

# Butyl Products Ltd.



## 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

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# 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 Products Ltd. have been working with Global Aid Agencies, International Relief Agencies, National Governments and Non Governmental Organisations around the world since the 1970's, 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 Products Ltd 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, wastewater systems 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 organisation; 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:

- Modular Wastewater System (MWS)
- East African Storage Terminal (EAST)

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## Butyl Products Ltd Companies

### Pumpsets Ltd.

Unit 2, North Way  
Walworth Business Park  
Andover, Hampshire, SP10 5AZ  
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

## Distribution Hubs





# E.A.S.T



## EAST AFRICAN STORAGE TERMINAL



### East African Storage Terminal (EAST)

Butyl Products Ltd. have established the East African Storage Terminal (EAST), located in Nairobi, Kenya, with our support partner Spartan Relief.

This storage terminal has been developed to meet leading Aid Agencies desire to reduce logistical delays for specified key WASH items used within the African Continent for emergency situations.

Holding stock of dedicated WASH equipment which can be made available for dispatch in East Africa within 24 - 48 hours notice, will assist Aid Agencies and NGOs in responding to disasters.

#### Key stock items:

- Kit 5 (WASH kit for 5,000 beneficiaries)
- Steel galvanised water tank kits (12,000 - 100,000 litres)
- Water Bladders 5m<sup>3</sup> - 20m<sup>3</sup>
- Onion Tanks 30m<sup>3</sup>
- Surface water pumps 2-3"
- Aquatabs
- NFI



## Key elements of example:

Number of beneficiaries – 150,000

Quantity of water per person required - 15 litres per day

Total water usage per day- 600,000 litres

Total water storage – 4,000 m<sup>3</sup>

## Our Solution

Our engineers used the 4D system to determine the type and quantity of products / systems that would be required:

- Demand:  
How many people?
- Distance:  
Transportation Requirements?
- Duration:  
How long will it be operational?
- Destination:  
Environmental Observations  
(Climate / Terrain etc.)

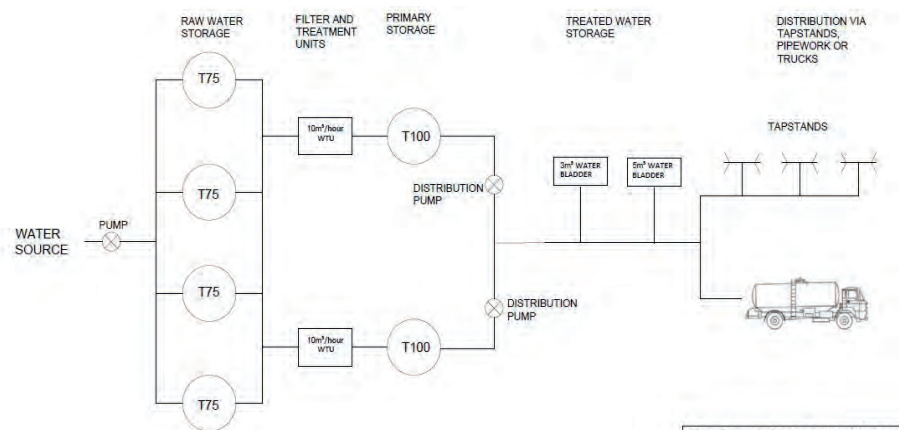
## Bespoke Clean Water Camp System Designs

Butyl Products engineers have been integral partners, collaborating closely with leading aid agencies to design, manufacture, and deliver tailor-made clean water systems and solutions. These solutions are tailored to address the many challenges encountered daily within the WASH sector.

As an illustration we were requested to assist with a project to supply a population of up to 150,000 people with emergency drinking water in Ukraine. As the exact location and quality of the raw water source were unknowns, we allowed for the design of the system to be both modular and extremely resilient.

The batch treatment system was designed around our bulk storage O2 Tanks, which are very efficient for logistics and quick to assemble. Raw water from a river, lake or reservoir is efficiently pumped into these tanks. The water is then able to settle out a high proportion of the solids and the clarified portion is pumped through the filtration unit to the holding tanks for the treated water. Chlorine is added using an automatic dosing pump. The safe drinking water is then pumped into the distribution system which can incorporate some or all of: tapstands for beneficiaries to collect the water from, direct connection into local water infrastructure or a collection point for tankers to load up with water for delivery further afield.

Our comprehensive service encompasses both the design of a system (or collaboration with customers' WASH Engineers) and the supply of all the high-quality components. The kits supplied include pumps, water storage tanks, water purification chemicals, water testing equipment, distribution pipework with accompanying fittings, as well as taps and tap stands. This holistic approach guarantees the establishment of a dependable drinking water distribution system that serves the entire camp. Given the enduring nature of many of the 500 refugee camps worldwide, the implementation of clean water systems is pivotal in sustaining the health of the population.



Drawing number: BPGM40/WATER02



## O2 Range Steel Water Storage Tanks

Specially suited where large capacity and depth are required. Our Magnelis® coated 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.

**Tank Body:** Corrugated Magnelis® coated 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.

**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, pumps, valves, distribution pipework & tapstands.

## 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.

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

**Frame:** 32mm diameter galvanised steel water pipe with cast aluminium fittings.

**Standard Outlets:** 2" BSP Anodised Aluminium

**Capacity:** 3,000 litres to 40,000 litres

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

**Kit Options:** Pumps, valves, distribution pipework & 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.

- Material:** Nylon reinforced food grade PVC for water storage.
- Standard Outlets:** 3" BSP (M) Anodised Aluminium outlets and 3" BSP (F) Brass gate valves
- Capacity:** 5,000 litres to 30,000 litres
- Packing:** All units are supplied packed in ISPM15 heat treated plywood cases suitable for export.
- Kit Options:** Pipework, pumps, alternative valves, distribution 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. All of our Bladder / Pillow tanks are designed to withstand harsh environments. They 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.

## Fuel Bladders

Our fuel bladders have been developed especially for the harsh emergency aid environment, and are supplied with special outlets, valves and vents to suit use with diesel, Jet fuel and other liquid chemicals. The tanks can be unrolled and used on any area of flat ground that has been cleared of debris.

- Material:** 1300 g/m<sup>2</sup> Polyurethane coated both sides on a high tenacity polyamide. Available in Grey, Green or Sand colours.
- Standard Outlets:** 2" skin fitting with V50 locking butterfly valve giving 2" BSP (F) outlet with plug. 2.5" skin fittings with mushroom vent and alternative plug. 2" skin fitting with plug.
- Capacity:** 1,000 litres to 100,000 litres
- Packing:** All units are supplied packed in ISPM15 heat treated plywood cases suitable for export.
- Kit Options:** Groundsheet, flame tube, bund liner, additional valves.

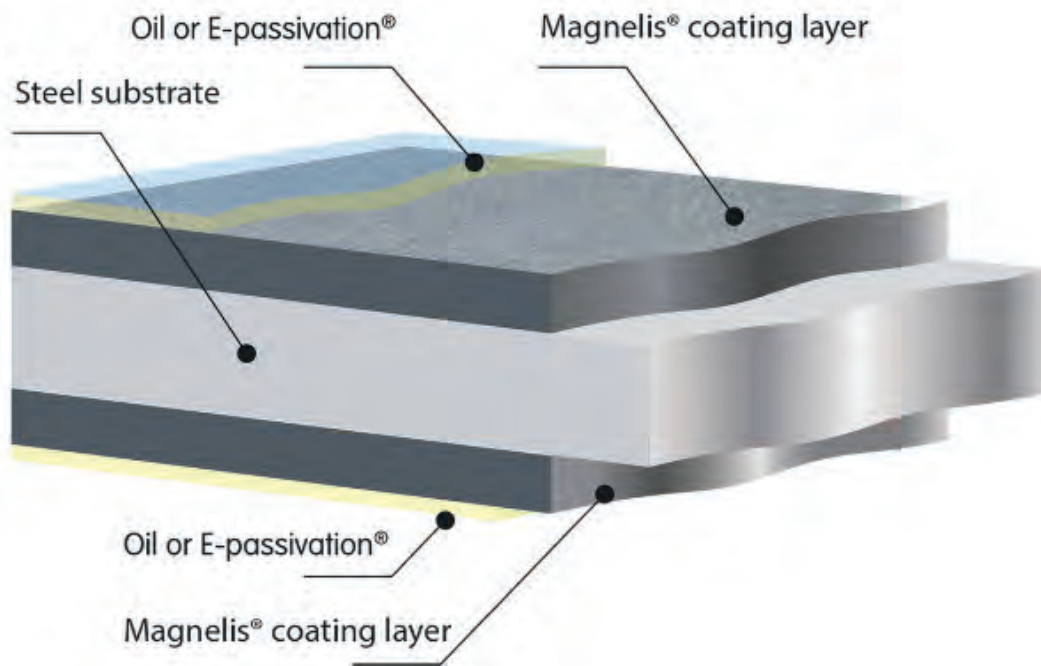


# Magnelis® Steel Coating

## Magnelis® Steel Coating

In an era where innovation meets the urgent need for resilient solutions, Butyl Products Ltd. is proud to unveil a game-changing enhancement to our Emergency Aid steel tanks: Magnelis® coating.

This cutting-edge metallic steel coating promises to redefine the standards of durability and protection. The data from comparative studies is nothing short of impressive, with Magnelis® outshining equivalent products thanks to its advanced composition and remarkable self-healing properties.



### What is Magnelis®?

This innovative coating comprises a metallic Zinc base infused with 3.5% Aluminium and 3% Magnesium, creating a formidable shield against the harshest of environments, including chloride, ammonia, and highly alkaline conditions.

At Butyl Products Ltd., we're thrilled to introduce Magnelis® coating as a pivotal upgrade to our Emergency Aid tanks. With its extraordinary qualities, it's more than a coating; it's a shield against corrosion, enhancing longevity, and a testament to our commitment to excellence.



**Magnelis® benefits:**

**1. Zinc-Aluminium-Magnesium Coating:**

This unique alloy provides unparalleled corrosion resistance, leaving traditional zinc and galvanised coatings in the dust.

**2. Self-Healing Properties:**

Magnelis® possesses a remarkable ability to heal itself. Scratches or damage to the coating triggers the formation of a protective zinc layer, halting corrosion in its tracks and extending the material's lifespan.

**3. Longer Lifespan:**

Thanks to its superior resistance, Magnelis® coated steel can endure up to three times longer than standard galvanised steel when exposed to harsh environments, making it the top choice in industries like construction, automotive, and renewable energy.

**4. Reduced Maintenance:**

The self-healing and enhanced corrosion resistance qualities translate into substantial long-term cost savings. Less maintenance, fewer repairs, and recoating requirements make Magnelis® a practical investment.

**5. Environmentally Friendly:**

Magnelis® uses less Zinc than traditional galvanised steel, longer lasting, less maintenance and is 100% recyclable.

**6. Technical Approvals:**

Germany: German Institute for Building Technology DIBt Z-30.11-51 for Magnelis® in contact with soil and water, France: ETPM for Magnelis® by CSTB, Sweden: Technical Approval no SC0559-13, UK: Steel Construction Institute (SCI) concluded that the coating was appropriate for use when specified in construction.





# Modular Wastewater System



## Modular Wastewater System (MWS)

The MWS is a bespoke modular wastewater system designed to assist with local sewage requirements based on the number of people at your location.

The waste stream is treated with efficient, low-energy processes that will remove all dangerous pathogens.

The discharge water can be deployed directly into an existing drainage system.

*Data based on an 800 person facility* **STAFFING REQUIREMENTS**

4 x skilled and 6 x local labour (for initial set up)

### DAILY INPUT OF WASTE

80-000 - 120,000 litres

### SYSTEM VOLUME

300,000 litres (4 x O2T75 tanks)

### PATHOGEN REDUCTION

99.99%

### OPERATIONAL IN 11 DAYS

Each MWS can be installed in around 7 - 20 days (depending on facility size) using supplied technical support and local labour.

**Site based lab facilities for testing fecal sludge, Ammonia and Nitrogen (training provided for local staff)**





## Modular Wastewater System (MWS) Case Study

On July 14, 2021 the low-pressure weather system Bernd devastated parts of Germany, Belgium, and the Netherlands, causing an unprecedented catastrophe that claimed the lives of more than 180 people.

Particularly affected was the Ahr Valley in Western Germany, with entire villages destroyed by the flood. During the clean-up and reconstruction, it quickly became clear that as well as entire villages the local wastewater treatment plants had also been destroyed.

With raw sewage leaking into the river and the very real prospect of rebuilding the plants not being completed for years, there was an urgent requirement for an emergency deployable wastewater kit that could fill in the gap.



By a quirk of good fortune, the German Red Cross had only the previous month taken delivery of three prototype wastewater systems of this very type, manufactured by Butyl Products Ltd. in the UK.

These kits were the culmination of work started in 2018 when the IFRC installed the first pilot plant in the Cox's Bazar refugee camp in Bangladesh.

Once the decision had been made and the ground prepared, the German Red Cross with assistance from Saygin Engineering and Butyl Products adapted and built the wastewater treatment kit in just two weeks.

The connection was opened to the sewage pipeline and the new temporary treatment plant was able to deal with all of the wastewater from the village of Mayschoss.

After the successful installation of the Modular Wastewater System in Mayschoss, two more systems were built; in Hönningen Village (2021) and Altenahr Village (2022).

In June 2022 the project was handed over to the local municipalities with the expectation that they might be needed to operate for up to five years.

All three sites continue to provide a vital service treating the sewage and preventing environmental damage.





## 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.

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

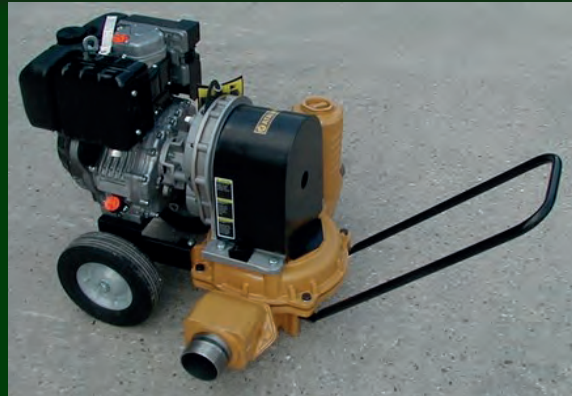
Our range of self priming diaphragm sludge pumps offer cast aluminium construction for portability and durability, solids handling up to 60mm and a choice between petrol, diesel or electric driven engines. Flow rates range between 113 and 550 litres per minute with a maximum head (Pelican DLO100) of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

Our full range of pumps, accessories and associated pipework can be viewed on our website at [www.butylproducts.co.uk](http://www.butylproducts.co.uk)





## Case Study

### Community Oral Rehydration Kits

#### The Brief

Research, develop and distribute in collaboration with the International Federation of Red Cross & Red Crescent Societies, a complete rehydration kit in response to Cholera outbreaks in Central & West Africa.

#### Our Solution

A fully customisable, compact and self contained kit supplied in one small package for community use. The kit contains sufficient equipment to provide clean drinking water and rehydration sachets to replace lost body fluids and should be scalable to accommodate any population size.



### Oral Rehydration Kits

*"A comprehensive strategy for Cholera treatment includes not only establishment of Cholera Treatment Centres..... but also support of community services to provide early rehydration when distance, safety or other barriers limit immediate access to a hospital or cholera treatment facility" UNICEF Cholera Toolkit, 2013*

The Butyl Products Ltd Oral Rehydration Kit has been designed to help combat outbreaks such as Cholera, Giardiasis and other waterborne diseases. It is a cost effective solution and ideal for distribution as a preventative measure for communities at risk throughout the world. Community Oral Rehydration Points can be crucial at village level as a first intervention, providing clean water, a place to rest and recover and importantly, information about how to treat and prevent Cholera. The kit includes the Grifaid Family Filter, approved by the WHO, which is key to generating 90 litres of clean water per hour. They can be branded with your logo for increased visibility if required.

"Three weeks ago, 2 year old David started showing all the common signs of cholera: dehydration, vomiting and muscle cramps. While his mother was working in the fields his babysitter brought him to the Red Cross Oral Rehydration Point (ORP) in Torit, east of Juba. The ORP has been set up to detect and assist with early intervention where cholera is prevalent. David was provided with clean water and rehydration salts, allowing his body to regain strength and counter some of the symptoms of the disease.

Despite the speedy intervention, David's condition worsened. Red Cross volunteers quickly took him to the main hospital in town, providing oral rehydration salts along the way to keep him alive. At the hospital, with his mother at his side, David recovered and within a few days he was smiling and back on his feet."

Case information courtesy of IFRC & RCS

## Oral Rehydration Kit

Developed in collaboration with the International Federation of Red Cross & Red Crescent Societies in Geneva, the ERU kits provide all the required equipment and resources to set up and run a community Oral Rehydration Point (ORP.) The kit contains folding table, chairs and tarpaulins to allow the rapid setup of the ORP and commencement of the use of oral rehydration sachets to replace lost bodily fluids.

Clean water is provided by the included filtration equipment and chlorine to maintain water as safe to drink whilst it is stored for later use. The ERU also contains hygiene promotion related items, PPE for the staff and record keeping stationary. The ERU also contains equipment to help maintain the cleanliness of the ORP, including a backpack sprayer, disinfection tablets and the WHO approved Grifaid filter.

The ERU kit is contained on one pallet for transport and logistics purposes. The kit can however be broken down into separate elements that are easily man-portable. 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 immediately when an outbreak occurs. The kits are fully customisable and can easily be scaled to accommodate population and extent of outbreak.

Packed volume per kit is 1.09m<sup>3</sup>, Total weight per kit 180kg

A pallet 1.2 x 1.2 x 1.05m contains 20 kits

Combined total weight (including pallet) 145kg

## 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 Products Ltd. 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.

## Grifaid Family Filter

The WHO approved Family filter is a manually operated family water filter kit with a flow rate of up to 90 litres per hour. It has an operational lifetime of up to 5 years with a built in flushing and backwash system.

The Family Water Filter Kit is 50% more efficient than other filters and 20 times more effective in terms of life expectancy. The filter has been tested and approved under EPA-US National Primary Drinking Water Regulations and has a Bacteria retention of Log 6 and a Virus retention of Log 6.

The filter has a clean water tap to avoid cross contamination and a transparent back-flush container to allow you to see the back-flush really working.





## Water Purification & Testing

Butyl Products Ltd 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.

Tablet sizes and volumes treated are as follows:

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

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.

## 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).



## Butyl HLD Kit

Butyl Products Ltd. now offer a high-level disinfection kit to provide clean water and disinfection solutions for rural clinics/health centres and hospitals.

The need to provide clean and safe environments is of the highest importance, with a responsibility to protect patients, staff, and visitors by ensuring that facilities and equipment are fully sanitised to a clinical standard.

### Kit contents for 3 months use for 25 beds

- |                              |                                 |
|------------------------------|---------------------------------|
| 3 x Klorkleen (150 tabs)     | 3 x Ultraseptin (1kg)           |
| 1 x Family Filter            | 1 x Plastic box (24 litre)      |
| 2 x Spray bottles ( 1 litre) | 1 x Soft cloth (pack of 50)     |
| 1 x Jerry can (10 litre)     | 1 x Box of gloves (pack of 100) |
| 1 x Bucket (10 litre)        | 1 x Mop                         |
| 5 x Soaps                    |                                 |

### Replacement consumables available every 3 months.

Once the kit is in-situ, replacement consumables are only required every 3 months to maintain the excellent disinfectant levels required.

### Aquatabs®

Designed in conjunction with the chemistry of Aquatabs®, Klorkleen® effervescent tablets combine the power of NaDCC disinfection with additional cleaning to provide the perfect solution for use against potentially dangerous diseases, by providing a system for disinfection requirements in clinical areas.

The kit also contains Ultraseptin, a cold chemical high level disinfection solution for the treatment of medical instruments and endoscopes, to enhance infection control standards in clinical environments.

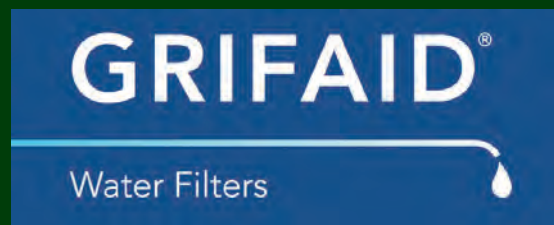
### Grifaid Family Filter

The Family Filter is an innovative device that can provide a fast filter treatment for up to 90 litres of water per hour.

Producing water as required means there is no need for additional purification prior to water storage.

With a bacteria and a virus reduction of Log 6 and approved by the WHO (July 2022), it is one of the simplest manual water filter systems on the market.

Application	Dosing Requirements (Klorkleen®)	PPM
Food prep, food handling, processing surfaces.	1 x tablet 10 litres of filtered water	100ppm
General cleaning, non critical areas, walls and floors.	1 x tablet 1 x litre of filtered water	1,000ppm
Critical care areas, operating theatres.	2 x tablets 1 x litre of filtered water	2,000ppm
Dirty surfaces contaminated with blood, and bodily fluid spills.	5 x tablets 1 x litre of filtered water	5,000ppm





## Squatting Plates / Slabs

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

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

## SanPlat Mould Kit

The mould box kit contains everything needed to reproduce concrete squatting plate moulds in a cost effective way.

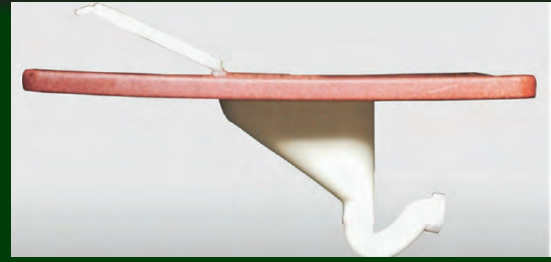
The kit is ideal for shipping so that slabs can be produced in country and therefore reduce international freight costs.

Supplied in a lockable plywood box with a carry handle at each end.

### Kit contents

- 10 Drop hole moulds in plastic
- 2 Belt moulds 1.2m Ø
- 2 Belt moulds 1.5m Ø
- 6 Belt clips
- 2 Arch moulds 1.2m Ø
- 2 Arch moulds 1.5m Ø
- 2 SanPlat foot rest moulds
- 2 SanPlat frames 60 x 60cm
- Manuals, book and CD

*Weights and Dims:* 75 x 68 x 28cm @ 44kg



## 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.

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.

## Personal Protective Equipment

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.

## Tool Kits, Storage Chests, Individual Tools

We are pleased to offer a wide range of tool kits to assist with a variety of tasks such as latrine and well construction, general maintenance and installations. Our extensive supply chain network means we can provide a comprehensive range of tools on an individual basis including shovels, spades, carpentry tools, augers, rock drills and power tools if your project calls for them.





## 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 WRAS approved 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.

**Butek Easi Flow 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.

**Tap Flow Rate:**

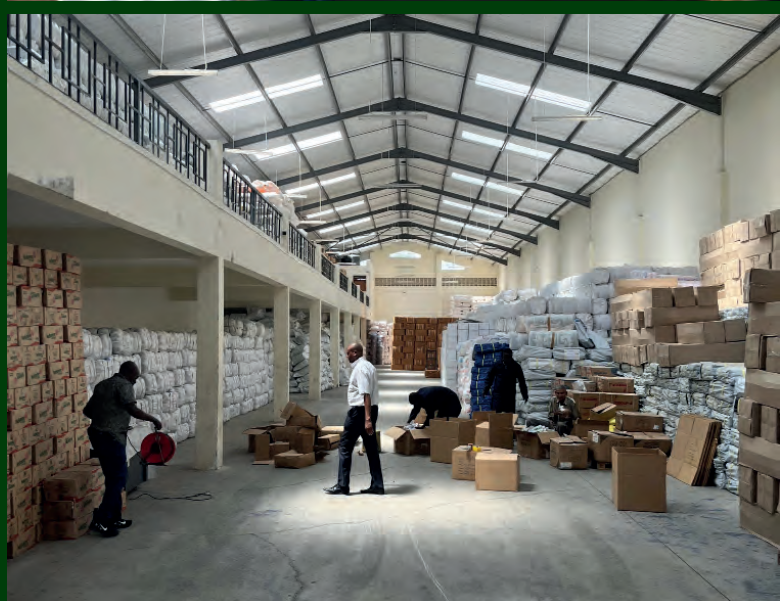
Litres/hr water	1,200
Head/bars	1m / 0.14





- Action Contre La Faim
- Australian Aid
- Care International
- Catholic Relief Services
- Citrus International Trading Plc
- Concern Worldwide
- Christian Aid
- 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









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



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