


# TSU 001


## TRUNZ SEAWATER UNIT 001

The Trunz water desalination unit TSU 001 is complete and ready to deploy. It provides approx. 70 l of potable water per hour from any brackish or seawater source. Powered by solar energy it can run without ongoing fuel and fuel transport costs. The system is complete with feed pump, automatic back flushing filtration system, batteries, solar panels and controls. An efficient Reverse Osmosis system removes dissolved solids (salt, inorganic contamination etc.) as well as virus and bacteria without requiring toxic chemical treatment. The Trunz solar desalination unit is ideal for decentralised water purification in remote communities, clinics, islands, resort application etc. The system is very compact, easy to install and to maintain.



 designed to run with photovoltaic system

 up to 1'500 litres per day

 ideal for c desalination

|                                     |                                 |  |
|-------------------------------------|---------------------------------|--|
| Dimensions                          | L x W x H                       | 1500 x 390 x 1000 mm   |
| Weight                              | net                             | 99 kg  |
| Filtration Technology               |                                 | Reverse Osmosis (RO)   |
| Raw Water Source                    |                                 | Brackish or Seawater   |
| Contamination                       |                                 | Organic & inorganic contamination                              |
| Maximum raw water salinity          |                                 | TDS 42'000 ppm   |
| Quality of produced water           |                                 | potable water  |
| Application / Installation          |                                 | local / permanent installation                                 |
| Capacity                            |                                 | 60 - 80 l/h  |
| Prefilter with back flushing system | 1 pc.                           | 1x 50 micron   |
| Prefilter without back flushing     | 1 pc.                           | 1 x 5 microns  |
| Membranes                           | 1 pc.                           | 1 x Seawater Reverse Osmosis                                   |
| Activated carbon filter             | 1 pc.                           | 1 x 20 micron  |
| Power supply                        |                                 | 48 VDC   |
| Power consumption unit              |                                 | 50 W   |
| Power consumption Total             | incl. feed pump (@ 4% salinity) | 415 W  |
| Controls                            |                                 | digital  |
| Feed pump                           | 1 pc.                           | max. 1300 l/h  |
| Feed pump pressure                  |                                 | 12 bar max   |
| Tube package                        |                                 | 20 meter   |
| min./max. water temperature         |                                 | 0/45° C  |
| min./max. air temperature           |                                 | 0/50° C  |
| Optional features                   |                                 | Solar Power Center<br>Sandfilter<br>Monitoring<br>Disinfection |
| Certificates                        |                                 | FDA - 21 OFR 177.2550<br>ISO 9001:2008                         |