

## D #1077 Desalinated Seawater

### **Application: Removal of mineral components from saline water**

The application is for desalination of seawater. To achieve this; the seawater is exposed to low pressure (vacuum) which results in the release of vapors which later transform and condense back to water. The inlet seawater temperature ranges between 23 °C and 28 °C. The customer pre heats the incoming seawater to 50 -55 °C. The pre heated seawater is routed to a vacuum chamber. Inside the vacuum chamber the water is exposed to low pressure and starts vaporizing, the vapors are routed to another location to undergo the next transformation. The heat exchanger will preheat the seawater prior to it's entry into the vacuum chamber.

### **Solution**

- Shell & Tube Heat Exchanger
- Model # 00486-14, 54 series
- All components 316L Stainless Steel

### **Features & Benefits**

- Heat Transfer Area 13.66 ft<sup>2</sup>
- Tube Length: 40"
- Tube Count: 127
- Tube Side Fitting: 1 ¼ " NPT Female
- Shell Side Fitting: 1" NPT Female



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#### **How to contact Exergy**

Please call 1-516-832-9300  
or visit [www.exergyllc.com](http://www.exergyllc.com)  
to locate your local rep.