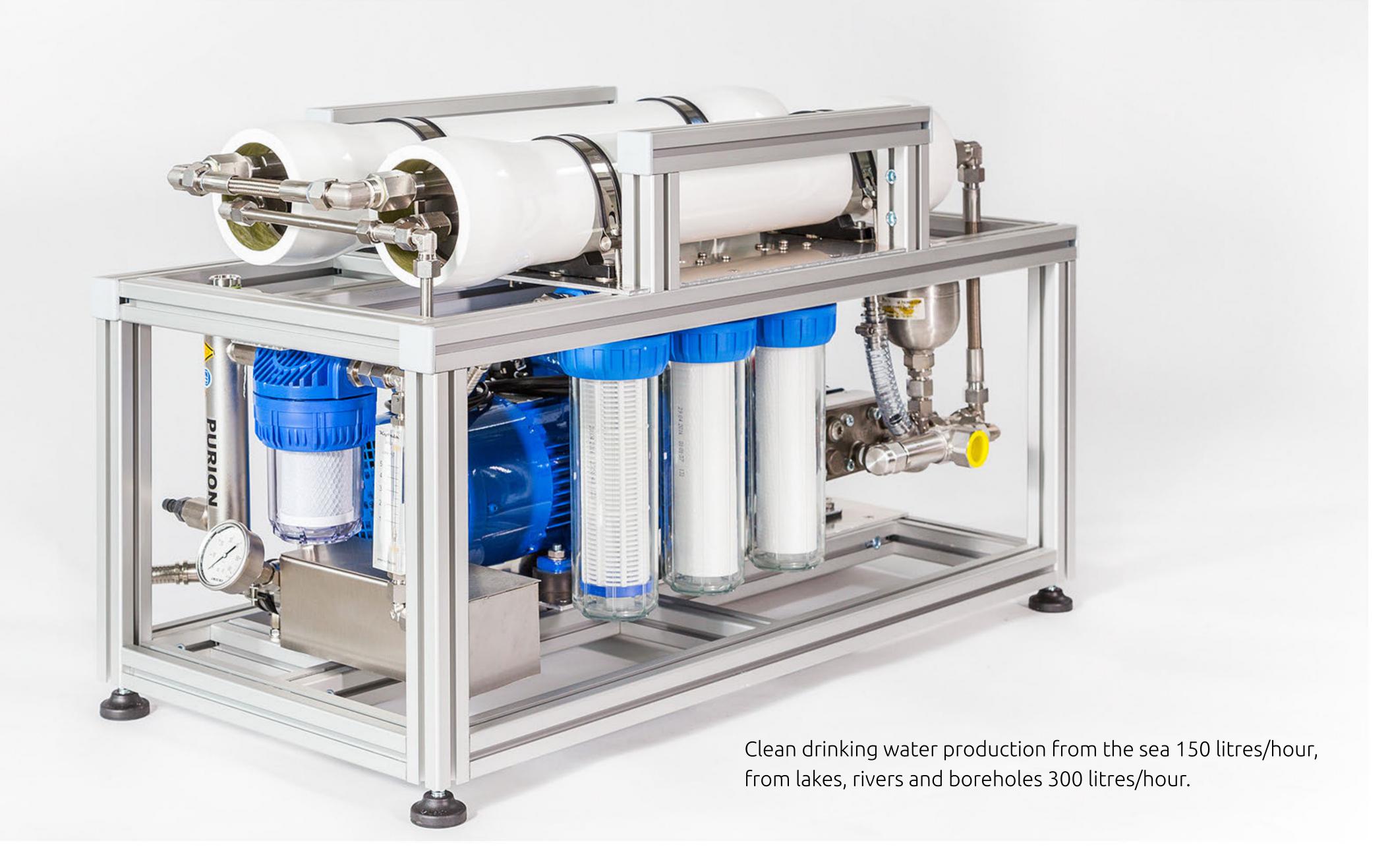


Clean quality drinking water from seawater, lakes, rivers and boreholes using solar energy.

Designed for demanding island and desert conditions.





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

SolarRO PRO 300



Feed water type

Tested average permeate flow

Feed water TDS mg/L

Lake/ Well Brackish water

<8.000TDS

300 L/hr 200L/hr

Salt Rejection

Motor

Pump

System pressure

Pressure Vessels

Membranes

RO tubing

Prefilters

Permeate post treatment:

Active carbon filter
Ultra violet lamp

Ultraviolet lamp's rated life

99,40 %

<2.000TDS

0,5 kW; 230/400VAC, 50Hz

RO high pressure pump feed max. 11 LPM

17bar

4021 / 1000psi

2 x 4021 SW

SS 316L

3 x 10" (100μm, 25μm, 5μm)

5"/ ionide 800

400 J/m2

10 000 h

Product water:

Water (permeate) quality

Power Supply:

Solar PV panels needed

Solar Inverter

Alternative/ Back-up power supply:

1-phase AC supply 200 to 240VAC

3-phase AC supply 200 to 240VAC or 380 480VAC

Dimensions and weight:

RO Unit Stand Length 100cm x Width 48cm x Height 47cm

Weight 87kg

Warranty 2 Years (filters & membranes not under warranty)

≈ 10 x á 250Wp

1.5kW

pH 6.5 -8.5; TDS < 270 mg/L; UV disinfected

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 Seawater ~~~

EASY-TO-USE – ECO-FRIENDLY – AFFORDABLE

Feed water type	Brackish water	Pacific Ocean	Atlantic	Mediterranenan	Arabic Gulf
Tested average permeate flow	250 L/hr	150L/hr	132L/hr	110L/hr	100L/hr
Feed water TDS mg/L	<20.000TDS	<33.000TDS	<36.000TDS	<39.000TDS	<45.000TDS

Salt Rejection

Motor

Pump

System pressure

Pressure Vessels

Membranes

RO tubing

Prefilters

Permeate post treatment:

Active carbon filter Ultra violet lamp

Ultraviolet lamp's rated life

99,40 %

1,5 kW; 230/400VAC, 50Hz

RO high pressure pump feed max. 11 LPM

51bar

4021 / 1000psi

2 x 4021 SW

SS 316L

3 x 10" (100μm, 25μm, 5μm)

5"/ ionide 800 400 J/m2

10 000 h

Product water:

Water (permeate) quality

Power Supply:

Solar PV panels needed

Solar Inverter

Alternative/ Back-up power supply:

1-phase AC supply

3-phase AC supply

Dimensions and weight:

RO Unit Stand

Weight Warranty

pH 6.5 -8.5; TDS < 270 mg/L; UV disinfected

≈ 10 x á 250Wp

1.5kW

200 to 240VAC

200 to 240VAC or 380 480VAC

Length 100cm x Width 48cm x Height 47cm

97kg

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



Manufacturer: Solar Water Solutions Oy

