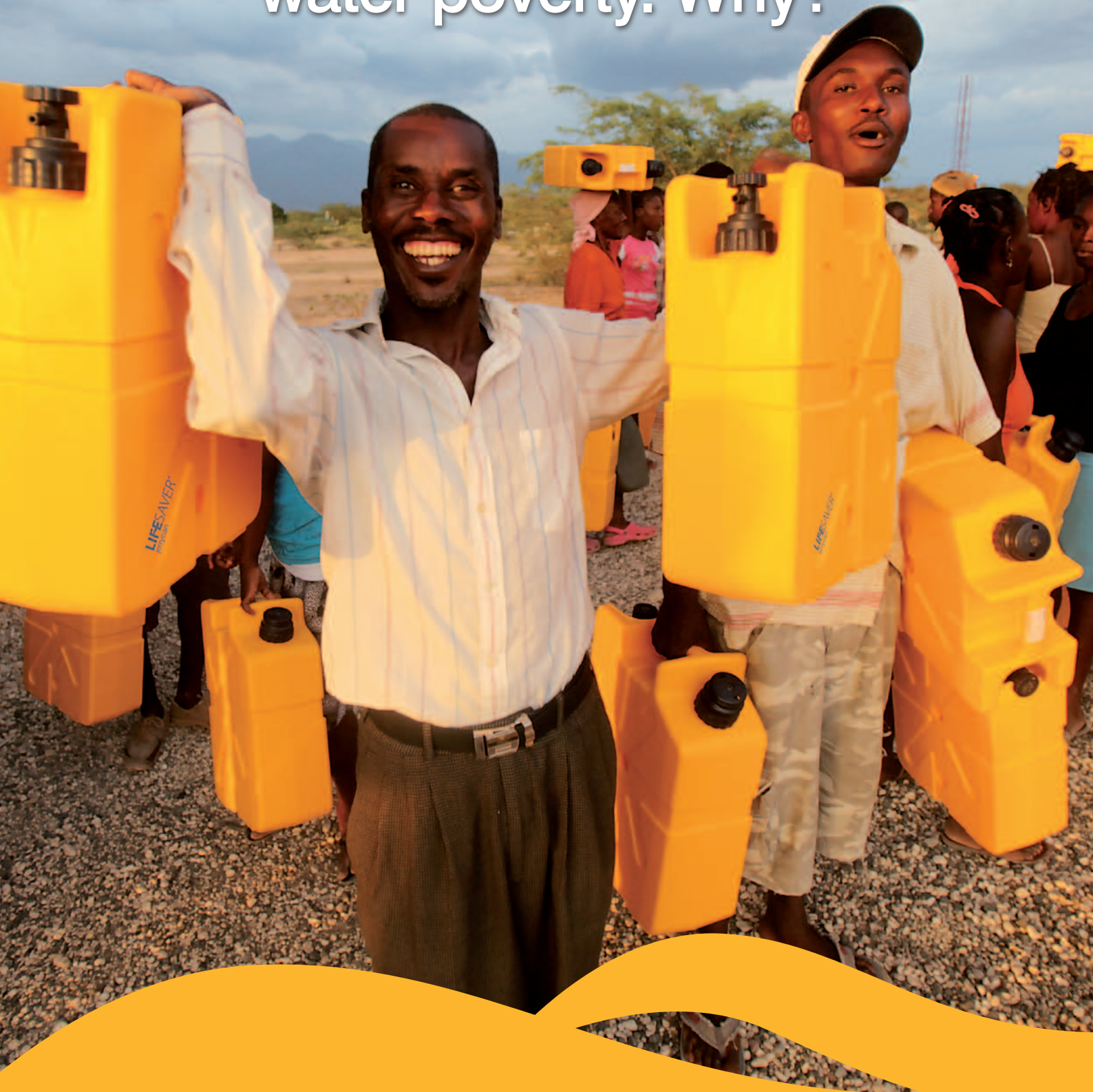


# 1.1 billion people are trapped in water poverty. Why?



**LIFESAVER**<sup>®</sup>  
systems

The World's first all in one ultra filtration system

# A low cost, instant and long-term solution to the provision of drinking water

Our patented LIFESAVER jerrycan, provides a family with sufficient drinking water for up to 5 years. No need to resupply, no ongoing support required.

"The smallest bacteria are about 200nm (200 nanometers) in size, the smallest viruses are about 25nm. The holes in LIFESAVER membranes are 15nm so nothing is getting through."

Michael Pritchard, Inventor of LIFESAVER technology

## "Everyone deserves safe drinking water" - Michael Pritchard, 2007

1.1 Billion People are trapped in water poverty. At LIFESAVER we have the answer. We offer simple low cost solutions enabling those in water poverty to be freed from it. Current thinking tells us that we must build water infrastructure in the underdeveloped and developing world. Realistically however, the funds simply do not exist to make this happen. We believe in thinking differently.

Mother Nature has the perfect water delivery system. The clouds! They pick the water up from the sea, desalinate it; for free, transport it 100's of miles across land; for free, and deposit it on the mountains and in the rivers and streams. And where do people live? Near water. All we have to do is make that water clean. How do we do this? Simple! All LIFESAVER products can do this. They are currently helping 100's of thousands of people around the world, taking them out of water poverty for good.

LIFESAVER also overcome another major problem with water. That is how do you store clean water? Well the answer funnily enough is you don't! Again by thinking differently LIFESAVER products store water in its dirty state. Why? Well have you tried storing water clean. At LIFESAVER we only clean the water at the point of use. This is another major advantage over other systems and means that our systems only clean the exact amount of water required at that time and not a drop more.

LIFESAVER systems are a British Company. We Invent, Design & Manufacture all of our products in Great Britain.

**LIFESAVER**<sup>®</sup>  
systems

No chemicals are used, LIFESAVER simply filters c



Collecting water from Cité Soleil, Haiti

## unique features...

### Low cost

LIFESAVER technology provides clean sterile drinking water to the point of need for as little as 0.08p per Litre (0.013¢ US). The LIFESAVER jerrycan allows the user to harvest water wherever it is available, instantly turning it into safe sterile drinking water without the need for flocculating powers, chemicals, boiling or UV .

*"The LIFESAVER jerrycan will help the village of Luben in Haiti develop from a health standpoint. Because the villagers are saving money not having to go to the hospital to get medical care, it will increase their wealth too."*

**David Darg, Director of International Disaster Relief and Special Projects, Operation Blessing.**

LIFESAVER jerrycans are also reducing the financial burden at a local level in Pakistan. 'On average a rural household spends approximately Rs 400 on purchasing medicines for water borne diseases that are easily preventable with the provision of clean drinking water.'<sup>1</sup>

### User independence

LIFESAVER also offers its users dignity. Without reliance on daily handouts of water or purification tablets, a family or community can gather their own water when they need it; restoring some sense of independence and pride which often suffers in emergency situations.



## OPERATION | BLESSING INTERNATIONAL

"It is vital we have the LIFESAVER jerrycan here in Haiti, so that when the people collect the water they're not going to get sick"

David Darg, Director of International Disaster Relief and Special Projects, Operation Blessing



15,000 Litres of clean sterile drinking water in one jerrycan



Collecting flood water in Sindh, Pakistan



Lower environmental impact

### Ease of transportation

It is not always the lack of water that threatens lives, it's the lack of clean drinking water. Aid agencies and governments are now starting to look at the problem in a different way by using local water sources rather than trying to bring in enough bottled water or purification tablets to solve the problem.

One standard sized pallet of LIFESAVER jerrycans is the equivalent of transporting 1 million litres of bottled water. A single pallet weighs just 200kgs and can be transported over difficult terrain by a small van or even broken down to be transported by horseback or canoe. It would require 14 Boeing C-17 Transport planes to move the same quantity of bottled water.

Carrying water long distances from wells or pumps is no longer necessary when local water sources such as river or rainwater are available.

### Making the most of NGO's time while on the ground.

WHO figures point to children needing at least 2 litres of water each day to survive. 1 LIFESAVER jerrycan can produce up to 20,000 litres of clean water. That's enough safe drinking water for a family of 4 for up to 5 years. All it takes is 2 minutes of training with the recipient/s and then the aid agency can move on to help others. There is no maintenance and only one consumable that expires after it has provided 20 tonnes of water.

### Store water dirty: clean it instantly

Leaving the water "dirty" until the very point of use means it is guaranteed clean at the point of consumption. Even if you are able to, why would you drive 20 tonnes of clean water to a remote village only to have it collected and stored at an individual level in dirty containers.

### Proven in the fight against cholera

By leaving water in the natural environment and using the LIFESAVER jerrycan to filter it only at the exact time it is needed, LIFESAVER have eliminated Cholera from effected villages in Haiti. A young mother comments during Operation Blessing's recent trip to the village of Luben, Haiti 'The LIFESAVER jerrycan is like a gift for us, because without the jerrycan we would not have life. Everybody would die. So, the jerrycan means life for us...'

### Reduced plastic waste

Humanitarian organisations are often accused of having a heavy environmental impact. This can be dramatically reduced by the use of LIFESAVER technology – less plastic bottles being distributed means: less pollution at the point of manufacture and less plastic waste at the point of use.

1 Lifesaver jerrycans in 7 Villages in Sindh Project Report, August 2011, OSDI

# Buy one Gift one

As part of LIFESAVER's Buy one Gift one programme, our water appeal for Haiti gives our consumers the opportunity to gift a LIFESAVER® 4000UF bottle to a Haitian family in need. These bottles are not only used to supply young families with clean drinking water but often are used by mothers to sterilise the water they use to make up infant milk formula.



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

# Twenty-First century technology solving age-old problems



LIFESAVER® technology removes

Bacteria	Viruses	Cysts	Parasites	Fungi
>Log 7	>Log 5	>Log 7	>Log 7	>Log 7
99.99999%	99.999%	99.999999%	99.99999%	99.99999%

from all sources of water

The original LIFESAVER bottle is also used in humanitarian environments as a source of guaranteed clean water not only for the victims but also for the Aid workers themselves.

"LIFESAVER Technology' was tested using micro organisms in far greater numbers than could ever be found in natural water sources. This is the worse-case scenario approach recommended by the EPA (Environmental Protection Agency) and their guidelines have been used to draw up our own protocols for testing of all Microbiological Water Purifiers. As well as using modified tap water for our tests we use samples taken from a pond or stream as our challenge test water to simulate 'real-life' situations as per EPA guidelines."

Under the conditions of testing in our laboratory as shown in this report, our results show that 'LIFESAVER Technology' removed all bacteria and viruses from a contaminated water source in excess of legal requirements and as such, complies with all British, US and European Drinking Water Regulations for Microbiological Reduction.

London School of Hygiene & Tropical Medicine



## LIFESAVER® systems

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Fax +44 (0)1206 215679

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Email [info@lifesaversystems.com](mailto:info@lifesaversystems.com)



## 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 aid jerrycan

2L/min@0.5 Bar<sup>1</sup>

### LIFESAVER aid jerrycan

#### UF cartridge service rating

15000 Litres (3962 US gallons)

#### Initial flow rate of bottle

2.5L/min@0.25 Bar<sup>1</sup>

### LIFESAVER bottle

#### UF cartridge service rating

4000 litres (1056 US gallons)

6000 litres (1585 US gallons)

### MWCO

200KDa – on dextrans

### Bacteria retention

>99.999995 % (log 7.5)<sup>2</sup>

### Virus retention

>99.999 % (log 5)<sup>3</sup>

### 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 aid jerrycan inc. cartridge

3900 grams (approx. 137 oz)

### Aid jerrycan storage capacity

18.5L (39.09 US pints, 625.44 US oz)

### Dry weight of bottle inc. cartridge

635 grams approx (approx 22 oz)

### Bottle storage capacity

750ml (1.6 US pints, 25.3 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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