



# Potable Water Systems for Military Facilities

## Newterra Offers Scalable, Cost-Effective Systems For Potable Water Management



### Newterra Value Proposition

- Compact footprint
- No odour
- Scalable
- More discharge options
- Sound attenuation
- Packaged facility
- Operator-friendly
- Reuse-ready effluent



### Customer Need

Newterra is pioneering innovative decentralized potable water solutions that help you reduce project costs with a sustainable treatment approach. **Newterra modular systems meet the most stringent regulatory requirements** for potable water while also providing tremendous flexibility and cost deferment.

Specifically designed to protect water entering DFAC (Dining Facility), Watersafe I is designed to take the local water that meets potable water guidelines and treat it to meet strict guidelines, as set out in the Overseas Environmental Baseline Guidance Report DoD 4715.05-G. The water must always meet a minimum of 3-log removal and/or inactivation of *Giardia lamblia* cysts, 4-log removal and/or inactivation of viruses, and 2-log removal of *Cryptosporidium* oocysts. Of course, Watersafe I systems can also be used to treat the whole camp water supply or parts of it.

Watersafe II is designed to take near potable or non-potable water that has had preliminary filtration, and render potable water that meets the same guidelines as Watersafe I systems.

Watersafe Custom systems are designed specifically to meet more challenging applications, such as direct groundwater or surface water sources with no preliminary filtration or treatment. Watersafe Custom systems usually consist of a Watersafe II series system plus a pre-conditioning module.

Watersafe S/D modules are storage and delivery systems and depend on the storage capacity required and flow and pressure required for the camp. The tanks are fabricated from non corrosive materials and include pumping systems if required to deliver constant pressure water to the distribution system.

### The Newterra Solution

Newterra designs and manufactures compact potable systems that can be scaled up in phases as capacity requirements grow, and are prefabricated so they can be rapidly deployed, minimizing civil costs and on-site construction requirements.

### Differentiation

Newterra systems are:

- offer the **flexibility** to be configured as **fully self-contained units** including tankage, or as **hybrids** that combine prefabricated elements with inground tanks
- built to **high standards** as **permanent assets** with simplified maintenance requirements
- can **operate in extreme weather conditions**; wind and temperature
- Feature the convenience of **remote monitoring** and system control by Newterra or by your own operators
- **built with the operators in mind** as packaged treatment facilities; not just enclosures for equipment

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 **newterra**<sup>®</sup>  
clean water. modular solutions. *simple.*



# Decentralized Potable Water Treatment

## Potable Water Systems for Military Facilities

### Specifications

Series	Model	Nominal Capacity GPD	# 40' x 8' Containers	Storage/Dist Pumps Included
<b>Watersafe I</b>	NWSI-1	10,000	1	Yes
<b>Watersafe I</b>	WSI-1.5	15,000	1	Yes
<b>Watersafe I</b>	WSI-2	20,000	1	No, order Watersafe S/D
<b>Watersafe I</b>	WSI-3	30,000	1	No, order Watersafe S/D
<b>Watersafe I</b>	WSI-4	40,000	2	No, order Watersafe S/D
<b>Watersafe II</b>	WSII-1	10,000	1	Yes
<b>Watersafe II</b>	WSII-2	20,000	1	No, order Watersafe S/D
<b>Watersafe II</b>	WSII-3	30,000	2	No, order Watersafe S/D
<b>Watersafe II</b>	WSII-5	50,000	2	No, order Watersafe S/D
<b>Watersafe II</b>	WSII-7	70,000	2	No, order Watersafe S/D
<b>Watersafe I Custom</b>	Custom	1 MGD	TBD	Custom
<b>Watersafe II Custom</b>	Custom	1 MGD	TBD	Custom

### Watersafe I Technologies

- Inlet from pre-treated water source
- Sand or cartridge filtration
- UV and Chlorination
- Minimal operation required

### Watersafe II Technologies

- Inlet from raw or non-potable source
- Aeration to remove any Volatile Organic Compounds (VOC's)
- Optional Carbon Vessels to remove other organic compounds
- Suspended solids removal by membrane or multimedia filter
- Optional RO membrane treatment if Dissolved Solids are high
- UV and Chlorination
- Fully automated system, requires operator attention 2-3 days per week depending on size



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