Bluewater

Emergency Station 1™

Introducing

Emergency Station 1™

Designed to help emergency response teams to rapidly provide a safe supply of water. It's a fully mobile reverse osmosis (RO) water purification system engineered for hydration in the toughest environments.

The Bluewater Emergency Station produces WHO-compliant potable water from local sources (surface water, brackish water or contaminated sources).

Capacity

Up to 1,000 L/hour.

Rapid set-up

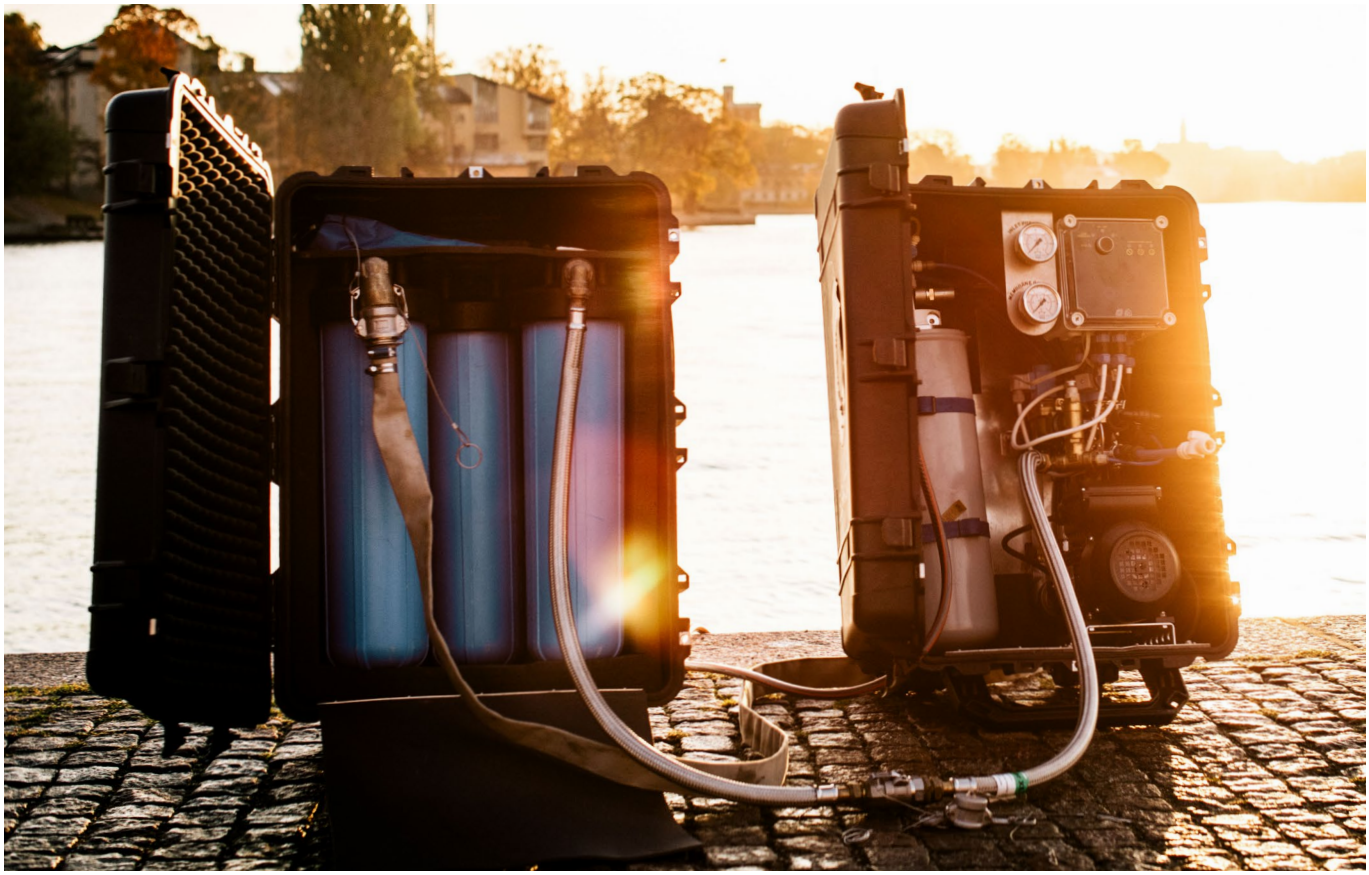
One person in under 15 minutes.

Safe and pure water

Purifies brackish and freshwater up to 99.7%.

Multi-stage filtration

Three-stage pre-filtration and high-pressure reverse osmosis membrane filtration.




Bluewater
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Bluewater
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How It Works – Case #1

Pre-Filtration

Case #1 collects raw water from a nearby source—like a river, lake, or tap. It runs the water through three powerful pre-filters, removing dirt and larger contaminants. The pre-filtered water is then sent directly to Case #2 for reverse osmosis purification.

Water Intake

Surface water, brackish water or contaminated sources.*

Pre-Filtration

Three robust filters remove large particles.

Continuous Flow

Pre-filtered water is transferred to Case #2.

*Submersible pump available as add-on.



How It Works – Case #2

Purification

Case #2 purifies the water. It houses the Purifier 16™, which removes up to 99.7% of all waterborne contaminants. A built-in pump powers the flow, and the sensors monitor the purification to provide a level of trust.

Purifier 16™ - RO membrane

Purifies the water, making it safe to drink.

Water Delivery

Pure water dispensed; reject water returned to source.

Monitoring

Optimal water quality and system efficiency.



Bluewater Purification

Powered by Purifier 16™

The Purifier 16™ is the world's most compact, efficient and powerful water purifier.

16.5 L

Flow per minute.*

80%

Recovery rate (up to).

99.7%

Purification (up to).

20 bar

Working pressure.



*200 ppm at 25 °C

	Bluewater Emergency Station 1™
Product facts and efficiency	
Purification degree (%)	Up to 99.7%
Purification technology	High-pressure reverse osmosis (RO) membrane filtration
Liters/minute	Up to 16.5 L*
Total weight	108 kg
Dimensions per bag	830 x 590 x 500 mm
Purifier 16™ membrane	1x230 / 1kW
Submersible pump	1x230 / 1kW (optional add-on)
Total power, kW	1kW (2kW)
CE-approved	Yes
Country of manufacture	Sweden
Number of membranes	1
Number of filters	3
Efficiency (%)	Up to 80%
Electrical connection	230V AC/50Hz 10A (16A)
Raw water requirements into Case #2	
Pressure	3-6 bar / 0.3-0.6 MPa
Flow rate	> 20 L/min
Conductivity at 25°C/ 77°F	< 26 000 µS/cm (13000 ppm)
Water temperature [°C]	2-32
Hardness	< 20 °dH
Iron Fe(II) [mg/l]	< 1,5
Iron Fe(III) [mg/l]	< 0,3
Turbidity [FNU]	< 0,5
Manganese (Mn^{2+}), mg/l	< 0,3
COD Mn: O_2, mg/l	< 5
Microbiological	
Heterotrophic bacteria, 48h	< 1000/mL
Coliform bacteria	< 10/mL
E. Coli	< 1/mL
Maintenance	
Filters	4-6 months**
Membrane	4-6 years**
	* Figure varies depending on water temperature & raw water quality. ** The lifetime of filters and membranes is affected by the quality of the raw water and the operating time of the equipment.

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