



# AquaTower Community Water Solution

**AquaTower** water filtration system provides communities, schools, and health centers access to clean and safe potable water. AquaTower solution supports the daily potable water requirements of over one million people in 1,100 communities across 14 countries.

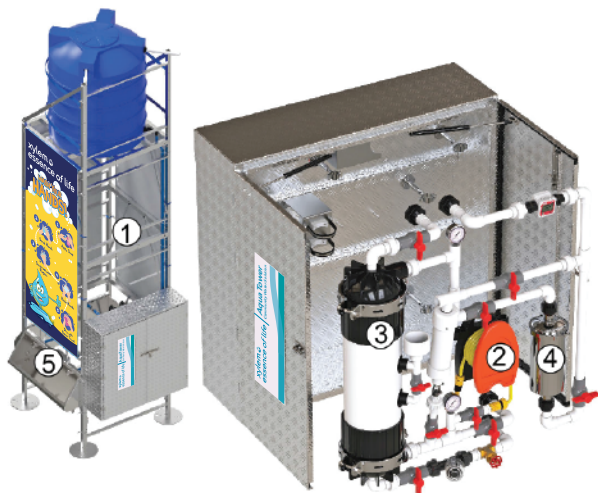
AquaTower build involves the following:

- Assembling and erecting water tower
- Installing water filtration system
- Installing accessories - drainage troughs, faucets, system plumbing, soap dispensers, and banners

## Features and Benefits

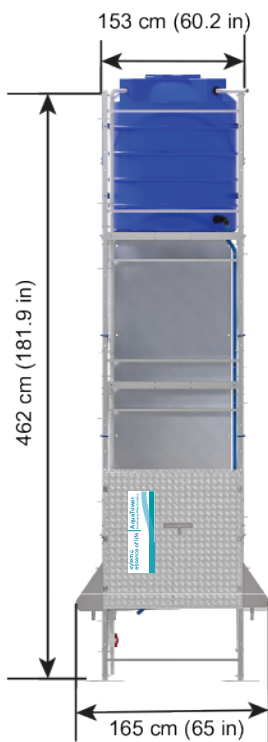
- A gravity-based filtration system that can operate without external power
- Two-stage water filtration incorporating ultrafiltration (UF) hollow fiber membrane technology and activated carbon for enhanced water quality with zero wastage
- Six drinking water access points with integral liquid soap dispensers for hand washing
- A very simple operation and maintenance process
- Produces 1,000 liters (264 gallons) of drinking water per hour - capable of supporting the daily drinking water requirements of up to 1,000 people
  - Designed and packaged for optimized logistics
  - 44 unit placement in a standard 40-foot shipping container
  - Compatibility with aircraft main cargo decks and lower cargo holds





1. Tower:
  - Extruded aluminum structure that is anodized to prevent surface oxidation
2. Wash hose:
  - Hose for rinsing the AquaTower and the surrounding area
3. Ultrafiltration (UF) filter:
  - Provides a filtration precision of 0.01 micron
  - Removes up to 99.99% of microbial pathogens, viruses, colloids, parasites, protozoa, and organic and inorganic molecules larger than 0.01 micron in size
4. Carbon filter:
  - Improve the taste, remove color and odor of the potable water.
5. Drainage troughs:
  - Non-rust, marine grade stainless steel drainage troughs with six faucets and three soap dispensers

## Dimensions



## Specifications

AquaTower dimensions (erected)	153 cm (5 ft) (W) x 165 cm (5.4 ft) (D) x 462 cm (15 ft) (H)
Filtration system enclosure dimensions	109 cm (3.6 ft) (W) x 42 cm (1.4 ft) (D) x 109 cm (3.6 ft) (H)
Tower structure material	Anodized aluminum
Filter enclosure material	Aluminium plate
Drainage trough material	Stainless steel, grade 316
Soap dispenser material	Stainless steel, grade 316
UF membrane material	Modified PVC
UF membrane fiber ID/OD dimension	1.0 mm (0.04 in) and 1.7 mm (0.07 in)
UF filtration precision	0.01 micron (100,000 daltons)
UF membrane area	12.5 sq m (134.5 sq ft)
Working pressure	0.3 bar (4.4 psi) to 2 bar (29 psi)
pH tolerance range	2 to 12
Designed water production flow	1000 L/hr (264 gal/hr)
Source water turbidity	≤ 15 NTU
Filtered water turbidity	< 0.5 NTU
Silt Density Index (SDI)	< 1.0
Microbial pathogen removal rate	up to 99.99%
Cleaning process	Chlorine liquid soak and manual air purge
Filtration modes	Basic (UF) or enhanced (UF+carbon) filtration
Electronic flow meter	Instantaneous and cumulative rates
Active carbon filter volume	1.2 kg (2.6 lbs)

For more information, visit us at our website [www.xylem.com/india](http://www.xylem.com/india) and for any sales, service and maintenance related support call our toll free no. 1800-572-XYLEM (99536) or write to us at [indiasales@xylem.com](mailto:indiasales@xylem.com); [indiaservice@xylem.com](mailto:indiaservice@xylem.com)

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