



KÄRCHER

WTC 500-RO Desalinator

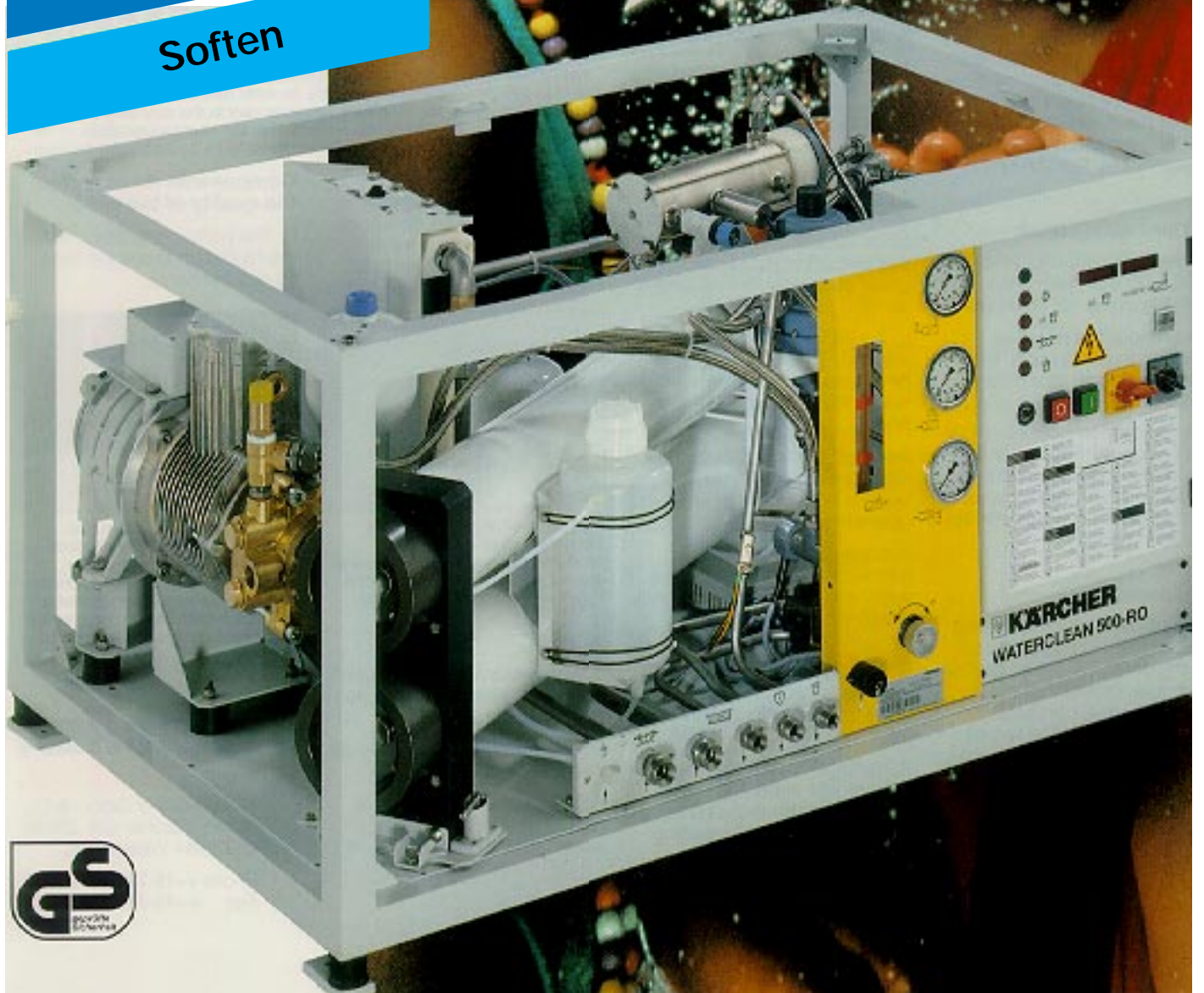
Removes dissolved salts, nitrates and heavy metals

WTC 500-soft Softener

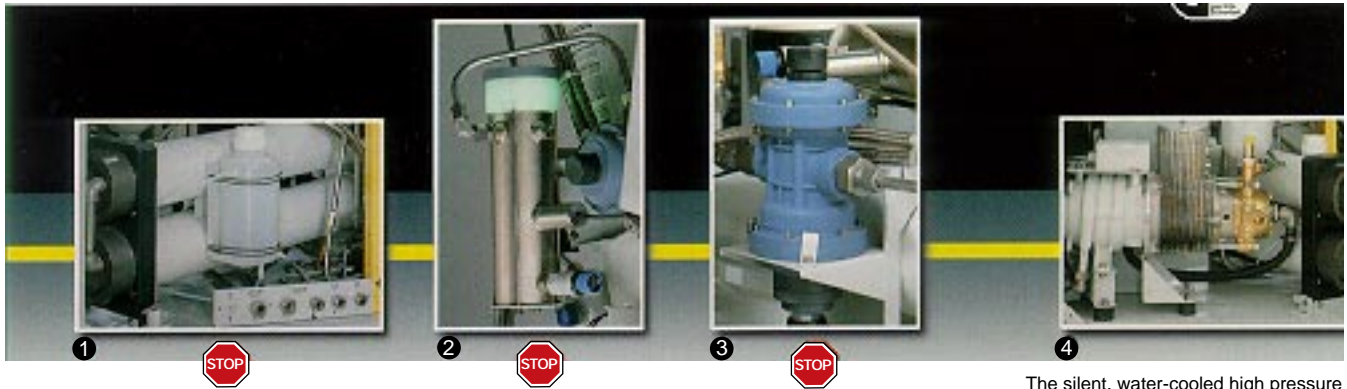
A complete system
RO + UV + dispensing

Desalinate

Soften



WTC 500-RO(Desalinator) / WTC-soft(Softener, with the same structure) Innovative technology with "three- level -safety-process"



The silent, water-cooled high pressure pump ensures a constant flow rate.

Treatment levels / technology

First safety level:

1. The WTC 500-RO contains two 40" membranes .

Advantage: High flow rate without interruption guaranteed over a long period of time due to the large surface area of the filter.

Second safety level:

2. The system has a UV-disinfection unit as standard. The water passes through this after the RO-membrane.

Advantage: Reliable disinfection of the drinking water.

This provides a second safety level after the water has passed through the filter membranes. The possibility of reinfection of the clean water by bacteria growth is effectively prevented by the UV-lamp.

Third safety level:

3. The WTC 500-RO and WTC 500-soft have a dispensing unit as standard.

Advantage: It is not at all possible to store water without the addition of a disinfectant.

Only a small amount of chlorine is added to the water by the feed pump to prevent reinfection. Large quantities of treated drinking water can be stored in tanks.

Equipment

4. Instruments for monitoring the constant pressure, functioning of the UV-lamp, operating hours, quantity of the drinking water, conductivity (= salt content of the water) and dispensing unit that guarantee and control the operating safety are standard in the scope of delivery.



The clear control panel together with the instruction panel ensure easy operation of all safety indicators and operating elements.

Advantage: All important functions are monitored and the system switches itself off automatically as soon as the slightest error occurs which could endanger the treatment quality.

5. A silent, water-cooled high pressure pump (50/60Hz) drives approx. 2,000 l raw water through the filters per hour.

Another protection factor: The constant flow rate ensures the system in the case of an operating error.

Another advantage: Each membrane is only burdened with 15% of the water quantity which extends its life span.

6. The dispensing unit built into the series can either be used for final chlorinating or resalting.

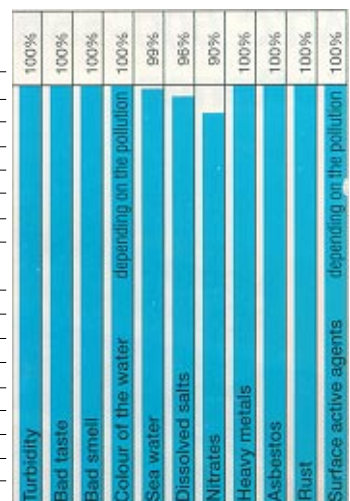
Advantage: When treating river or well water the salt content can be reduced to such an extent that resalting is necessary.

Drinking water: Output/water quality according to type of raw water*

Brackish water	max. 500 l/h
Sea water	max. 400 l/h

Raw water: input

Quantity of raw water	1900-2200 l/h
Pressure of raw water	4-7 bar
Temperature of raw water	5-35, C
PH value of raw water	6,5-9,5
Maximum manganese content in raw water	0,05 mg/l
Turbidity NTU	max. 15 NTU
Maximum pressure	65 bar
Dimensions	
Length	1185 mm
Width	785 mm
Height	585 mm
Weight when empty	197 kg
Power needed	430 V, 50/60 HZ; 22



* The quality of the treated water is dependent on the membrane and the salt content - the quality can possibly be even better. The 500-RO and 500-soft have the same structure, however vary in the way they clean; WTC 500-soft softens the water - 100%: see the comparison table of the 4 sided prospectus. Chlorine can be removed 100% by additional modules.

7. The sturdy frame is made from stainless steel and makes it possible to stack up to 3 devices on top of each other. The frame's dimensions make it suitable for insertion into a container.



The powder coated stainless steel frames of all WTC 500 modules are precision made and can be steadily secured together by the available pins.

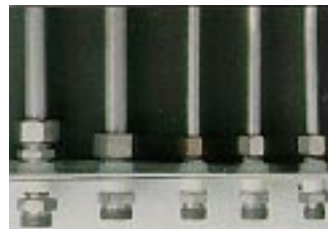
8. The system can be controlled by the external float switch in the store tank.

The electrical components are already in the system.

Advantage: It is sufficient to electrically connect the float switch with the WTC 500-RO.

Components do not affect the quality of the water

9. The parts correspond to the highest hygiene technology requirements.



All pipes are made from sea water resistant steel or Teflon. Rust is avoided, even under very offensive conditions, consequently no oxygen can penetrate the pipes from the outside which would encourage the growth of bacteria.



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