel, plastic and canvas pipework, hoses and fittings are always available as part of our complete drinking water systems, pump or tank kits, or for existing kit replenishment.

We stock both layflat delivery hose and rigid suction / delivery hose and pipe with a variety of fittings ensuring complete compatibility with your existing systems.

Pipe welding tools and machinery are also available upon request.

Our Tapstands and water saving taps are offered in a number of designs and have been developed by our technical team in collaboration with leading Humanitarian Aid organisations to meet a range of requirements. They can be provided as individual items or in kit form including pipework and fittings.

Tapstands: Manufactured using British Standard galvanised steel water pipe to provide a robust and lightweight frame. Available as 3 or 6 Tap models.

Talflo Tap for Tapstands: The Talflo Tap is a self closing water supply valve used in conjunction with community stand posts. The Talflo Valve has been developed by the manufacturer over a considerable period of time using information received from the market place and following rigorous testing with bodies such as the Consumer Association in the UK.

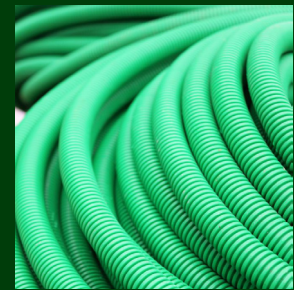
In the field it has undergone endurance testing in several countries including Egypt, Nigeria and Ethiopia and has been in use for many years in the most arduous of conditions.

- Easily operated by children and the elderly.
- Robust construction withstands rigorous use and ferrous parts are plated to resist corrosion.

Butek EasiFlow Self Closing Tap
3/4" BSPM Spring Auto Self Closing Tap suitable for Water Tanks, Tapstands, Bowsers, Drums.

Simple pour down design from horizontal fixing with push mushroom hand knob operation on the end. Uniquely designed and tested at 4 bar, the tap shows no wastage or dripping after use.

- No Water Wastage
- No Accidental Spillage
- Cost Effective
- Easy Maintenance & Extremely Durable



Talflo Tap
Talflo Tap cutaway

Below:
Butek EasiFlow Tap



Complete Disinfection for Rural Hospitals for a Year

INTRODUCING
"A YEAR IN A BOX"



Imagine all the infection control needs of a rural clinic or hospital supplied in JUST ONE BOX...

- All drinking water
- All hands
- All surfaces
- All instruments

ONE YEAR : ONE BOX

The Aquatabs brand is globally recognised and is the only product registered in the USA that's approved effective against bacteria, mycobacteria, fungi, spores, viruses and biofilm.

Keeping surfaces safe from reinfection for 24 hours

This mix 'n' Match combi-pack provides affordable, accessible, high performance disinfectant products that meet the needs of a busy healthcare facility or hospital.



25 Bed Healthcare Facility
Cost = \$1 a Day
For One YEAR!

Readily available for rural healthcare facilities to provide the quality of care each family unit, child, expectant mother and newborn baby have a right to expect.

Each product is designed for ease of use, transportation and storage, and manufactured to the highest standards in compliance with GMP regulations.





High-level broad-spectrum disinfectant with added cleaning.

The first and only product approved by the USA EPA as effective against surface Biofilm, Candida auris, Bacteria, Mycobacteria, Fungi - Killing *Clostridium difficile* spores in 4 minutes. **Keeps surfaces safe for 24 hours.**

One tablet in 5 litres of water will disinfect general surfaces, floors, tables, sinks & walls @ 200ppm

One tablet in 1 litre of water disinfects high risk areas @ 1,000ppm

ULTRASEPTIN® - Water Soluble Granulate

High-Level granulate for exceptional disinfection of medical and surgical instruments, equipment and endoscopes.

Effective against Biofilm, bacteria, yeast, mycobacteria, Tuberculosis, viruses, spores and fungi.

Add 20g of granules per 1 litre of water. Immerse instruments into the solution for appropriate contact time.

Aquatabs Flo and Aquatabs InLine

Water Purification Unit

Water Purification System

Aquatabs Flo and Aquatabs Inline Water Disinfection Systems are specifically designed for ease of installation and use. Suitable for water tanks, community storage containers, hospitals and healthcare centres.

Aquatabs Flo:

Automatic dosing at point of entry into a tank. Each unit disinfects 180m³ @ 2ppm

Aquatabs InLine:

Integrates seamlessly into pressurised water systems. Each cartridge purifies approximately 900m³ of water.

Butyl Aquatabs Tank System

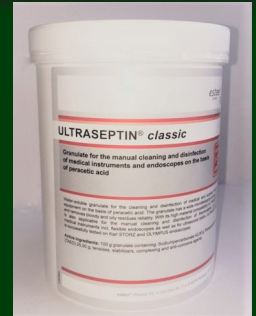
Inline Water Purification

The Butyl Aquatabs Tank System (BATS) is a dual dosing unit that provides a direct chlorine feed into Butyl Demountable Steel Tanks (Aid/O2/Oxfam models), and can also be used with Bladder Tanks, Onion Tanks and Quick Tanks.

BATS is connected directly to the inlet feed for the tank and attaches to existing tank fittings for stability. It can be supplied with a pump system capable of delivering 60 litres per minute; the recommended volume for Aquatabs Inline operation.

The system can be supplied with all new builds, but is also suitably designed to allow extremely simple retro-fitting to tanks already in operation in the field.

The BATS unit is supplied securely packed in its own crate, with the Aquatabs Inline Chlorination cartridges secured in approved International Air Transport Association (IATA) packaging, making the entire system safe for both passenger and cargo flights.



Family Filter Kit

A family water filter kit with a flow rate of up to 90 litres per hour. Operational lifetime of up to 5 years with a built in flushing and backwash system. The kit includes a 25 litre HDPE bucket with lid for collecting untreated water and a water filter unit. Designed and manufactured in the UK.

Easy to use

Manually operated and highly portable: means that the filter Kit can be used anywhere there is a suitable water source. The water filter has been tested and approved under EPA-US National Primary Drinking Water Regulations and has a Bacteria retention of Log 7 and a Virus retention of Log 5.

The Family Filter Kit HF is **50% more efficient** than other filters and **20 times more effective** in terms of life expectancy.

Oral Rehydration Kit

Developed in collaboration with the International Federation of Red Cross & Red Crescent Societies in Geneva, our kits provide rehydration sachets to replace lost bodily fluids, water treatment and filtration equipment to provide clean drinking water and other hygiene promotion related items. The bulk of the kit is contained in one compact tub with additional buckets completing the kit. The potential benefits of pre-positioning kits in areas that may have a greater risk of bacterial outbreaks are vast. Having equipment pre-positioned to immediately deal with cases helps reduce the spread of disease and aids quicker recovery times where communities are able to react quickly. The kits are fully customisable and can easily be scaled to accommodate population and extent of outbreak.

Packed volume per kit is a mere 0.52m³, Total weight per kit 5kg
 A pallet 1.2 x 1.2 x 1.05m contains 20 kits
 Combined total weight (including pallet) 145kg

- Helps combat bacterial outbreaks such as Cholera, Giardiasis and & waterborne diseases
- Ideal for distribution as a preventative measure for communities at risk throughout the world
- Oral rehydration sachets for human consumption helps restore essential fluids lost through sickness
- Standard kit provides equipment sufficient to deal with 400 individual cases
- Fully customisable tabards / flags with your organisation logo for increased visibility
- Full kit specification available upon request
- Full instructions provided
- Number of Community kits can be scaled dependant on population / extent of outbreak



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United Kingdom
www.pumpsets.com

Butek Landline

Lingfield House
11 Radford Crescent
Billericay, Essex, Cm12 0DW
United Kingdom
www.butek-landline.co.uk

RNT Tanks & Silos

Unit 8, Drove Road
Gamlingay
Bedfordshire, SG19 2HX
United Kingdom
www.rnttanks.com

Partners

Procter & Gamble Plc.

Kersia (Aquatabs)

DeLagua Ltd.

SOWtech C.I.C

PalinTest

Distribution Hubs





- Action Contre La Faim
- Australian Aid
- Care International
- Catholic Relief Services
- Citrus International Trading Plc
- Concern Worldwide
- Christian Aid
- Department for International Development (DFID)
- International Federation of Red Cross & Red Crescent Societies
- International Committee of the Red Cross
- International Medical Corps
- International Rescue Committee
- Islamic Relief
- Logistica Humanitaria
- Medair
- Medecins Sans Frontieres
- Mercy Corps
- Norwegian Church Aid
- Norwegian Refugee Council
- Oxfam
- Plan
- Save the Children
- Tearfund
- UK Aid
- UNICEF
- United Nations Agencies
- US Aid
- Welt Hunger Hilfe
- World Food Programme
- World Health Organisation
- World Vision



UK Headquarters Main Building



Plastics Manufacturing Floor B



Latest Technology Manufacturing Equipment



UK Warehousing



Panama Warehousing









M40 Mass Sanitation Module Installation (Donated by Swedish Red Cross / Supplied by Butyl Products Ltd.) Uganda, 2017



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 ESSENTIALS**

