

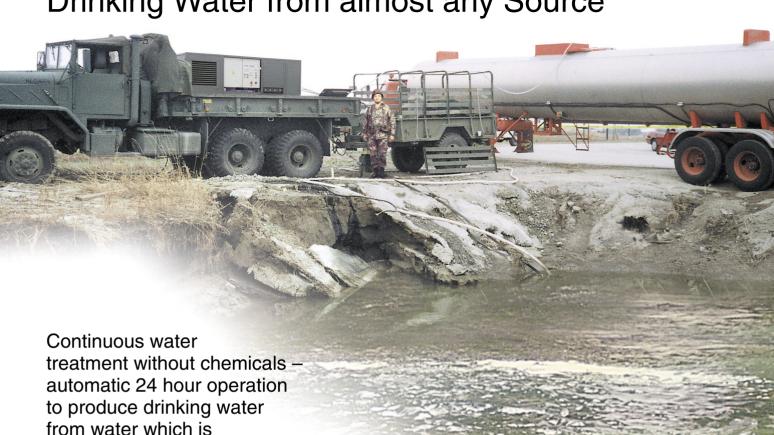




4.40 WATERCLEAN 1600



Drinking Water from almost any Source





polluted with bacteria

- Bacterial growth in the public water network
- Floods
- Attacks and acts of terrorism

toxified with chemicals

- Chemical accidents
- Industrial pollution
- Military conflicts

contaminated with radio-active particles

- Faults at nuclear power stations
- Military conflicts

No TV news is without an announcement about a catastrophe. No newspaper is without a report about people with unsufficient drinking water.

There is enough water, but it is often not drinkable!





Waterclean 1600 purifies water from contaminated sources to produce drinking water of a perfect quality.

- safe, quick, and reliable
- anywhere in the world
- under extreme climate conditions

Waterclean 1600 is not a waste water treatment system. The source water should be worthy of purification. Purification-worthy water is defined in the strict STANAG regulations issued by NATO. Drinking water produced by Waterclean 1600 under the defined conditions clearly exceeds the strict levels of the World Health Organisation (WHO), German Drinking Water Regulatory Body, and STANAG 2136.



Top Technology for the Next Decade

The »Thinking Control System«

Any type of raw water is treated fully automatically to produce the largest possible quantity of drinking water of optimal quality.



Heavy pollution – no problem

A 0,5 µm pre-filter is the prerequisite for the long life of the membrane.



Chemical-free water purification

With the double-pass procedure of reverse osmosis, even NBC contaminated water can be treated to produce drinking water.



Independent operation (optional)

A noise-encapsulated 53 dB(A) diesel generator provides the system with electricity anywhere in the world.









6.

Cleaning on site

A cleaning device is integrated in the reverse osmosis system.



The auxiliary heating ensures reliable operation of the system even under the most extreme climate conditions.







8.

One-manoperation

Setting up and operation of the system in 15 min. by just one person.

- establish raw water supply
- drain off drinking water
- = ulalli

Quick and easy collection of water

Water can be taken from any kind of water source thanks to the stainless steel submersible pump with swim-ring.

10.

Mobility

The system can be transported ■ on trailer ■ by aircraft or helicopter ■ by truck, or platform truck ■ by rail ■ by ship.

Drinking water need and quantities Total No. of daily need people (P) water is sufficient for per person Minimal ration 5-10 I 4000 P 200 P in camps 200 I in hospitals/bed 500 I 80 P 160 I 250 P on a ship

Technical features

Pre-filter

- No need for chemicals 0.5 µm bag filter
- Duplex stainless steel cage
- Large capacity also when the water is heavily polluted

Water purification with reverse osmosis

- Single and double pass operation possible
- Quantity and quality of drinking water are autom. optimised
- Cleaning system for the reverse osmosis is integrated
- All high-pressure valves, pipes, frame and coverings are made of high quality stainless steel

Generator

- The encapsulation of the generator keeps the noise level below 53 dB(A)
- Separate cooling systems for generator and engine optimises performance and maximises life
- The KHD 3 cylinder diesel engine can be operated using various fuels (F34, F54) and has already been introduced into many NATO armies

Trailer

- 1 axle trailer for optimal all-terrain driving
- Light-weight materials minimise the total weight of the system
- Standardisations ease maintenance and spare part supply

Total system

- Maximum 15 minutes needed to set up
- Minimum power required
- Power can be supplied internally and externally



Drinking water distribution station with canister and carrying bag for drinking water

Optional accessories

Water distribution station	2.850-262
Foldable tank, 2.500 l	1.436-101
Carrying bag for drinking water	6.394-187
Extension kit for N decont. (double pass)	2.639-333

Technical data

	WTC 1600	WTC 1600 G	WTC 1600 GT
Part no.	1.237-101	1.237-102	1.237-103
Length	1.900 mm	2.800 mm	3.900 mm
Width	1.600 mm	1.600 mm	2.150 mm
Height	1.050 mm	1.050 mm	2.500 mm
Weight	820 kg	1.500 kg	3.000 kg

The modular construction allows the adaption of the capacity. Max. 80.000 I drinking/day. WTC 3200 in a 20" ISO container. The system has a media filter, two WTC 1600 basic modules, a generator and air-conditioning. Rights reserved to technical modifications.



Drinking water supply in a camp (plan)

Integrated accessories

miogratou accessories	
Raw water pump	4.540-081
Raw water hose, 20 m	4.440-571
Concentrate hose, 20 m	4.440-571
Drinking water hose, 5 m	4.440-633
10 pces filter bags, 0,5 μm	6.414-546
■ Membrane cleaning agent/disinfectant Bioclean 103a, 20 I	6.290-339
Bioclean 511, 20 I RM P3 Oxonia aktiv, 30 I	6.290-338 6.290-834
■ Preservation Sodium bisulfite, 5 kg	6.769-040
■ Water storage Calcium hypochlorite, 12 x 0,9 kg	6.291-505

▼KXRCHER

Please contact us for further information:



Protection Systems



Cleaning and Environmental **Protection Systems**



Mobile Catering Systems



Water Purification

Alfred Kärcher GmbH & Co./VPS

Alfred-Kärcher-Str. 28-40, 71364 Winnenden-Germany Tel. ..49 / 71 95 / 14 27 97, Fax ..49 / 71 95 / 14 27 80 E-mail: vps@de.kaercher.com

Internet: http://www.karcher-vps.com

- ⚠ 1220 Wien 22 @ Melbourne, Victoria @ Paulinia-Estado de Sao Paulo
 ② 2320 Hoogstraten @ Mississauga, Ontario @ 8108 Dăllikon @ Beijing 10076
 ② 155 00 Praha 5 @ 6000 Kolding © 08400 Granollers (Barcelona) @ 01800 Klaukkala
 ① 94865 Bonneuil-sur-Marne @ Banbury Oxon OX 16 7TB @ 136 71 Aharnes
 ② Budapest XXI @ Kwun Tong, Kowloon ① 21050 Cantello (VA) ① Miyagi 981-34
 @ 47100 Puchong @ Naucalpan, Edo. de Mexico 53020 @ B-2320 Hoogstraten
 ② 0409 Oslo @ East Tamaki, Aukland @ 30-198 Kraków ③ 42502 Hisings-Kärra
 @ Singapore 608840 @ Wu-Ku Indust-Zone, Taipei County @ Jedel Ali Free Zone
 ② Sommerset NJ 18875-6910. @ American Kleaner (C 9 1730. ② Morra Valley 1686
- Sommerset NJ 08875-6910 American Kleaner CA 91730 Vorna Valley 1686