





- 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 of

 $\label{thm:condition} \mbox{Two long-life cartridges. Each requires replacement only when really necessary!}$

One, two, three...

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

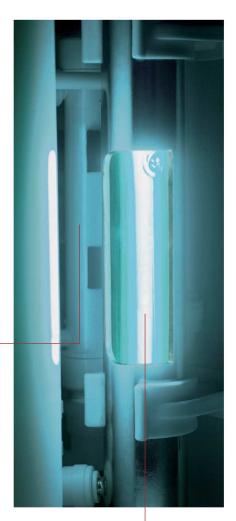






High performance filter!

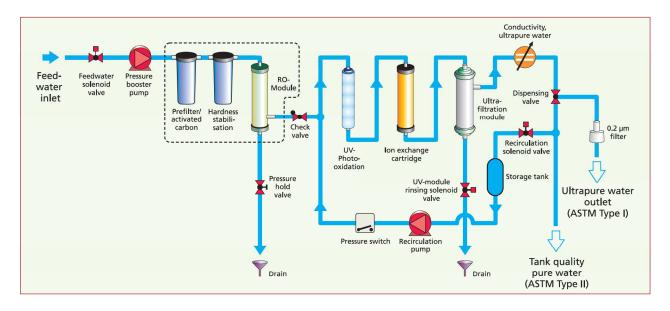
Option of an integrated ultrafilter, generously dimensioned for pyrogene-free and nuclease-free water. The automatic self-cleaning gives years of service.



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 small volume requirements. The ultrapure water is delivered via a sterile filter.

Conductivity in µS/cm:	0.055
Resistance in M Ω ×cm at 25°C:	18.2
Bacterial content in CFU/ml: Particle content:	< 1 < 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 µS/cm:	0.067 – 0.1
Resistance in MΩ×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 supplied 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 controls itself
- Ultrapure 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



	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: Resistance at 25°C: TOC Value: Bacterial content in CFU/ml:	0.055 μS/cm 18.2 MΩ×cm 5 - 10 ppb < 1	0.055 μS/cm 18.2 MΩ×cm 5 - 10 ppb < 1	0.055 μS/cm 18.2 MΩ×cm 1 – 5 ppb < 1	0.055 μS/cm 18.2 MΩ×cm 1 – 5 ppb < 1
Particle content: Endotoxines in EU/ml:	< 1	< 1 0.005	< 1	< 1 0.005
ASTM II conductivity: Resistance at 25°C:	0.067 – 0.1 μS/cm 15 – 10 MΩ×cm	0.067 - 0.1 μS/cm 15 – 10 MΩ×cm	0.067 – 0.1 μS/cm 15 – 10 MΩ×cm	0.067 – 0.1 μS/cm 15 – 10 MΩ×cm
Supply voltage:	Automatic voltage regulati	on to 24 V	Automatic voltage regu	lation 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
Article no., 3 I/h version:	08.2030	08.2031	08.2032	08.2033
Article no., 6 l/h version:	08.2060	08.2061	08.2062	08.2063

^{*} supplemented with an ultrafilter

Consumables and accessories

COLLEGE COLLEGE COLLEGE	
Wall-mount	Article-no. 09.2212
Pretreatment module with RO-membrane, 3 l/h	Article-no. 09.2003
Pretreatment module with RO-membrane, 6 l/h	Article-no. 09.2006
Ultrapure water cartridge	Article-no. 09.1020
Sterile filter	Article-no. 09.1003
Vent filter for tank	Article-no 22 0091

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^{**} supplemented with UV-oxidation, 185/254 nm