

# TRUNZ WATER TRAILER

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Mobile, independent unit for disaster relief & military application.



## 4 STEPS TO PROVIDE CLEAN DRINKING WATER



### 1 Location

Thanks to the mobile and independent Trunz Water Trailer the water treatment unit is easy to move and relocate from one location to another.



### 2 Installation

Installation and start up procedure takes only about half an hour: setting up the solar panels, placing the feed pump, checking the controls. The unit is complete and no on-site assembly is required.



### 3 Operation and maintenance

The unit provides clean drinking water after a few minutes. The system works with an extremely low energy consumption of approx. 350 W/h. The unit requires only low maintenance and is easy to operate. Local staff can perform all necessary maintenance checks and installation of spare parts.



### 4 Technology

The Trunz Water Trailer is equipped with 2 automatic backflushing prefilters for larger particles and a selfcleaning ultrafiltration membrane (or a Reverse Osmosis system for sea/brackish water). All filters initiate automatic backflushing cycles - no replacement of filters required. The product water is 99.9999 % free of viruses.

## COMPLETE SYSTEM - READY TO PROVIDE CLEAN DRINKING WATER WITHIN MINUTES

- independent and mobile
- extremely fast installation
- works quietly
- very low energy consumption
- without ongoing fuel costs
- certified filtration system
- minimal maintenance requirements
- product water meets WHO standards

## FACTS, FIGURES & COMPONENTS

The Trunz Water Trailer is equipped with a solar powered TWS 300 water treatment system or a TSS 300/TBS 300 desalination system. It is complete and ready to deploy. It provides approx. 250 - 1200 l of potable water per hour from any water source. Powered by solar and/or wind energy, it can run up to 24 hours a day without ongoing fuel and fuel transportation costs. The system is complete with trailer, feed pump, automatic back flushing filtration, batteries,

solar panels and controls. An Ultrafiltration membrane removes all viruses and bacteria without requiring toxic chemical treatment. Alternatively we supply a Reverse Osmosis-System for brackish or saltwater. The Trunz Water Trailer is specially designed to work under harsh conditions and is ideal for disaster relief, military camps and supply during temporary drinking water shortage. The system is very compact, easy to install and to maintain.

## TRUNZ WATER TRAILER

	FRESHWATER (TWS 300)	SALT WATER (TSS 300) / BRACKISH WATER (TBS 300)
Trailer dimensions (L x W x H)	3800 x 2100 x 2500 mm	3800 x 2100 x 2500 mm
Dimensions unit (L x W x H)	1770 x 1450 x 1510 mm	1770 x 1560 x 1510 mm
Weight Trailer incl. unit	2,510 kg	TSS: 2,950 kg, TBS: 3,050 kg
Weight unit	830 kg	TSS: 1,200 kg, TBS: 1,200 kg
Filtration Technology	Ultrafiltration (UF)	Reverse Osmosis (RO)
Raw Water Source	well, river, lake, borehole	seawater / brackish water
Contamination	organic contamination	organic and anorganic contamination, salinity up to TDS 40,000 mg/l (TSS 300) resp. up to TDS 18,000 mg/l (TBS 300)
Quality of produced water	99.9999% virus- and bacteria free	potable water
Capacity	max. 1200 l/h	TSS: max. 250 l/h, TBS: max. 650 l/h
Prefilter with automatic back flushing system	2x 100 micron	1x 100 micron, 2x 50 micron, 1x 5 micron
Membranes	Ultrafiltration	TSS: Reverse Osmosis (seawater) TBS: Brackish Reverse Osmosis
Activated carbon filter, 20 micron	1 pc.	1 pc.
Power supply	solar panels, max. 720 Wp	solar panels, 1240 Wp
Power consumption unit	60 W	TSS: 650 Wh, TBS: 650 W
Power consumption incl. borehole pump	350 W	TSS: 900 Wh, TBS: 900 W
VRLA-Batteries, 12V - 180 Ah/Battery	4 pc.	4 pc.
Power connection	Solar, 24 VDC	Solar, 24 VDC
Controls	digital	digital
Feed pump, 1 pc.	max. 1200 l/h	TSS: max. 1000 l/h, TBS: max. 1500 l/h
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	0/50° C	0/50° C
Optional features	Inverter 24 VDC / 230 VAC Battery charger 230 VAC / 110 VAC Wind generator Sandfilter Monitoring Disinfection	Inverter 24 VDC / 230 VAC Battery charger 230 VAC / 110 VAC Wind generator Sandfilter Monitoring Disinfection
Certificates	NSF/ANSI 61 KTW TÜV - EN ISO 9001:2008	FDA - 21 OFR 177.2550 ISO 9001:2008



## WORLDWIDE MOBILE APPLICATIONS



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



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



**TWS 200:** clean drinking water for the hurricane-victims in Monterrey, Mexico 2010



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



**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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