

Water is weight, why carry it?



LIFESAVER[®]
systems

The World's first all in one ultra filtration system



LIFESAVER technology provides water scavenging capability and can reduce weight by up to 4kg per man

"There is no need for tablets, boiling, chemicals, shaking, scrubbing, waiting or effort. LIFESAVER hydrocarry II produces clean, sterile drinking water with no foul taste. It offers a huge tactical advantage to the soldier in the collection and drinking of water - a time when he is at his most vulnerable."

Michael Pritchard, Inventor of LIFESAVER technology

Introducing the LIFESAVER hydrocarry II

The culmination of over two years research and development, the patented LIFESAVER hydrocarry II is the world's first ultra filtration hydration pack.

Tailored to fit neatly within a standard issue daysack it incorporates LIFESAVER's world class ultra filtration technology which removes bacteria, viruses, cysts, parasites, fungi and every other microbiological waterborne pathogen without the use of chemicals. The unit acts like a traditional bladder pack with the significant benefits of allowing the user to harvest water from any source, filter and consume it, or share it with others, instantly.

Integrates with current dismantled soldier load carriage solutions

Through the efficient use of previously redundant space around and below the back protector pad, the hydrocarry II takes up less than 6% of the internal volume and sitting parallel with the users' spine centralises the weight. Hydrocarry II has a unique scavenging hose system allowing the user to draw water from any source without removing his gear.

Features include: a storage capacity of 3L and a filter cartridge service rating of 4000 Litres. Its unique design means that the hydrocarry never needs to be cleaned; once installed it may remain within the day sack for months at a time.



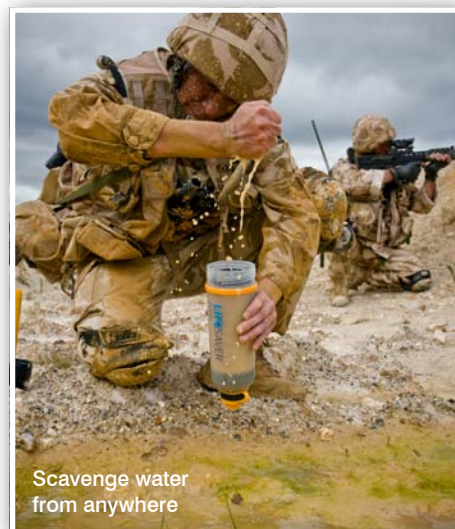
Optional pump unit

Detachable shoulder mounted pump unit for single handed operation



LIFESAVER hydrocarry II

Its slim design takes up just 6% by volume of the standard issue daysack



Scavenge water from anywhere

Thinking Differently

LIFESAVER bottle

Experience from in-theatre has shown the use of the LIFESAVER bottle can reduce the weight burden on front line troops by over 4kgs per man. With no extra water bottles to carry that's a huge saving. Using a LIFESAVER bottle frees up space for other important equipment. LIFESAVER delivers increased operational duration without the constraints of water resupply. Other tactical advantages include the ability to avoid dependence on known water sources, increasing OPSEC and flexibility in mission planning.

LIFESAVER jerrycan

Using LIFESAVER jerrycans in places such as Forward Operating Bases dramatically reduces the need for water re-supply and transportation in theatre. 1x LIFESAVER jerrycan can sterilise up to 20 tonnes of fresh cool drinking water without the use of iodine (which is now a banned substance) or the need to boil the water. Guaranteed water supply means flexibility.

Old Thinking

Water is weight! Transporting it even short distances is costly and time consuming. LIFESAVER technology changes this paradigm. A Boeing C-17 Globemaster III transport plane can transport a maximum payload of 72,000 litres

LIFESAVER[®]
systems

No chemicals are used, LIFESAVER simply filters c

"The LIFESAVER bottle is an innovative water purification device that can remove debris, bacteria and viruses from water utilizing a unique membrane filtration system. With a 15 nanometre diameter filtration, it effectively creates fresh water instantly and safely for a soldier or marine. Water is weight! The LIFESAVER bottle provides water scavenging capability and fulfils a critical need of sustainability on the battlefield."



Mark Richter,
Programme Manager, MERS, Marine Corps Systems Command, Quantico VA



Easy, convenient shower attachment, why bathe in dirty water?



For larger quantities use the LIFESAVER jerrycan



(19,020 gallons) of water. This is only enough water to last 800 soldiers 9 days at a cost of \$20 dollars per person per day.

New thinking

Using LIFESAVER technology the same 72,000lts of water could be dispensed from just four jerrycans at a cost of only 13 cents per man per day. LIFESAVER is 85% cheaper than Reverse Osmosis (RO) Water and 97% cheaper than shipping bottled water.

LIFESAVER cartridge

Easily changed replacement cartridges are available from 4-20,000 litres. The cartridge will remove bacteria, viruses, cysts, parasites, fungi and all other microbiological waterborne pathogens from your water. The LIFESAVER jerrycan comes with a 20,000UF cartridge with a service rating of up to 20,000 Litres.

Failsafe technology

When the cartridge has expired, the system automatically shuts off preventing you from drinking contaminated water.

Activated carbon filter

All three LIFESAVER products are available with an activated carbon filter. This is made of

high specification activated carbon block which reduces a broad spectrum of chemical residues including pesticides, endocrine disrupting compounds, medical residues and heavy metals such as lead and copper. It also eliminates bad tastes and odours from contaminants such as chlorine and sulphur.

No chemicals

Users of iodine and other foul tasting chemical sanitizers will appreciate that the LIFESAVER bottle and jerrycan do not USE any chemicals.. It simply filters out all water-borne pathogens creating safe sterile drinking water - fast.

Wound Jetwash/Shower unit

Due to its unique pneumatic action, LIFESAVER bottle can be used to direct a pressurised jet of sanitised water directly onto a wound, jetting away debris and other contaminants. LIFESAVER bottle allows for levels of wound irrigation never before possible in the field. As an extra feature, the LIFESAVER jerrycan shower attachment can offer additional levels of wound irrigation and the ability for soldiers to freshen up in-theatre.

LIFESAVER™ technology removes

Bacteria >Log 7 99,999,999%	Viruses >Log 5 99,999%	Cysts >Log 7 99,999,999%	Parasites >Log 7 99,999,999%	Fungi >Log 7 99,999,999%
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from all sources of water

out all water-borne pathogens, creating safe sterile drinking water - instantly!

LIFESAVER bottle

Carried water is carried weight, reduce it

Experience from in-theatre has shown that the use of the LIFESAVER bottle can reduce the weight-burden on front line troops by 4kgs. No extra water bottles, no water to carry.

In service with British Forces since 2009.

NATO Stock Number: 8465-99-855-3111



LIFESAVER jerrycan

Easing the re-supply burden

One LIFESAVER jerrycan can instantly sterilise up to 20 tonnes of fresh cool drinking water without the use of chlorine, purification tablets, or the need to boil the water before consumption.

In service with British Forces since 2010.

NATO Stock Number: 7240-99-173-8276



LIFESAVER hydrocarry II

The world's first all-in-one ultra-filtration hydration pack

Tailored to fit in to space that is usually redundant within the daysack, Hydrocarry II has a unique scavenging hose system allowing the user to instantly draw, filter and drink water from any source without removing his gear.

Available Now.



Performance and technical data

Minimum operating temperature

>0 °C (32 °F)

Maximum operating temperature

50 °C (122 °F)

Minimum storage temperature

-10 °C* (14 °F)

Maximum storage temperature

60 °C (140 °F)

Initial flow rate of bottle

2.5L/min@0.25 Bar¹

Initial flow rate of jerrycan

2L/min@0.5 Bar¹

Initial flow rate of hydrocarry II

2.5L/min@0.25 Bar¹

LIFESAVER bottle

UF cartridge service rating

4000 litres (1056 US gallons)

6000 litres (1585 US gallons)

LIFESAVER jerrycan

UF cartridge service rating

20000 Litres (5300 US gallons)

LIFESAVER hydrocarry II

UF service rating

4000 litres (1056 US gallons)

MWCO

200KDa – on dextrans

Bacteria retention

>99.999995 % (log 7.5)2

Virus retention

>99.999 % (log 5)3

Chemical reduction

Activated carbon reduces chemical residues, inc; pesticides, endocrine disrupting compounds, medical residues and heavy metals

LIFESAVER systems US compliance

EPA - US National Primary Drinking Water Regulations under the Safe Drinking Water Act 93-523

LIFESAVER systems UK compliance

Water Supply (Water Quality) Regulations 2000

LIFESAVER systems EU compliance

European Drinking Water Directive Council Directive 98/83/EC

LIFESAVER systems WHO compliance

Guidelines for Drinking-water Quality First Addendum 3rd Edition

Membrane approvals/compliances

CE, EPA, NSF, WHO, WRAS, DVGW, KIWA, KTW, LSHTM

Dry weight of bottle inc. cartridge

635 grams approx (approx 22 oz)

Dry weight of jerrycan inc. cartridge

3900 grams (approx. 137 oz)

Dry weight of hydrocarry II inc. cartridge

Approx. 725 grams (25.6 oz)

Bottle storage capacity

750ml (1.6 US pints, 25.3 US oz)

Jerrycan storage capacity

18.5L (39.09 US pints, 625.44 US oz)

Hydrocarry II storage capacity

3L (101.4 US oz)

Warranty

2 Year international limited

¹ Flow rates and capacity depend on the quality of the feed water

² Tested by London School of Hygiene & Tropical Medicine using Escherichia coli NCTC 10418 in accordance with the Protocol for Microbiological Water Purifiers in accordance with US Environmental Protection Agency (EPA) guidelines.

³ Tested by London School of Hygiene & Tropical Medicine using Poliovirus Type 1 (Sabin vaccine strain) in accordance with the Protocol for Microbiological Water Purifiers in accordance with US Environmental Protection Agency (EPA) guidelines.

* After first use the product should be protected against freezing

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The Environment

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