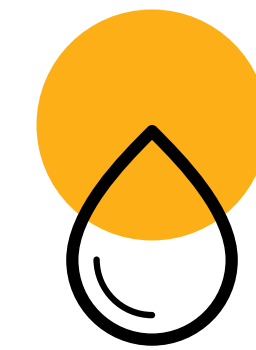


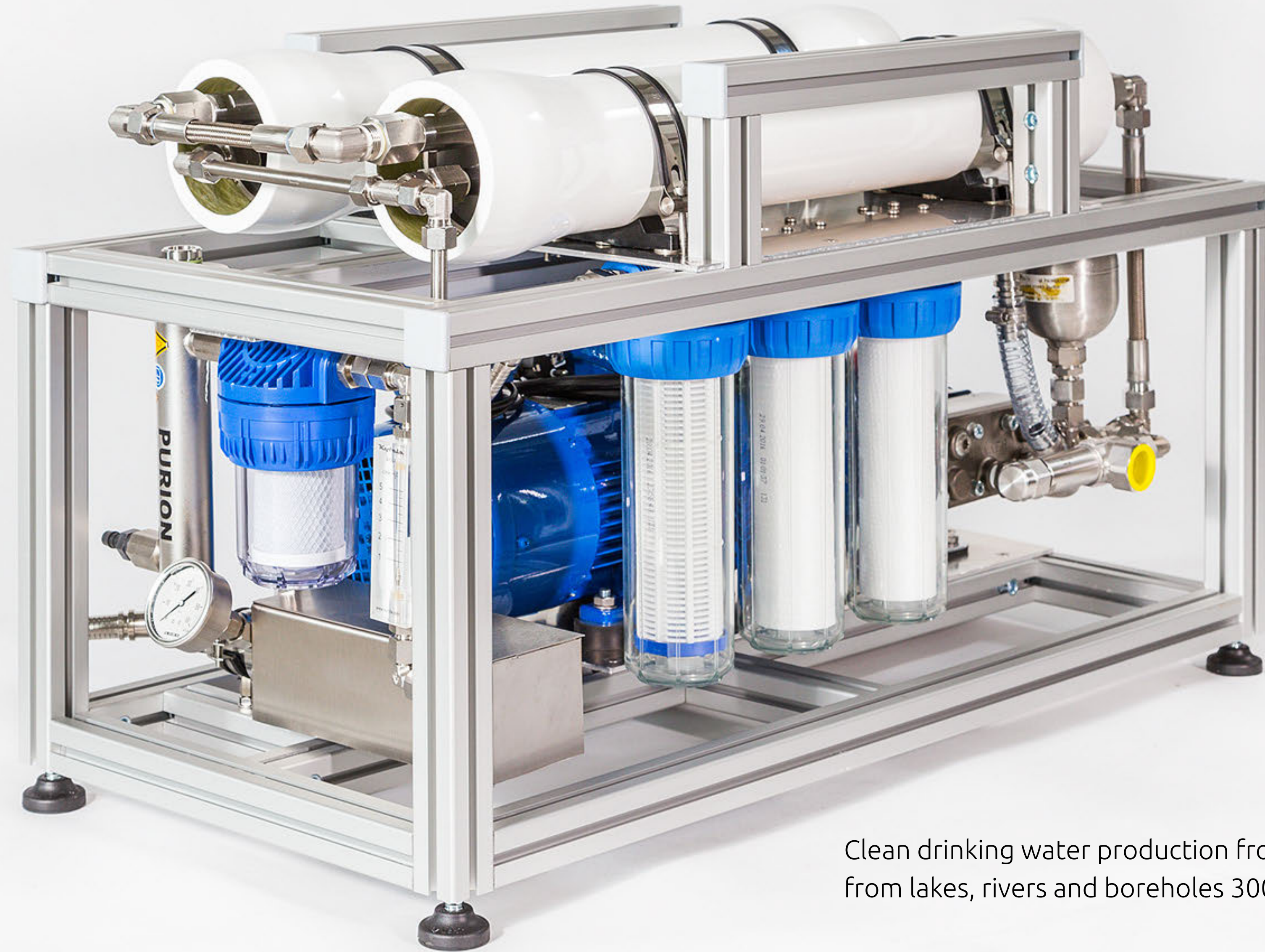


Clean quality drinking water from seawater, lakes, rivers and boreholes using solar energy.

Designed for demanding island and desert conditions.



**SolarRO PRO 300**



Clean drinking water production from the sea 150 litres/hour,  
from lakes, rivers and boreholes 300 litres/hour.

Self-sufficient and affordable drinking water supply.

Operating costs reduced up to 90%.



### **Sustainable and cost-effective drinking water in off-grid locations**

The SolarRO Pro 300 operates 100% with solar energy without any fossil fuels or expensive batteries. The payback period is 2-4 years only by saving the fuel costs.

Ideal for houses and small villages in off-grid locations. Self-sufficient water production for drinking, showering and irrigation. The unit is mobile and easy to relocate. The power source can be easily switched to an electrical grid or a diesel generator as a back-up system during non-solar hours.

### **Easy to operate with low maintenance**

The SolarRO Pro 300 is easy to install with solar panels, generator or electrical grid. Depending on user case, the pre-treatment filters should be changed 2-4 times per year. We recommend changing the membranes every two years.

The pump is self-priming and runs up to 6,000 hours without any maintenance. It can run dry without damage. All components are very easy to replace.

### **Safe and durable solution**

In our products, we only use the best-quality components combined with the most modern technological solutions.

In our systems, we use reverse osmosis (RO) technology. All impurities, bacteria, viruses and other contaminants are removed, leaving only high-quality water as the end product. UV disinfection is used at the end of the purification process.

Product research and testing have been done in close collaboration with Aalto University in Finland.

### **Your benefits:**

- Operates 100% with solar energy
- Competitive investment cost – no batteries or energy storage needed
- Operational costs reduced up to 90%
- Easy to install, plug & play system
- The system can run dry
- Fully automatic system
- Lightweight, compact and mobile
- Self-priming pump (up to 3 m)
- Low maintenance
- Low energy consumption
- No chemicals used
- Weatherproof
- Designed, built and tested in Finland
- Fully CE compliant

SOLAR WATER SOLUTIONS

# SolarRO PRO 300



EASY-TO-USE – ECO-FRIENDLY – AFFORDABLE

Feed water type	<b>Lake/ Well</b>	<b>Brackish water</b>
Tested average permeate flow	300 L/hr	200L/hr
Feed water TDS mg/L	<2.000TDS	<10.000TDS

<p>Salt Rejection</p> <p>Motor</p> <p>Pump</p> <p>System pressure</p> <p>Pressure Vessels</p> <p>Membranes</p> <p>RO tubing</p> <p>Prefilters</p> <p><b>Permeate post treatment:</b></p> <p>Active carbon filter</p> <p>Ultra violet lamp</p> <p>Ultraviolet lamp rated life</p>	<p>99,40 %</p> <p>0,5 kW; 230/400VAC, 50Hz</p> <p>RO high pressure pump feed max. 11 LPM</p> <p>17bar</p> <p>4021 / 300psi or 600psi</p> <p>4 x 4021 BW</p> <p>SS 316L</p> <p>3 x 10" (100µm, 25µm, 5µm)</p> <p>5"/ ionide 800</p> <p>400 J/m2</p> <p>10 000 h</p>	<p><b>Product water:</b></p> <p>Water (permeate) quality</p> <p><b>Power Supply:</b></p> <p>Solar PV panels needed</p> <p>Solar Inverter</p> <p><b>Alternative/ Back-up power supply:</b></p> <p>1-phase AC supply</p> <p>3-phase AC supply</p> <p><b>Dimensions and weight:</b></p> <p>RO Unit Stand</p> <p>Weight</p> <p>Warranty</p>	<p>pH 6.5 -8.5; TDS &lt; 270 mg/L; UV disinfected</p> <p>≈ 6 x a 250Wp</p> <p>1.5kW</p> <p>200 to 240VAC</p> <p>200 to 240VAC or 380 480VAC</p> <p>Length 100cm x Width 48cm x Height 47cm</p> <p>87kg</p> <p>2 Years (filters &amp; membranes not under warranty)</p>
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<p><b>Optional equipment &amp; accessories:</b></p>	<ul style="list-style-type: none"> <li>- Submersible pump</li> <li>- Feed water supply pump</li> <li>- Feed water hose 20m or 50m</li> <li>- Water storage tanks for permeate</li> </ul>	<ul style="list-style-type: none"> <li>- PV panel package + inverter according to customer requirements</li> <li>- Filtration maintenance package (3 pcs PPT filters + 1 pc membrane)</li> <li>- UV-steriliser maintenance package</li> </ul>
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# SolarRO PRO 300

# Seawater

EASY-TO-USE – ECO-FRIENDLY – AFFORDABLE

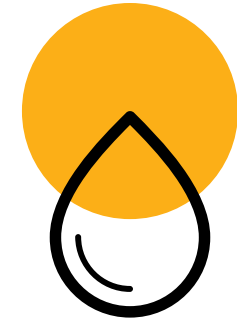
	<b>Pacific Ocean</b>	<b>Atlantic</b>	<b>Mediterranean</b>	<b>Arabic Gulf</b>
Feed water type				
Tested average permeate flow	150L/hr	132L/hr	110L/hr	100L/hr
Feed water TDS mg/L	<33.000TDS	<36.000TDS	<39.000TDS	<45.000TDS

Salt Rejection	99,40 %		<b>Product water:</b> Water (permeate) quality	pH 6.5 -8.5; TDS < 270 mg/L; UV disinfected
Motor	1,5 kW; 230/400VAC, 50Hz			
Pump	RO high pressure pump feed max. 11 LPM			
System pressure	51bar		<b>Power Supply:</b> Solar PV panels needed	≈ 10 x á 250Wp
Pressure Vessels	4021 / 1000psi		Solar Inverter	1.5kW
Membranes	2 x 4021 SW			
RO tubing	SS 316L		<b>Alternative/ Back-up power supply:</b> 1-phase AC supply	200 to 240VAC
Prefilters	3 x 10" (100µm, 25µm, 5µm)		3-phase AC supply	200 to 240VAC or 380 480VAC
<b>Permeate post treatment:</b>				
Active carbon filter	5"/ ionide 800		<b>Dimensions and weight:</b> RO Unit Stand	Length 100cm x Width 48cm x Height 47cm
Ultra violet lamp	400 J/m2		Weight	97kg
Ultraviolet lamp rated life	10 000 h		Warranty	2 Years (filters & membranes not under warranty)

## Optional equipment & accessories:

- Submersible pump
- Feed water supply pump
- Feed water hose 20m or 50m
- Water storage tanks for permeate

- PV panel package + inverter according to customer requirements
- Filtration maintenance package (3 pcs PPT filters + 1 pc membrane)
- UV-steriliser maintenance package



## SolarRO PRO 300

Manufacturer: **Solar Water Solutions Oy**

Contact details and distributors. See more at: [www.solarwatersolutions.fi](http://www.solarwatersolutions.fi)

