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# ASPEN 1500RO DESIGN CRITERIA

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The ASPEN 1500RO Reverse Osmosis water purifying system supplies up to 1,500 gallons per day (50 to 60 Gallons an hour) of highly purified water from any contaminated fresh to brackish water source. Powered by any form of single phase AC, or, because of the highly efficient Aspen pumping system, will operate from 24 volt DC power directly from a military vehicle or even a small solar array.

**The ASPEN 1500RO** is a lightweight, highly mobile, completely self-contained water purification system with war fighter ready technology. The easiest to deploy, maintain, and monitor of any Military Reverse Osmosis purification system in existence. The Aspen **1500RO** includes robust pre-filtration and a redundant purification system (Reverse Osmosis and Ultra Violet Sterilization) providing the safest drinking water possible in all conditions.

**THE ASPEN 1500RO** unit operates from single phase in 90 to 260 volts AC in either 50/60 hertz, or from a 24/28 volt DC source (US/NATO vehicles) and will automatically recognize the varying power sources.

**THE ASPEN 1500RO IS SIMPLE TO OPERATE** using the most sophisticated automatic controller and electronic monitoring module available today, providing trouble free service no matter how demanding the environment. While other systems use gauges and require constant monitoring with repeated reference to an operating manual, a quick scroll through the Aspen digital display provides the operator with the exact status of the system at all

times. The controller constantly monitors product salinity and filter condition when in use, and indicates audibly and visually if service is needed. Automatic monitoring and safety shut down protocols allow for unsupervised operation.

## **THE ASPEN 1500RO IS RUGGIDIZED.**

The electronic controls are housed in a completely sealed, thermally controlled, and shock mounted enclosure made from the highest grade stainless steel and high tech non-corrosive lightweight aircraft alloys. These materials are used throughout the system. Strict design requirements and assembly procedures allow it to withstand the rigors of military use and harsh environmental exposure. Membranes are wound to meet higher than industry standards and provide extended use with less degradation and failure.

**DIMENSIONS:** The lightweight self-contained unit is 32"L X 27.25"H X 27"W with a dry weight of less than 200 pounds. The Aspen 1500RO comes with a Support Case containing hoses, consumables, and spares, which easily fit into a small vehicle.

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