

SAFE WATER FOR

Schools, Health Facilities, Workplaces and Community Settings



LifeStraw[®] 
Community | by VESTERGAARD

LifeStraw® Community is ideal for addressing safe water in:



SCHOOLS

- LifeStraw® Community is ideal for the safe drinking water component in school-based WASH programs
- Safe water in schools can reduce absenteeism by preventing children from getting waterborne disease
- Children can be strong advocates of safe water and hygiene at home when they learn it at school



HEALTH FACILITIES

- Safe drinking water is vital for health facilities for: administering medicines, hand washing facilities, safe handling and removal of feces, personal hygiene
- Millions of preventable infections occur every year within the healthcare environment because of inadequate attention to WASH



WORKPLACES

- Many workers do not have access to safe drinking water during work hours
- Workers that have access to safe water can experience increased productivity due to staying hydrated and remaining healthy
- Workers with access to safe water will also decrease their absences from work due to waterborne illnesses



COMMUNITY DINING SPACES

- Safe water improves nutrition as it prevents loss of vital nutrients due to diarrhea
- Safe water during meals helps to prevent stunted growth and malnutrition in children who are particularly vulnerable to waterborne illness
- Availability of safe water also contributes to economic development of the community, through increased productivity of workers, and income saved from avoidance of clinic expenditures

Introducing

LifeStraw®

Community | by VESTERGAARD

A high-volume, point-of-use community water purifier with built-in safe storage, which provides microbiologically safe drinking water for schools, health facilities, workplaces and community settings.

Protection:

- Hollow fibre filtration technology converts contaminated water into safe drinking water
- Removes bacteria, viruses and protozoan parasites

Capacity:

- 25 liter dirty water tank & 25 liter safe storage tank: total capacity of 50 liters
- Filtration rate: 12L/hour

Lifetime

- Can purify between 70,000 -100,000 litres of water, enough to serve community settings for several years*

Design Features

- No chemical treatment
- Made of durable plastic
- Doesn't require electrical power or batteries

* Based on a turbidity level of 4-5 NTU, under laboratory conditions.

**Chemical free filtration
prevents water-borne diseases:
diarrhea, typhoid, cholera,
worms, cryptosporidium**



CERTIFICATE OF QUALITY

Each shipment of LifeStraw® Community is accompanied by a Certificate of Quality (COQ). The COQ summarises quality control testing data, including antimicrobial efficacy and physio-chemical parameters for every batch or shipment of LifeStraw® Community. It is sent to the customer at the time of shipment.

Features

EFFECTIVE

Removes:

- 99.9999% of bacteria,
- 99.999 % of viruses and
- 99.99% of protozoan parasites
- Removes dirt and cloudiness, making water clear
- Meets highly protective category by World Health Organization
- Meets United States EPA drinking water standards
- Externally lab-tested

NO CHEMICALS

- Contains no chemical treatment
- No bad taste
- No strong odor
- Uses raw materials that meet US Food and Drug Administration regulations and standards

EASY-TO-USE

- Easy to operate
- No repeat intervention
- Requires no electrical power or batteries
- Requires no running water or piped water supply
- Easy-to-clean pre-filter and purification cartridge

LONG-LASTING

- Estimated lifetime filtration capacity of 70,000 -100,000 liters*
- Is sufficient to serve large groups of people for several years
- Designed for durability in difficult and hard-to-reach settings

SCALABLE

- Long-lasting, easy operation, requiring minimal training, scalable to underserved communities

* Based on a turbidity level of 4-5 NTU, under laboratory conditions.

How does the LifeStraw® Community work?

- 25 litres of untreated water is poured into the top of the unit, also called the dirty water container
- The pre-filter removes coarse particles larger than 0.080mm
- The ultrafiltration hollow-fibre membrane cartridge then stops all turbidity particles and pathogens larger than 20 nanometres (including bacteria, viruses and protozoan parasites). Particles and microbes larger than 20 nanometres stay on the dirty side of the membrane and clean/purified water passes through the membrane
- Purified water can be collected from any of the four taps
- The backwashing handle allows semi-automatic backwashing; when it is pulled down and released, pathogens and dust particles on the dirty side of the membrane are lifted by backpressure and then flushed out into the red backwash container



LifeStraw® Community technology and global standards

LifeStraw® Community Performance Standards:

- Meets the criteria of the “Highly Protective” category for microbiological performance specifications as defined in WHO’s 2011 ‘Evaluating Household Water Treatment Options: Health-based targets and microbiological performance options
- Complies with the US Environmental Protection Agency (EPA) 1987 Guide Standard and Protocol for Testing Microbiological Water Purifiers

Evaluating household water treatment options: Health-based targets and microbiological performance options (WHO, 2011)

TARGET	LOG ₁₀ REDUCTION REQUIRED: BACTERIA	LOG ₁₀ REDUCTION REQUIRED: VIRUSES	LOG ₁₀ REDUCTION REQUIRED: PROTOZOA	EXAMPLES
HIGHLY PROTECTIVE	≥ 4	≥ 5	≥ 4	ULTRAFILTRATION*, BOILING
PROTECTIVE	≥ 2	≥ 3	≥ 2	MICROFILTRATION, FLOCCULANT DISINFECTION
INTERIM	ACHIEVES “PROTECTIVE” TARGET FOR TWO CLASSES OF PATHOGENS AND RESULTS IN HEALTH GAINS			CHLORINE, CERAMIC, BIOSAND

*Lifestraw® Family 1.0, 2.0 and Community use ultrafiltration technology. Independent laboratory tests have confirmed they meet the category of “Highly protective.”



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