

TRUNZ CONTAINER UNITS

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



SOLAR POWERED, INDEPENDENT UNIT

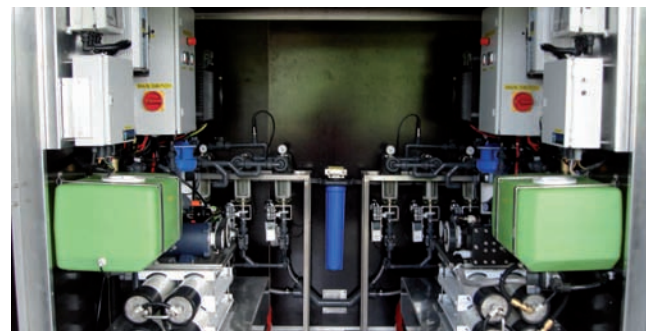


During a disaster situation fuel will be scarce and hard to transport. The Trunz Container Units can produce thousands of litres of potable water efficiently without the need to re-supply fuel for large generator sets.



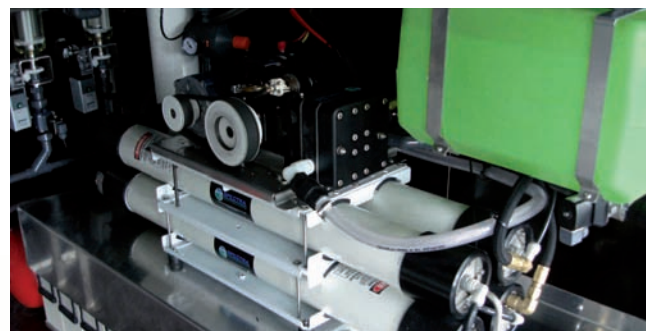
Mobile unit, easy for installation

Thanks to the design, the containers can be commissioned without complex or time-consuming assembling/ disassembling and the unit is operational within a few 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. Trunz Container Units have been designed for the harshest desert conditions with all of the equipment installed in a sealed, lockable and secure container that is air conditioned if required to protect the water treatment system and electronic controls.



High quality components = low operation costs

Trunz Water Systems is 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
- sandfilter

TSC / TBC / TWC

TRUNZ SEAWATER / BRACKISH / WATER CONTAINER

The Trunz Container Units TSC / TBC / TWC are complete and ready to deploy. It provides approx. 1,600 l (422 gallons), resp. 5,000 l (1,321 gallons) of potable water per hour from any salt / brackish or fresh water source. The system is complete with feed pump, automatic back flushing filtration and controls. Reverse Osmosis systems or Ultrafiltration membranes remove dissolved solids (salt, anorganic contamination etc.) as well as virus and bacteria without requiring toxic chemical treatment.



	SALT WATER (TSC)	BRACKISH WATER (TBC)	FRESH WATER (TWC)
Dimensions (L x W x H)	2300 x 2300 x 2200 mm	2300 x 2300 x 2200 mm	2300 x 2300 x 2200 mm
Weight	2500 kg (5511 lbs)	2500 kg (5511 lbs)	2500 kg (5511 lbs)
Filtration Technology	Reverse Osmosis (RO)	Reverse Osmosis (RO)	Ultrafiltration (UF)
Raw Water Source	seawater	well, lake, river, borehole	well, lake, river, borehole
Contamination	organic and inorganic contamination, salinity up to TDS 40'000 mg/l	organic and inorganic contamination, salinity up to TDS 18'000 mg/l	organic contamination
Quality of produced water	potable water	potable water	potable water
Application / Installation	mobile or local installation	mobile or local installation	mobile or local installation
Capacity	max. 1600 l/h (422 gallons/h)	max. 1600 l/h (422 gallons/h)	max. 5000 l/h (1'321 gallons/h)
Prefilter with automatic back flushing system	2x 100 micron, 4x 50 micron, 4x 5 micron	2x 100 micron, 4x 50 micron, 4x 5 micron	4x 100 micron
Activated carbon filter, 20 micron	1 pc.	1 pc.	2 pc.
Energy supply / solar capacity	customized	customized	customized
Power consumption unit	3.2 kW	1.5 kW	0.2 kW
Power consumption incl. borehole pump	4 kW	2.2 kW	1.5 kW
VRLA-Batteries	24x 12V - 180 AH/Battery	24x 12V - 180 AH/Battery	24x 12V - 180 AH/Battery
Power connection	Solar, 48 VDC	Solar, 48 VDC	Solar, 48 VDC
Controls	digital	digital	digital
Feed pump, 2 pc. (each)	1 x 7500 l/h (1981 gallons/h)	1 x 4000 l/h (1056 gallons/h)	2 x 3000 l/h (793 gallons/h)
Feed pump pressure	6 bar	6 bar	6 bar
Tube package	20 meter	20 meter	20 meter
min./max. water temperature	0/45° C	0/45° C	0/45° C
min./max. air temperature	-10/60° C (with AC)	-10/60° C (with AC)	-10/60° C (with AC)
Optional features	48 VDC Air Conditioning Monitoring Disinfection Inverter 48 VDC/230 VAC Battery charger 230 VAC/110 VAC Wind generator Sandfilter	48 VDC Air Conditioning Monitoring Disinfection Inverter 48 VDC/230 VAC Battery charger 230 VAC/110 VAC Wind generator Sandfilter	48 VDC Air Conditioning Monitoring Disinfection Inverter 48 VDC/230 VAC Battery charger 230 VAC/110 VAC Wind generator Sandfilter
Certificates	FDA - 21 OFR 177.2550 ISO 9001:2008	FDA - 21 OFR 177.2550 ISO 9001:2008	NSF/ANSI 61 KTW TÜV - EN ISO 9001:2008

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



Integrated container solution for fresh water (customer design)



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



TWS 200: treatment of organically contaminated borehole water in the Children's Village Diani, Kenya 2010



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

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