

High purity water for the lab's daily needs.

It's so easy! TKA MicroMed.



**Purer.
Quicker.
Greater economy.**

TKA WATER
PURIFICATION
SYSTEMS

TKA MicroMed. Purer. Quicker. Greater economy.



■ **High purity water, better than ASTM Type III.**

For daily needs in the lab:

- Numerous analytical requirements
- Standard chemical applications
- Reagent preparation
- Autoclave operation
- Thermodisinfectors
- Ultrasonic cleaning
- Instrument cleaning



Swivel-mounted display - always easy to read



TKA MicroMed – Not only the elegant exterior advances laboratories into the future!

■ **Instantly and fresh. With TKA MicroMed.**

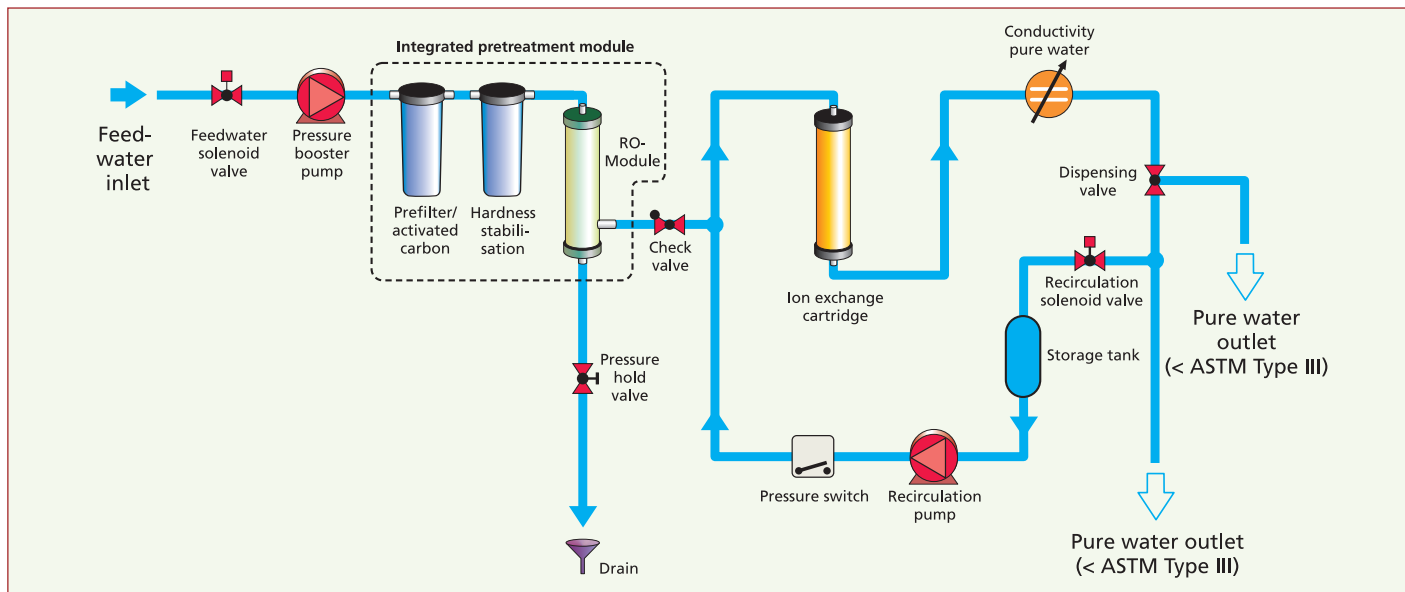
This is the password for converting normal tap water to ASTM Type III high purity water.

All in one! TKA MicroMed is a compact system that produces 6 litres per hour. The built-in 6 litre tank for high purity water has a conical bottom for complete emptying and is equipped with a sterile vent filter (optional) and a pressure pump for supplying equip-

ment connected downstream (e.g. autoclaves, analyzers). If required, a flexible dispenser with a sterile filter can be connected to the tank. The system has a small footprint, is very attractively designed and looks good in any laboratory.

TKA MicroMed operates with the same high-tech purification procedures as the well known TKA Pacific systems.

TKA MicroMed Flow chart.



The result: High purity water better than ASTM Type III.

Conductivity in $\mu\text{S}/\text{cm}$:	0.1 – 1.0
Resistance in $\text{M}\Omega \times \text{cm}$ at 25°C:	10 – 1
Percentage membrane retention of germs, bacteria, particles:	99%
Flow rate per minute:	1.0 litre
Permeate performance per hour:	6 litres

High purity water at the press of a button! Position it, connect it, use it!



Space saving!

Simply stand it on the laboratory bench, or mount it directly to the wall.



Economical!

Two long-life cartridges with quick-connects. Each requires replacement only when really necessary!

■ More ideas = more benefits!

How TKA MicroMed differs from other compact-class systems:

Powerful performance!

- Flow rate per minute, 1.0 l
- 6-Litre tank with integrated pressure and recirculation pumps

Lasting economy!

- Water purification progresses through separate modules, each with quick connects for simple individual replacement
- **Module 1**
Pretreatment module with integrated reverse osmosis membrane
- **Module 2**
Cartridge containing high-quality resins with very long service intervals

Easiest to operate!

- Just press a button to get high purity water - no adjustments necessary, the microprocessor control controls itself
- High purity water quality is ensured by the limiting value input
- RS 232 Interface
- The display can be tilted to your optimal reading position

Placement anywhere

- Stand it on the laboratory bench
- Mount it on the wall

Usable worldwide!

- Whether 220/230 V, 110/120 V or other voltages - and even with fluctuating voltages - the automatic voltage regulator continually supplies the system with a constant 24 volts

Almost maintenance-free!

- The tank is made of ultrapure water resistant, pigment-free and food-safe polyethylene and has a conical bottom outlet for complete emptying
- Can be easily cleaned and disinfected



■ Distillation was yesterday.

It is true that water has been heating to boiling and relatively pure water won by condensing the steam for hundreds of years, but this traditional method is complicated, time-consuming and also nowadays very expensive.

Costly in electricity

- 1 – 2 kW of energy are needed for 2 l/h of distilled water

Large cooling water requirement

- 20 – 30 Litres of cooling water are needed for 2 litres of distilled water

Lots of room

- A water still needs quite some space

High cleaning expenditure

- Particularly with hard water

Uncertain quality

- No monitoring, no display

Great risk of contamination

- Distilled water is held in closed containers. Each opening of the closure can lead to the ingress of contamination and reduced quality

Low flow rates

- Small laboratory stills only produce 2 l/h of distilled water. It must therefore be produced for stock

■ It's time to change!



■ Specifications and accessories

	TKA MicroMed
Permeate performance at 15 °C:	6 l/h
Flow rate:	1.0 l/min
Operating pressure in bar, min/max:	1 – 6 bar
Conductivity:	0.1 – 1.0 µS/cm
Resistance at 25 °C:	10 – 1 MΩ×cm
Percentage of germs, bacteria, particles retained by the membrane:	99 %
Supply voltage:	Automatic voltage regulation to 24 V
Power consumption:	0.06 kW
Connector size:	R 3/4"
Dimensions, W x D x H in mm:	305 x 400 x 545
Weight:	22 kg
Cat. no.:	05.3006

Consumables and accessories

Wall-mount	Cat. no. 09.2212
Pretreatment module with RO-membrane	Cat. no. 09.2006
Ion exchange cartridge	Cat. no. 09.1019
Vent filter for tank	Cat. no. 22.0091

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