



Solvatten is

1. Cost-efficient
2. Durable
3. Direct



Solvatten® - Solar Safe Water System, SSWS-10

Definition	Household solar water treatment and solar water heater system
Ready to ship	2 days. Sold on pallet holding 72 units. 800 in stock.
Local purchase advice	In some countries Solvatten is present locally (please contact info@solvatten.se for more info)
HS codes	<u>8421.21.20</u> /8421.21 water purifier, or 8419.19.10 water heater
Packaging	Wooden pallet
Gross weight	216 kg
Volume	1.74 m ³
Dimensions	80 x 120 x 219 cm

Description

Solvatten® is a highly efficient water purifier that treats water from bacteria, cysts, and viruses. Solvatten is designed to heat water and to supply safe drinking water for a family for more than 7 years without maintenance costs or changing parts, no need for added chemicals or use of electricity or batteries.

Highly cost efficient at a life cycle cost of € 0,001/liter.

Specifications

- Capacity

- 10 litre, 49 x 36 x 13 cm. 2,4 kg
- A minimum time of 2h of solar-exposure to reach safe water. A special designed indicator showing a red unhappy face when not ready and a green happy face when the water is safe.
- Maximum daily capacity 40 liters/day
- Solvatten will treat 5 000 -10 000 litres per year in sunny conditions.
- Solvatten will treat 42 000-100 000 litres of water during its lifetime (7 years or more) if used in sunny conditions and well kept.

- Treatment efficiency

Using UV-A and UV-B radiation and thermal heating with the direct sunlight.

- Bacteria removal 99.99999, Log 7 reduction.
- Cyst removal >99.999, >Log 5 reduction
- Virus removal >99.999, >Log 5 reduction

Treatment is in accordance with US EPA Guide Standard for Water Purifiers which are equivalent to WHO guidelines for safe drinking water under section "*Highly Protective Technology*".

Energy efficiency

- Solvatten is a non electrical water heater, heating the water to 55°C every time the indicator switches. Maximum temperature 75°C if exposed longer time in the sun. Solvatten is designed to insulate and also store heated water.
- Maximum thermal efficiency captured : 400-450 kWh/year

Climate protective solution

- Carbon emission reduced compared to boiling water with fuelwood to make it safe is in average 1,5 tonnes/year and 10 tonnes per lifetime use.

Practical instruction specifications

- An indicator-ring at the center of the transparent surface and its shadow will help to adjust to position the unit a perpendicular angle toward the sun.
- The shadow from the indicator-ring is also an indicator for turbidity. If water is too turbid the shadow will not be seen.
- At the inlet openings(with the black sealing caps) there is a fine mesh textile filter that reduces the turbidity with app. 35%. The filter can be replaced with a local fine mesh textile cloth in a couple of layers.
- The white outlet capsules are equipped with a pressure release valve, to provide protection against over pressure.
- All Solvatten has an instruction pasted on the backside as well as an instruction poster included(translated to swahili, urdu, creole etc.)

Material Certifications

- The unit is made of plastic materials which are durable to heat and UV resistant and UV transparent. The materials used in SOLVATTEN® are FDA-certified and recyclable. SOLVATTEN® is manufactured in Sweden in compliance with ISO 14001 and ISO/TS 16949 (Environmental and Quality certified). Environmental Footprint Reference: LCA Master Thesis by KTH/The Royal Swedish Technical University 2011.

Maintenance requirements

For maintenance requirements please refer to the training and instruction materials supplied with the unit.

Caution (1.1) 2016

Rinse the Solvatten® units and the filters with water before first use. Do not wash the filters in dishwasher. Reduce the risk of becoming sick by following attached safety instructions. Improper use of Solvatten® is a risk of exposure to harmful microorganisms and increase your risk of gastrointestinal illness. Exposure to harmful microorganisms may increase your risk of gastrointestinal illness. Never use Solvatten® to filter seawater or chemical contaminated water, including water from mining tailing ponds or from near large agricultural operations.

Disclaimer (1.2) 2016

Read the usage and safety instructions carefully before using Solvatten®. Solvatten® is a water treatment tool and should only be used for water treatment and heating. The quality of treated water is not guaranteed if the product is submitted to conditions other than those encountered during its normal use. Solvatten AB and its affiliated entities and related companies shall be neither liable for any damages arising out of or as a result of

the use of Solvatten® for any purpose other than for which it is clearly intended, nor for any malfunction resulting from the failure of the user of Solvatten® to strictly abide by the usage and safety information contained in the instructions and user manual.

Stated microbiological and longevity performance of Solvatten® is conditioned under standard laboratory test conditions, (BioVir Lab, Cal US, 2014), and meets US EPA drinking water standards. Solvatten is a highly protective technology treating contaminated water for both bacteria, virus and protozoa's. 99,99999% for E-coli. 99,999% for rotavirus, 99,999% for cryptosporidium.

The effectiveness of Solvatten® may be limited by environmental or hygiene conditions that could contribute to the recontamination of water after it has been treated according to the instructions. These conditions include but are not limited to: • Using water from Solvatten® with dirty and bacterial contaminated hands. • Storage of treated water in contaminated containers. • Treatment of water with high turbidity (> 40NTU) without pre-filtering the water. By using Solvatten®, you tacitly accept and agree to the term and conditions of the user instructions and the Disclaimer (1.2) 2016.

Warranty and Liability for defects

Solvatten AB's liability is limited to manufacturing defects, which appear within a period of 12 months from delivery. The Buyer shall without undue delay notify the Solvatten AB of any defect which appears. Such notice shall under no circumstances be given later than two weeks after the expiry of the period given above. The Buyer shall provide detailed documentation of the manufacturing defects in form and extent satisfactory to Solvatten AB. Defective parts or units of Solvatten® shall upon request by Solvatten AB be made available to Solvatten AB for inspection. Solvatten AB shall, in case of defects notified to Solvatten AB as provided herein, as sole remedy make new parts or if required new units of Solvatten® available Ex Works Örkelljunga (Incoterms 2000). All defective parts and units, which have been replaced, shall be the property of Solvatten AB. Please retain your purchase receipt as proof of date purchased.

Trademarks and Patents

Solvatten® is a registered trademark of Solvatten AB Sweden. The Solvatten® unit and the indicator are protected under a number of patents. Patent registrations include Sweden, China, India, US, EPO, PCT. The company Solvatten AB (Ltd), Sweden produces the SOLVATTEN® Solar Safe Water System (SSWS-10 unit including the SVI-10 indicator).

Milestones and Recognitions

2018 Selected To National Museum Collection of Swedish Design Objects

2018 Solvatten Exhibited at Swedish Embassy Washington, USA

2017 Queen Silvia of Sweden grants support to Solvatten project

2017 Keynote speaker G7 Future For Girls Forum

2017 Keynote at World Forum for Responsible Economy

2017 EU Prize for Woman Inovators

2017 Approved Solvatten patent in India

2016 Winner of ISNTD International society for Neglected Tropical Diseases
2016 Winner of ELLE Award
2016 Registration of Solvatten USA.
2015 Winner Momentum For Change Award by UN Climate Change Secretariat, UNFCCC.
2015- Winner of the Swedish Technician of the year Award
2015- Social Entrepreneur of the Year Mid Sweden University.
2015- Winner Swedish Woman of the Year 2015. SWEA International.
2013- Meeting President Obama at the request of the White House
2013- Launch of Solvatten Charitable Foundation
2013- Winner of Polhems Prize.
2013- Nordic Environment Council Nominee.
2013- Winner Energy Globe Award Mali.
2012- Winner, the Soroptimist, Sweden.
2012- Winner, DesignNu. Industry Design Award, Sweden.
2011- Winner at the International Green Award, UK.
2011- Winner of the SACC, Deloitte Green Award, USA.
2011- Winner of Swedish Änglamark Prize, Sweden.
2010- UN Founded project launched in Kenya and Mali
2010 - Ramping up production capacity
2009- Winner of WWF Climate Solver, Sweden
2009- Receiver of King Carl XVI Gustaf's 50 years Foundation, Sweden
2009- Establishing Solvatten Africa in Nairobi
2008- Winner of the Nobel's SKAPA Award, Sweden
2007- First demo projects in Nepal and Tanzania
2006- Beginning of Solvatten

About us:

We work in partnership with global and local companies, organisations, foundations and governments to make safe, hot water available to millions of people.

Solvatten is a Swedish social enterprise with base in Stockholm that produce and sell Solvatten® Solar Safe Water System's and projects to customers, charities and distributors around the world. We work together with organisations and institutions that believes in the power of inovation for sustainable development in order to make sure that every one should have access to safe, hot water at home.

Collaborations and Partnerships

PLAN International, International Aid Services, UNICEF, NRC, SOS Children's Villages, UNFCCC, OXFAM, UN Habitat, WWF, SIDA, EXPORT RÅDET, AMREF, Child Fund, ALMI, LIONs Sweden, SLU, KTH, Uppsala University VINNOVA, WHO, VI Agroforestry, IVL, My climate, IEW Kenya, Ministry of Environment Haiti, Kopernik, Svenska Kyrkan, LWF, Tillväxtverket, PhilMedAlliance, Impact Carbon, U&We, CHAIN Uganda, ECO ARKI Peru, Urban Way, RINCOD, Rotary and many more.



Pease contact us for more information!

Petra Wadström
CEO Solvatten AB
Roslagsgatan 56,
113 54 Stockholm

petra.wadstrom@solvatten.se

tel; +467772905
mobile; +46709253601

www.solvatten.org