

# TR SEAWATER / BRACKISH CONTAINER

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Mobile and independent container solution for disaster relief,  
remote communities and desert areas.  
Powered by renewable energy.



## SOLAR POWERED, INDEPENDENT UNIT



During a disaster situation fuel will be scarce and hard to transport. The TR Seawater / Brackish Container (TSC / TBC) will produce thousands of gallons of potable water efficiently without the need to re-supply fuel for large generator sets.



### Mobile unit, easy for installation

Thanks to the design, the brackish container can be commissioned without complex or time-consuming assembling/dissassembling and the unit can be taken into operation within hours. The solar panels are folded down and/or stored in a specially designed structure on the container.



### No sand, no dirt, no heat problems

The container housing protects all components from dirt and dust. TR Seawater / Brackish Container has been designed for the harshest desert conditions with all of the equipment installed in a sealed, lockable and secure container that is air conditioned to protect the water treatment system and electronic controls.



### High quality components = low operation costs

TR Water Systems and Spectra Watermakers are committed to high quality components that are reliable and long-lasting. The RO-system consists of eight membranes and is equipped with a special and proprietary Pearson pump (energy recovery pump) in order to significantly reduce the power consumption.

#### Applications

- disaster relief (earth quake, flooding)
- larger community
- desert area

#### Optional features

- 48 VDC Air Conditioning
- Monitoring system
- UV-lamp
- post chlorination





# TSC 100 / TBC

## SEAWATER / BRACKISH CONTAINER 100

The TR seawater / brackish water container TSC 100 / TBC 100 is complete and ready to deploy. It provides approx. 600 l (159 gallons) resp. 1'400 l (370 gallons) of potable water per hour from any salt / brackish water source. The system is complete with feed pump, automatic back flushing filtration and controls. Two energy efficient Reverse Osmosis systems remove dissolved solids (salt, anorganic contamination etc.) as well as virus and bacteria without requiring toxic chemical treatment.



	SALT WATER (TSC 100)	BRACKISH WATER (TBC 100)
Dimensions (L x W x H)	2300 x 2300 x 2200 mm	2300 x 2300 x 2200 mm
Weight	2500 kg (5511 lbs)	2500 kg (5511 lbs)
Filtration Technology	Reverse Osmosis (RO)	Reverse Osmosis (RO)
Raw Water Source	sea	well, lake, borhole
Contamination	organic and inorganic contamination salinity up to TDS 35'000 mg/l	organic and inorganic contamination salinity up to TDS 12'000 mg/l
Quality of produced water	potable water	potable water
Application / Installation	mobile or permanent installation	mobile or permanent installation
Capacity	max. 600 l/h (159 gallons/h)	max. 1400 l/h (370 gallons/h)
Prefilter with automatic back flushing system	2x 100 micron, 4x 25 micron, 2x 5 micron	2x 100 micron, 4x 25 micron, 2x 5 micron
Membranes, 8 pc.	Reverse Osmosis (seawater)	Brackish Reverse Osmosis
Activated carbon filter, 20 micron	1 pc.	1 pc.
Energy supply / solar capacity	3360 W	3360 W
Energy consumption unit	2.0 kWh	2.0 kWh
Energy consumption incl. borehole pump	2.7 kWh	2.7 kWh
VRLA-Batteries, 12V - 200 AH/Battery	24 pc.	24 pc.
Power connection optional	Generator Wind generator	Generator Wind generator
Controls	digital	digital
Feed pump, 2 pc.	max. 1000 l/h (264 gallons/h) (each)	max. 1000 l/h (264 gallons/h) (each)
Feed pump pressure	6 bar	6 bar
Tube package	20 meter	20 meter
min./max. water temperature	0/45° C	0/45° C
min./max. air temperature	-10/60° C (with AC)	-10/60° C (with AC)
Optional features	48 VDC Air Conditioning Monitoring UV-lamp Post chlorination	48 VDC Air Conditioning Monitoring UV-lamp Post chlorination



## OTHER MOBILE APPLICATIONS



**TBC 100:** solar powered brackish water container located in the desert, Abu Dhabi 2009



**TSS 200:** treatment of brackish water incl. wind generator in the desert of Abu Dhabi, 2010



**TWS 200:** soft water treatment at the demonstration facility in Mexico, 2009



**TWS 200:** treatment of organically contaminated river water (Nile) in Khartoum, Sudan 2009



**TSS 200:** desalination of sea water, military Training camp near Santiago, Chile 2008



**TWS 200:** bottling of drinking water, Pakistan 2005 after the earthquake

