



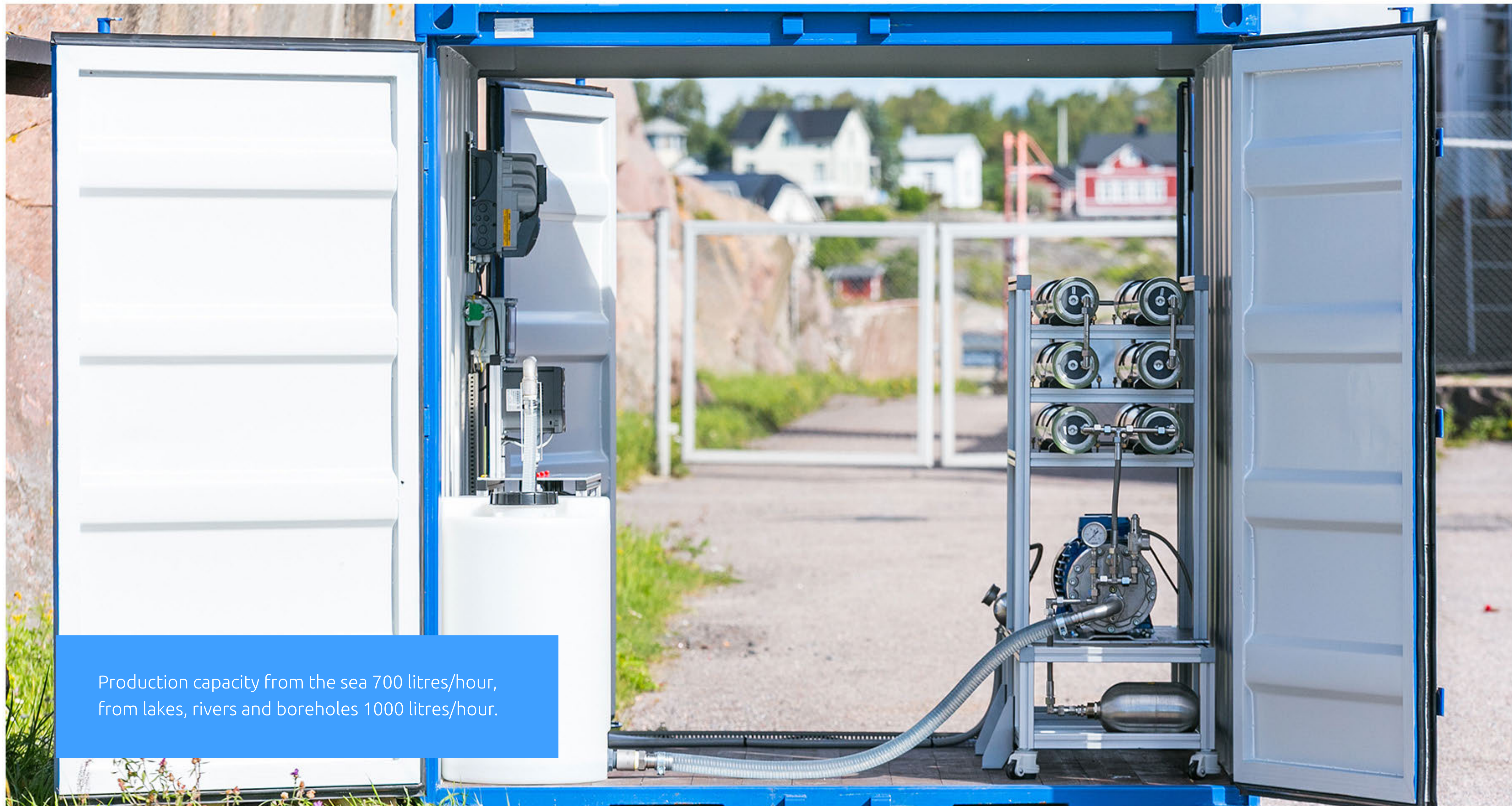
Clean quality drinking water from sea water, lakes, rivers and boreholes using solar energy.

Designed for demanding island and desert conditions.



**SolarRO PRO 1000**





Production capacity from the sea 700 litres/hour,  
from lakes, rivers and boreholes 1000 litres/hour.



Self-sufficient and affordable drinking water supply.

Operating costs reduced up to 90%.



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

The SolarRO Pro 1000 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, small businesses and 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 1000 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 3m)
- Low maintenance
- Low energy consumption
- No chemicals used
- Weather proof
- Designed, built and tested in Finland

SOLAR WATER SOLUTIONS

# SolarRO PRO 1000



EASY-TO-USE – ECO-FRIENDLY – AFFORDABLE

	<b>Brackish water</b>	<b>Pacific Ocean</b>	<b>Atlantic</b>	<b>Mediterranean</b>	<b>Arabian Gulf</b>
Feed water type					
Tested average permeate flow	<b>1000 L/hr</b>	<b>750L/hr</b>	<b>700L/hr</b>	<b>650L/hr</b>	<b>560L/hr</b>
Feed water TDS mg/L	<10.000TDS	<33.000TDS	<36.000TDS	<39.000TDS	<45.000TDS

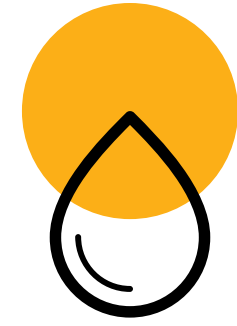
Salt Rejection	99,40 %			
Motor	3 kW; 400VAC, 50Hz			
Pump	RO high pressure pump feed max. 30 LPM			
System pressure	17bar - 51bar			
Pressure Vessels	4040 / 600psi or 1000psi			
Membranes	4 x 4040 BW or 4040 SW			
RO tubing	SS 316L			
Prefilters	3 x 20" (100µm, 25µm, 5µm)			
<b>Permeate post treatment:</b>				
Ultra violet lamp	400 J/m2			
Ultraviolet lamp rated life	10 000 h			
			<b>Product water:</b> Water (permeate) quality	pH 6.5 -8.5; TDS < 270 mg/L; UV disinfected
			<b>Power Supply:</b> Solar PV panels needed Solar Inverter Alternative/ Back-up power supply: 3-phase AC supply	≈ 18 x á 250Wp 3kW  200 to 240VAC or 380 480VAC
			<b>Dimensions and weight:</b> RO Unit Stand Warranty	Length 158cm x Width 50cm x Height 84cm 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 1000

Manufacturer: **Solar Water Solutions Oy**

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

