

Everyday ultrapure water. Even for demanding lab applications.

Compact high-tech! TKA Smart2Pure.



**Two in one.
ASTM Types I/II water.
Instantly and fresh.**

TKA WATER
PURIFICATION
SYSTEMS

**TKA Smart2Pure. For small volumes.
But of highest quality!**



■ **ASTM Type I Ultrapure water.**

For example, for:

- Molecular biology, microbiology, PCR, inorganic and organic trace analysis
- HPLC, ICP TOC-analysis

■ **ASTM Type II Ultrapure water.**

For example, for

- Rinsing laboratory glassware
- Preparing and diluting buffers, reagents, tissue culture media and dyes
- Sample preparation for analytical methods such as flame AAS



Convenient

Swivel-mounted display - always easy to read!

■ **Instantly and fresh.**

With TKA Smart2Pure

This is the password for converting normal tap water to ultrapure water of ASTM Types I and II.

All in one! TKA Smart2Pure is a compact complete system that produces 3 or 6 litres of ultrapure water per hour. The built-in 6 litre tank for ultrapure water has a conical bottom for complete emptying. It is equipped with a sterile vent filter and a pressure pump for supplying equipment 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 Smart2Pure operates with the same high-tech purification procedures as the well known TKA Pacific and GenPure systems.

TKA Smart2Pure.
Ultrapure water at the press of a button! Position it, connect it, use it!



Economical!

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

One, two, three...

...rapid cartridge change due to quick-connects.

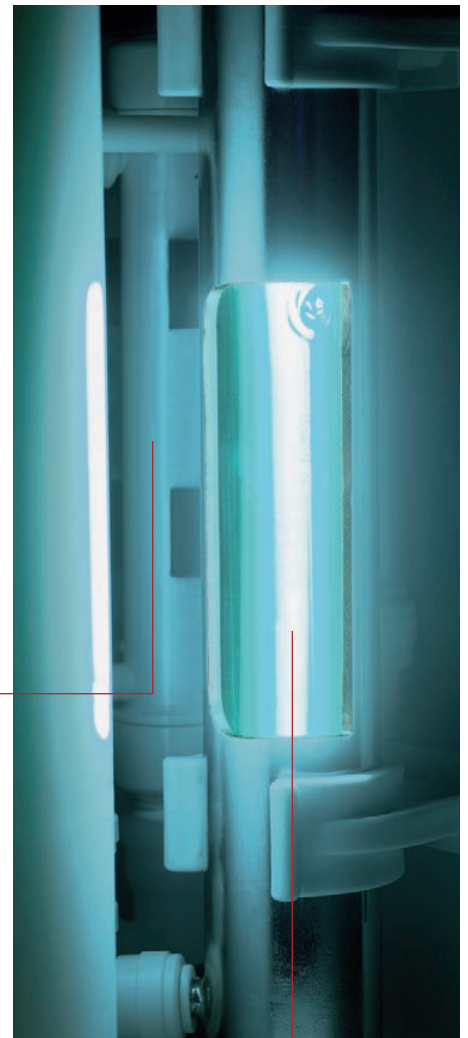


Space saving!

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

High performance filter!

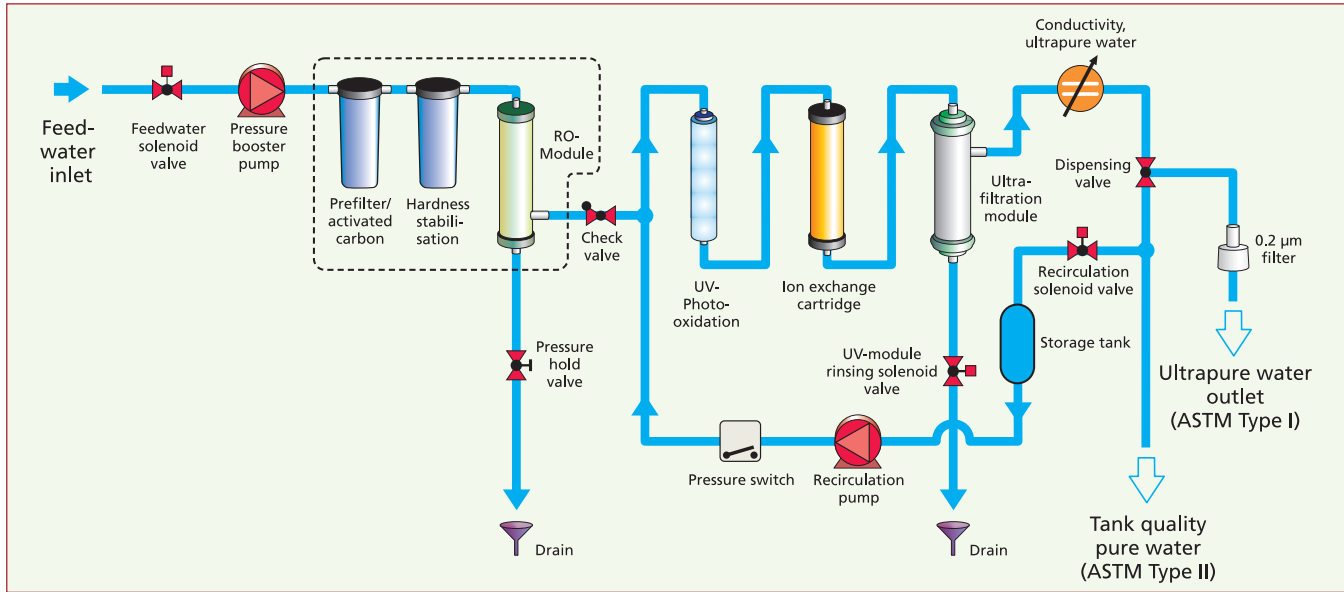
Option of an integrated ultrafilter, generously dimensioned for pyrogene-free and nuclease-free water. The automatic self-cleaning gives years of service.



UV Oxidation 185/254 nm!

Optionally with additional UV oxidation for reducing the content of microorganisms and their metabolites.

TKA Smart2Pure UV/UF Flow chart.



The result: Ultrapure water of the quality required:

ASTM Type I

Production of ultrapure water for low volume requirements. The ultrapure water is delivered via a sterile filter.

Conductivity in $\mu\text{S}/\text{cm}$:	0.055
Resistance in $\text{M}\Omega \times \text{cm}$ at 25°C :	18.2
Bacterial content in CFU/ml:	< 1
Particle content:	< 1
Flow rate per minute:	1.0 litre

ASTM Type II

3 or 6 Litres per hour. Always freshly produced and ready-to-take at any time from the built-in 6 litre tank.

Conductivity in $\mu\text{S}/\text{cm}$:	0.067 – 0.1
Resistance in $\text{M}\Omega \times \text{cm}$ at 25°C :	15 – 10
Percentage of germs, bacteria, particles retained by the membrane:	99 %
Flow rate per minute:	1.0 litre



Absolutely sterile!

Ultrapure water is dispensed through a standardly built-in sterile filter.

More ideas = more benefits!

How TKA Smart2Pure differs from other compact class systems:

Powerful performance!

- Permeate flow 3 or 6 l/h
- Flow rate 1.0 l/min
- 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 ultrapure resins with very long service intervals

Easiest to operate!

- Just press a button to get ultrapure water - no adjustments necessary. The microprocessor control is a self-controlling component
- Ultrapure water quality is ensured by the limiting value input
- RS 232 Interface
- The display can be tilted to your optimal reading position

Positioning anywhere in the lab

- Laboratory bench-top operated
- or wall-mounted

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





■ Technical specifications

	TKA Smart2Pure Standard	TKA Smart2Pure UF*	TKA Smart2Pure UV**	TKA Smart2Pure UF/UV
Permeate performance at 15°C:	3 l/h or 6 l/h	3 l/h or 6 l/h	3 l/h or 6 l/h	3 l/h or 6 l/h
Flow rate:	1.0 l/min	0.6 l/min	1.0 l/min	0.6 l/min
Operating pressure in bar, min/max:	1 – 6 bar	1 – 6 bar	1 – 6 bar	1 – 6 bar
ASTM I conductivity:	0.055 µS/cm	0.055 µS/cm	0.055 µS/cm	0.055 µS/cm
Resistance at 25°C:	18.2 MΩ×cm	18.2 MΩ×cm	18.2 MΩ×cm	18.2 MΩ×cm
TOC Value:	5 - 10 ppb	5 - 10 ppb	1 - 5 ppb	1 - 5 ppb
Bacterial content in CFU/ml:	< 1	< 1	< 1	< 1
Particle content:	< 1	< 1	< 1	< 1
Endotoxines in EU/ml:		0.005		0.005
ASTM II conductivity:	0.067 – 0.1 µS/cm	0.067 – 0.1 µS/cm	0.067 – 0.1 µS/cm	0.067 – 0.1 µS/cm
Resistance at 25°C:	15 – 10 MΩ×cm	15 – 10 MΩ×cm	15 – 10 MΩ×cm	15 – 10 MΩ×cm
Supply voltage:	Automatic voltage regulation to 24 V		Automatic voltage regulation to 24 V	
Power consumption:	0.06 kW	0.06 kW	0.06 kW	0.06 kW
Connector size:	R 3/4"	R 3/4"	R 3/4"	R 3/4"
Dimensions, W x D x H in mm:	305 x 400 x 545	305 x 400 x 545	305 x 400 x 545	305 x 400 x 545
Weight:	22 kg	22 kg	22 kg	22 kg
Cat. no., 3 l/h version:	08.2030	08.2031	08.2032	08.2033
Cat. no., 6 l/h version:	08.2060	08.2061	08.2062	08.2063

* supplemented with an ultrafilter

** supplemented with UV-oxidation, 185/254 nm

Consumables and accessories

Wall-mount	Cat. no. 09.2212
Pretreatment module with RO-membrane, 3 l/h	Cat. no. 09.2003
Pretreatment module with RO-membrane, 6 l/h	Cat. no. 09.2006
Ultrapure water cartridge	Cat. no. 09.1020
Sterile filter	Cat. no. 09.1003
Vent filter for tank	Cat. no. 22.0091

Your TKA Representative



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