

SolarWave desalination unit DS1200+



The **SolarWave DS1200+** is a high-end water purification system for brackish water with a nominal production capacity of 1,200 l/h. Based on the principles of reverse osmosis and ultraviolet light, it effectively removes all bacteria, viruses, algae, fungi, and parasites as well as dissolved and suspended solids, in accordance with the WHO guidelines for drinking-water quality.

The SolarWave DS1200+ is very easy to use and only a minimum of installation work required.

The unit is equipped with an efficient two pretreatment filter package that effectively removes sediment from the intake water in order to maximize the efficiency and extend the service intervals of the reversed osmosis and UV treatment units.

After purification, the water passes through a post-treatment step that adds necessary minerals to the water.

The DS1200+ is built for long life. Only high quality parts are used. The system has undergone rigorous performance tests to ensure full functionality in harsh environments such as elevated ambient temperature and humidity.



DS1200+ back view

Technical specifications DS1200+

Electrical connection	3 phase 380-415 V / 50 Hz
Overall power consumption (nominal*)	3.0 kW
UV lamp power	48 W
Water treatment capacity (nominal*)	1,200 liters per hour
Weight (empty)	280 kg
Dimensions (LxWxH)	1,500 mm x 800 mm x 1,500 mm
Recommended max ambient temperature	55 °C
Operating pressure	1,500 kPa
Pretreatment filter 1	20 µm cotton (single use)
Pretreatment filter 2	5 µm cotton (single use)
Post-treatment filter	Mineralizing cartridge (single use)

* Depending on various parameters such as length of hoses, water temperature, etc. The nominal capacity is 1,200 l/h at a water temperature of 15 °C.

Feed water recommendations SolarWave DS1200+

Conductivity (max)	14,000 µS/cm
Salinity (max)	8 ‰
Iron (max)	0.2 ppm
Manganese (max)	0.05 ppm
Hardness (max)	7 gpg (120 mg/l)
Turbidity (max)	5,000 NTU
pH	3–11
Inlet pressure	2–8 bar
Temperature	0–55 °C

Recommended maintenance SolarWave DS1200+

Component	Interval	Action
Filters	As needed *	Clean/replace
RO membrane	Daily	Thorough flush
RO membrane	Bi-annually	Thorough cleaning with citric acid
UV lamp	Once every year	Replace
Quartz sleeve	Bi-annually	Clean with citric acid
Potable water tanks	Monthly	Thorough cleaning using Sodium hypochlorite solution

* Depending on the quality of the raw water.

Optional

In case of existing inlet pressure below 2 bars, a pre-pump can be supplied.