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## Racor Village Marine Tec. Disaster Relief Water Purification Systems Overview



ENGINEERING YOUR SUCCESS.

# Purified Water for Disaster Relief

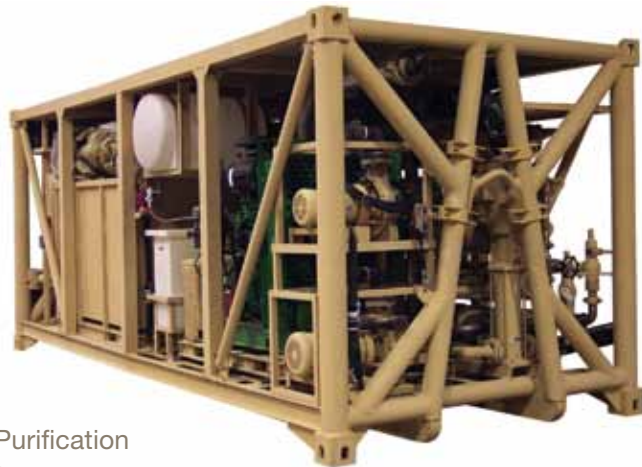


## Parker Racor - Village Marine Tec.

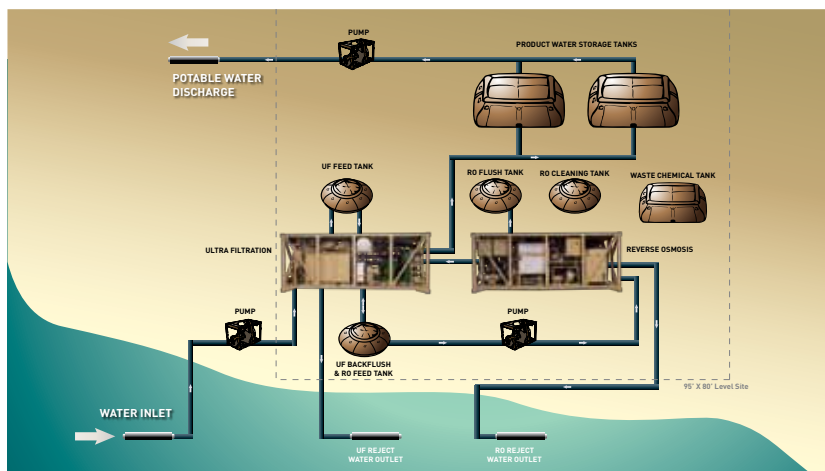
Parker Racor -Village Marine Tec. has been building reverse osmosis water purification systems for commercial and military applications since 1977.

### The Problem

- The need to supply potable water to people after a disaster.
- When disaster strikes, a clean water supply must be established as quickly as possible.
- The longer a population is without a clean water supply the higher the incidence of disease and other complications.
- Relief agencies struggle to supply clean water in a timely manner.
- In the past, the solution has been to truck in bottled water.
- One tanker truck can only supply 8000 gallons of water. It would take numerous trucks to supply a large population of water.
- Moving this amount of water is a resource intensive and costly task.



EUWP  
Water Purification  
System



- The operation of moving this large amount of water on highways is a poor use of a critical logistic resources.

The roads could be better used for other tasks in the resource constrained days following a disaster.

To maintain peak performance always use genuine Parker-Racor/Village Marine Tec. replacement parts.  
We reserve the right to change our specifications or standards without notice.

## The Solution

Provide water when and where it is needed.

Parker Racor Village Marine Tec. has provided disaster relief units to NASA (part of FEMA), EPA, US Navy, US Department of Interior, and the US Army.

### What makes these units unique is:

- Ease of deployment
- Self-contained power supply
- Simple operation
- Air and truck transportable
- Ruggedly built to withstand the harsh environment typical of a disaster situation.

### What is available from Parker:

- 200 to 250,000 gallons (.75 m<sup>3</sup> to 950 m<sup>3</sup>) per day systems.
- The smallest system comes in a back-pack format
- Larger systems are contained in standard ISO size shipping containers for easy transport on via Semi-trailer or C-130 airplane.

### Racor disaster relief units can effectively treat:

- Seawater and fresh water contaminated with nuclear, biological, chemical agents.



### Example: The Expeditionary Unit Water Purifier (EUWP)

- The EUWP is capable of producing 100,000 gallons (380 m<sup>3</sup>) per day from any water source using the most advance the technology of water purification.
  - The primary goals for the EUWP system were ease of deployment, mobility, and logistics support. The focus is on technology that reduces system energy consumption, size and weight leading to the reduction in the cost-per-gallon to purify water while improving water distribution capabilities.
- The EUWP has been used in the following disaster relief scenarios:
- **Hurricane Katrina Relief at Biloxi, MS and Pascagoula, MS and the USCG Station at Port Clarence, Alaska**
  - **Native American Reservation in Washington**



## Summary

The Parker Racor Village Marine Tec. reverse osmosis systems have proven to be a flexible and capable platform

providing potable water to communities and hospitals in tough environments globally.

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