

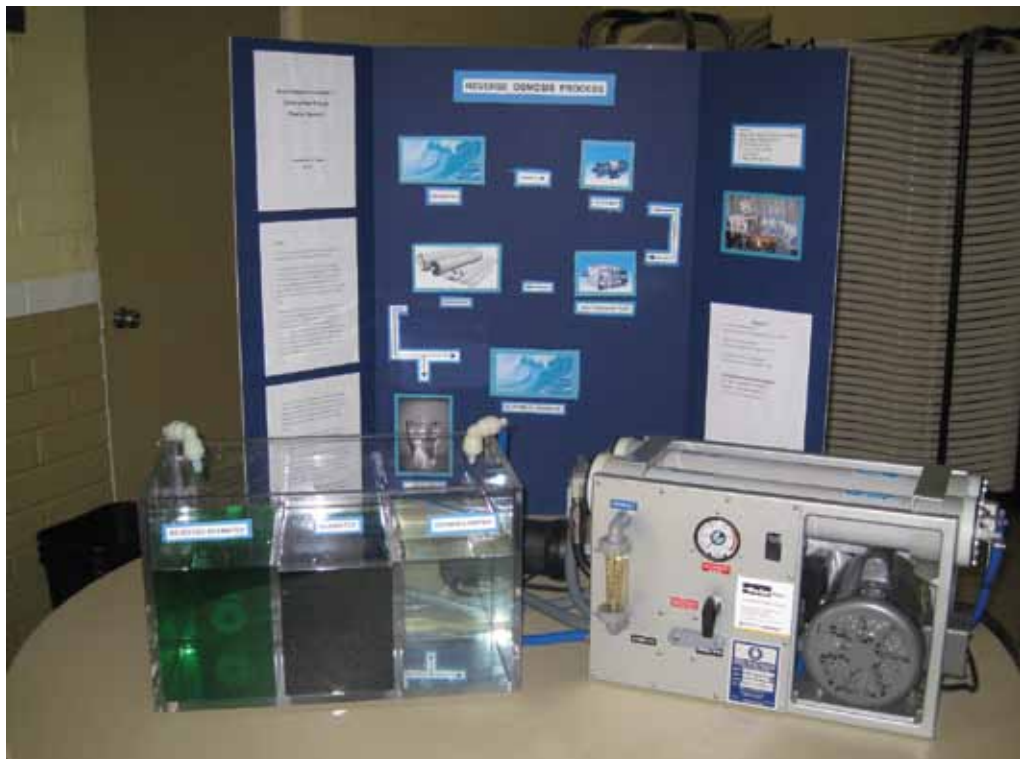
# School Science Fair Project Sea Quencher Reverse Osmosis Watermaker

Technical Application Publication



Racor Village Marine Tec. educates students (and parents)

Racor VMT Sea Quencher 200 was on display at St. Therese Science Fair, in Alhambra, California. Each year the school's science department puts together a science fair. The school has grades K-8 and each class requires the students to submit a project based on their grade level. It is encouraged to think outside of the box and be creative.



## Contact Information: Simulate Process:

Parker Hannifin Corporation  
Filtration Group  
**Racor Division - Village Marine Tec.**  
2000 West 135th Street  
Gardena, CA 90249

phone 310 516 9911  
fax 310 538 3048

[www.villagemarine.com](http://www.villagemarine.com)  
[www.parker.com/racor](http://www.parker.com/racor)

When setting up the equipment Mrs. Jarrous, the science teacher let on he was familiar with desalination and very interested in the project. Not only did the display we simulate the process of converting salt water to drinking water, but we could visibly show it with the use of food coloring. The students and

parents could see how it worked. The main requirement for science fair projects is that students understand how their entry works. When asked by her teacher and other parents, Yamila was able to confidently describe how it worked. The feedback from parents in attendance was very encouraging and positive.

See Racor VMT MAP number 7946 for more on our demonstration tank.



ENGINEERING YOUR SUCCESS.

# Sea Quencher Reverse Osmosis Watermaker Makes the Grade:

Racor VMT distributor salesman Barry Evans from Harbor Diesel in Long Beach, CA was interested in supporting his daughter by offering some exciting technology and a cool display for her upcoming fair. Barry said, "I came up with the idea of presenting a reverse osmosis watermaker. What better way to give my daughter a better understanding of what I do at work and teach her about reverse osmosis.

Not only was it educational for her, but it also gave me a better understanding of the RO process. In searching the internet for additional information for her we found other areas where reverse osmosis is used. She was able

to learn more about reverse osmosis by reading articles found on the internet."



Model	Part Number	Water Production GPH/LPH	Power Supply Volts/Amps	Frame Size WxDxH inch/cm	Weight lbs/kg
SQ-145	90-8564 90-8623	6/22	12 VDC/13 24 VDC/7	24/61 x 11/28 x 12/30	70/32
SQ-200	90-8549 90-8260 90-8561 90-8550	8/30	12 VDC/17 24 VDC/9 110 VAC 60Hz/6 220 VAC 50Hz/3.3	24/61 x 11/28 x 12/30	72/33

## Spares and Consumables

Part No.	Description	Part No.	Description
85-0050	Pump Oil, Quart	33-3001	Membrane Element LW, LWV, SQ-200
33-0117	Prefilter Element, 5 micron	33-3002	Membrane Element LWM-200
33-0311	Flush Filter Element	90-2512	Membrane O-Ring Kit
90-0005	Filter Housing O-Ring	85-0102	Cleaning Kit
99-6881	Filter Wrench	85-0103	Preservation Kit
70-6181	HP Pump Service Kit	70-0036	Belt, Models 145 and LWV-200*
33-3000	Membrane Element Models 145	70-0168	Belt, Models 200 except LWV-200*

\* For 24 VDC units read number on belt or measure belt and contact factory.

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.

