

# HRO SF 170 & 350 Mini Water-Maker Specification



**Product Water Produced per hour of operation:**  
+-15% 850 psi / 56 Bar, 77°F / 25°C & 35,000 ppm TDS typical sea water

Model	Production Per Hour	Production Per 24 Hours
	U.S. Gallons / liters	U.S. Gallons / liters
Mini 170	7 / 26.8	170 / 644
Mini 350	14.6 / 55.2	350 / 1,325

**Salt Rejection (Chloride Ion):**  
Minimum 99.2%, Average 99.4%

**Product Water Temperature:**  
Ambient to feed water temperature.

**Salinity Monitoring:**  
Automatic computer controlled electronic monitoring. Temperature compensated with the Water Quality Indicator. The salinity monitoring components of the system give a continuous readout in micromhos per cubic centimeter, are temperature compensated and of a fail-safe design.

**Salinity Range:**  
Seawater use up to 50,000 ppm TDS (NaCl)  
(typical seawater salinity is 35,000 ppm.)

**Temperature Range:**  
Min. 33°F / .5°C Max. 122°F / 50°C

**Reverse Osmosis Membrane:**  
**TYPE:** Specifically selected High Rejection / High Yield aromatic tri-polyamid, thin film composite, spiral wound, single pass reverse osmosis membrane element.

**Chlorine Tolerance:**  
0.1 ppm

**pH Range:**  
3-11 (typical seawater pH is 8)

**System Pressure:**

**Feed Water:** Minimum: 2 psi / .14 bar / .14 Kg/cm<sup>2</sup>  
Maximum: 30 psi / 2.07 bar / 2.11 Kg/cm<sup>2</sup>

# HRO SF 170 & 350 Mini Water-Maker Specification



**Operation:** Seawater @ 35,000 ppm & 77° F / 25 C  
Nominal: 850 psi / 58.6 bar / 59.76 Kg/cm<sup>2</sup>. (Brackish varies w/ppm)

<b>Weight:</b>	
<b>Model Number</b>	<b>Weight</b>
Seafari Mini 170	70 lbs / 32 Kg
Seafari Mini 350	105 lbs / 47.6 Kg

### External Installation Water Connections:

Pipe sizes to be supplied by the installer for connection of the Horizon Reverse Osmosis supplied components.

#### Seafari Mini 170

**Feed Inlet:** 1/2" MNPT Male National Pipe Thread U.S. Standard  
**Brine Discharge:** 1/2" MNPT Male National Pipe Thread U.S. Standard  
**Product:** 1/4" FNPT Female National Pipe Thread U.S. Standard

#### Seafari Mini 350

**Feed Inlet:** 1/2" MNPT Male National Pipe Thread U.S. Standard  
**Brine Discharge:** 1/2" MNPT Male National Pipe Thread U.S. Standard  
**Product:** 1/4" FNPT Female National Pipe Thread U.S. Standard

### Recommended Circuit Breaker Amperage Rating:

Seafari Mini 170

<b>Operating Voltage</b>	<b>Rec. Circuit Breaker</b>
12 VDC	40 Amps
24 VDC	20 Amps
115 VAC	10 Amps
230 VAC	10 Amps

Seafari Mini 350

<b>Operating Voltage</b>	<b>Rec. Circuit Breaker</b>
115 VAC	25-30 Amps
230 VAC	15 Amps