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



ENGINEERING YOUR SUCCESS.

# Purified Water for Disaster Relief

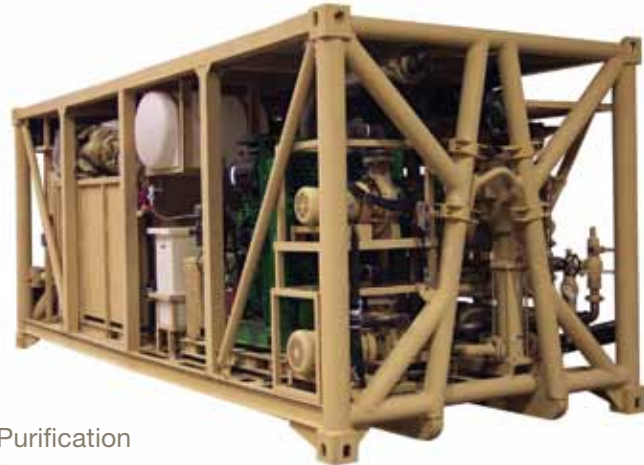


## Parker Racor - Village Marine Tec.

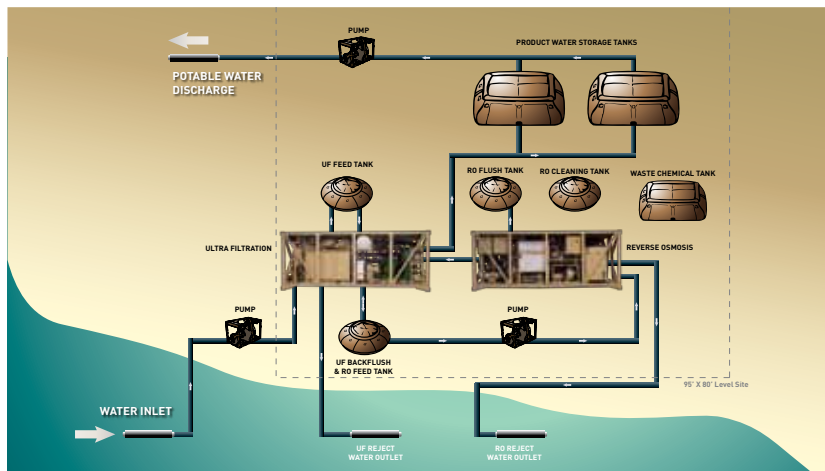
Parker Racor -Village Marine Tec. has been building reverse osmosis water purification systems for commercial and military applications since 1977.

### 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.

Parker Hannifin Corporation  
**Filtration Group**  
**Global Headquarters**  
 6035 Parkland Boulevard  
 Cleveland, OH 44124-4141  
 T 216 896 3000, F 216 896 4021  
[www.parker.com](http://www.parker.com)

**North America**  
**Compressed Air Treatment**  
**Filtration & Separation/Balston**  
 242 Neck Road  
 Haverhill, MA 01835-0723  
 T 978 858 0505, F 978 858 0625  
[www.parker.com/balston](http://www.parker.com/balston)

**Filtration & Separation/Finite**  
 500 Glaspie Street, PO. Box 599  
 Oxford, MI 48371-5132  
 T 248 628 6400, F 248 628 1850  
[www.parker.com/finitefilter](http://www.parker.com/finitefilter)

**Purification, Dehydration and Filtration Division**  
 4087 Walden Avenue  
 Lancaster, NY 14086  
 T 716 685 4040, F 716 685 1010  
[www.airtek.com](http://www.airtek.com)

Sales Office  
 5900-B Northwoods Parkway  
 Charlotte, NC 28269  
 T 704 921 9303, F 704 921 1960  
[www.domnickhunter.com](http://www.domnickhunter.com)

**Engine Filtration & Water Purification**

**Racor**  
 3400 Finch Road, PO Box 3208  
 Modesto, CA 95353  
 T 209 521 7860, F 209 529 3278  
[www.parker.com/racor](http://www.parker.com/racor)

**Racor**  
 850 North West St., PO Box 6030  
 Holly Springs, MS 38635  
 T 662 252 2656, F 662 274 2118  
[www.parker.com/racor](http://www.parker.com/racor)

**Racor**  
 302 Parker Drive  
 Beaufort, SC 29906  
 T 843 846 3200, F 843 846 3230  
[www.parker.com/racor](http://www.parker.com/racor)

**Racor -- Village Marine Tec.**  
 2000 West 135th Street  
 Gardena, CA 90249  
 T 310 516 9911, F 310 538 3048  
[www.villagemarine.com](http://www.villagemarine.com)

**Hydraulic Filtration**  
**Hydraulic Filter**  
 16810 Fulton County Road #2  
 Metamora, OH 43540-9714  
 T 419 644 4311, F 419 644 6205  
[www.parker.com/hydraulicfilter](http://www.parker.com/hydraulicfilter)

**Process Filtration**  
**Process Advanced Filtration**  
 2340 Eastman Avenue  
 Oxnard, CA 93030  
 T 805 604 3400, F 805 604 3401  
[www.parker.com/processfiltration](http://www.parker.com/processfiltration)

**Europe**  
**Compressed Air Treatment**  
**Domnick Hunter Industrial**  
 Dukesway, Team Valley Trading Estate  
 Gateshead, Tyne & Wear  
 England NE11 OPZ  
 T +44 (0) 191 402 9000  
 F +44 (0) 191 482 6296  
[www.domnickhunter.com](http://www.domnickhunter.com)

**Hiross Zander**  
**Padova Business Unit**  
 Strada Zona Industriale 4  
 35020 S. Angelo di Piove Padova, Italy  
 T +39 049 9712 111, F +39 049 9701 911  
[www.dh-hiross.com](http://www.dh-hiross.com)

**Hiross Zander**  
**Essen Business Unit**  
 Zander Aufbereitungstechnik GmbH  
 Im Teelbruch 118  
 D-45219 Essen, Germany  
 T +49 2054 9340, F +49 2054 934164  
[www.zander.de](http://www.zander.de)

**Parker Gas Separations**  
 Oude Kerkstraat 4  
 P. O. Box 258  
 4870 AG Etten- Leur, Netherlands  
 T +31 76 508 5300, F +31 76 508 5333

**Engine Filtration & Water Purification**

**Racor**  
 Shaw Cross Business Park  
 Churwell Vale Dewsbury,  
 WF12 7RD England  
 T +44 (0) 1924 487000,  
 F +44 (0) 1924 487038  
[www.parker.com/rfde](http://www.parker.com/rfde)

**Racor Research & Development**  
 Parker Hannifin GmbH & Co KG  
 Inselstrasse 3 – 5  
 70327 Stuttgart Germany  
 T +49 (0)711 7071 290-0,  
 F +49 (0)711 7071 290 -70  
[www.parker.com/racor](http://www.parker.com/racor)

**Hydraulic Filtration**  
**Hydraulic Filter**  
 Stieltjesweg 8, 6827 BV  
 P.O. Box 5008 6802 EA  
 Arnhem, Holland  
 T +31 26 3760376, F +31 26 3643620  
[www.parker.com/eurofilt](http://www.parker.com/eurofilt)

**Ujala Operation**  
 Salmentie 260  
 31700 Ujala as Finland  
 T +358 20 753 2500, F +358 20 753 2501  
[www.parker.com/fi](http://www.parker.com/fi)

**Condition Monitoring Center**  
 Brunel Way Thetford,  
 Norfolk IP 24 1HP England  
 T +44 1842 763299, F +44 1842 756300  
[www.parker.com/cmc](http://www.parker.com/cmc)

**Process Filtration**  
**Domnick Hunter Process**  
 Durham Road, Birtley Co. Durham,  
 DH3 2SF England  
 T +44 (0) 191 410 5121,  
 F +44 (0) 191 410 5312  
[www.domnickhunter.com](http://www.domnickhunter.com)

**Asia Pacific**  
**Australia**  
 9 Carrington Road, Castle Hill  
 NSW 2154, Australia  
 T +61 2 9634 777, F +61 2 9899 6184  
[www.parker.com/australia](http://www.parker.com/australia)

**China**  
 280 YunQiao Road  
 JinQiao Export Processing Zone  
 Shanghai 101206 China  
 T +86 21 5031 2525, F +86 21 5834 3714  
[www.parker.com/china](http://www.parker.com/china)

**India**  
 Plot EL 26, MIDC, TTC Industrial Area  
 Mahape, Navi Mumbai 400 709 India  
 T +91 22 5613 7081, 82, 83, 84, 85  
 F +91 22 2768 6618 6841  
[www.parker.com/india](http://www.parker.com/india)

**Japan**  
 626, Totsuka-cho, Totsuka-ku  
 Yokohama-shi, 244-0003 Japan  
 T +81 45 870 1522, F +81 45 864 5305  
[www.parker.com/japan](http://www.parker.com/japan)

**Korea**  
 1-C Block, Industrial Complex of Jangan,  
 615-1, Geumui-Ri Jangan-Myeon,  
 Hwaseong-City Gyeonggi-Do, Korea  
 T +82 31 359 0771, F +82 31 359 0770  
[www.parker.com/korea](http://www.parker.com/korea)

**Singapore**  
 11, Fourth Chin Bee Road  
 Singapore 619 702  
 T +65 6887 6300, F +65 6261 4929  
[www.parker.com/singapore](http://www.parker.com/singapore)

**Thailand**  
 1023 3rd Floor, TPS Building  
 Pattanakam Road, Suanluang,  
 Bangkok 10250 Thailand  
 T +66 2717 8140, F +66 2717 8148  
[www.parker.com/thailand](http://www.parker.com/thailand)

**Latin America**  
**Parker Comercio Ltda.**  
**Filtration Division**  
 Estrada Municipal Joel de Paula  
 900 Eugenio de Melo,  
 Sao Jose dos Campos  
 CEP 12225-390 SP Brazil  
 T +55 12 4009 3500, F +55 12 4009 3529  
[www.parker.com/br](http://www.parker.com/br)

**Pan American Division - Miami**  
 7400 NW 19th Street, Suite A  
 Miami, FL 33128  
 T 305 470 8800 F 305 470 8808  
[www.parker.com/panam](http://www.parker.com/panam)

**Africa**  
**Parker Hannifin Africa Pty Ltd**  
 Parker Place, 10 Berne Avenue,  
 Aeroport Kempton Park,  
 1620 South Africa  
 T +27 11 9610700, F +27 11 3927213  
[www.parker.com/eu](http://www.parker.com/eu)

