

18.2 MΩ×cm Ultrapure Water.



Fresh on Demand! TKA MicroPure.



New!
For small volumes
umpteen times
a day!

TKA WATER
PURIFICATION
SYSTEMS

TKA MicroPure. Favourable price. Compact. Reliable.



■ The “Micro-sized” Ultrapure Water System!

Everything that most laboratories need!

Many laboratories require ultrapure water every day - for HPLC or for other instrumental analyses, for sample preparation, for the rinsing of glassware or for molecular biology work in which endotoxines and/or nucleases would interfere - but only as small volumes at a time, up to a total of a few liters at the most.

However, this is no reason to do without professional, freshly-prepared ultrapure water and buy expensive HPLC water. After all, with the repeated taking of small volumes from an HPLC water container, the quality of the water and the TOC-value no longer fulfill the specifications. The ultrapure water is no longer ultrapure!

18.2 MΩ×cm quality!

The designation “ultrapure water” is only normally used for water that fulfills the following specifications:

- Resistance: 18.2 MΩ×cm
- TOC value: max. 10 ppb
- Bacterial content: < 1 CFU/ml
- Particles > 0.22 µm: < 1/ml

■ TKA MicroPure gives you more:

Ultrapure water as you need!

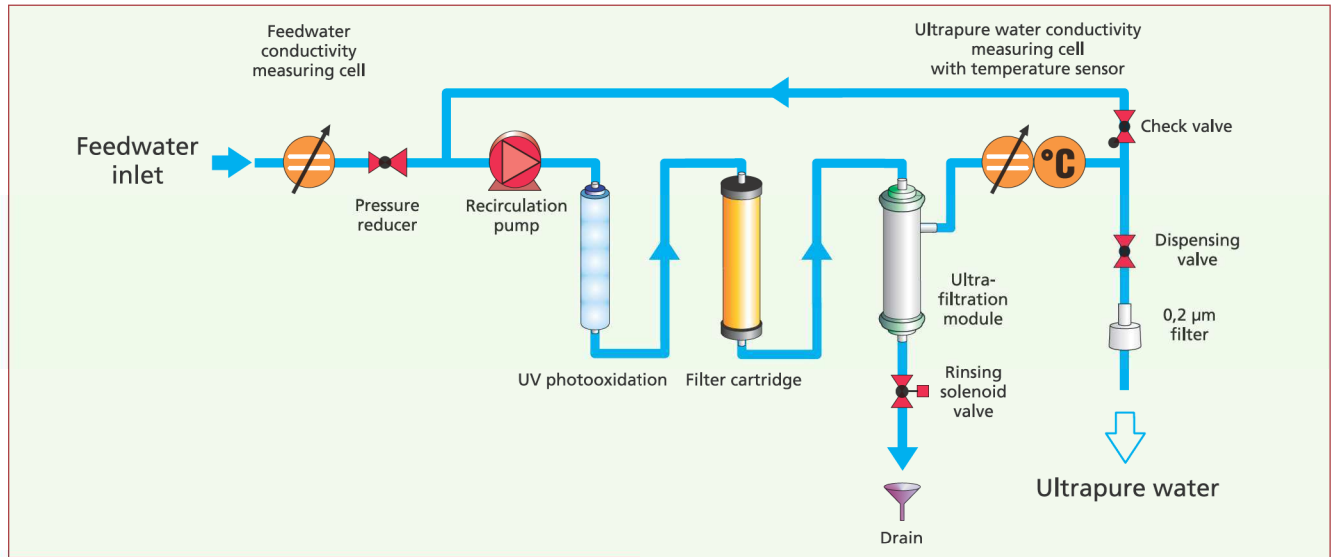
Always fresh. Always available in the volume required. Always with the required quality. And always for only a few cents per liter!

Water to suit the job professionally, from one of four different versions, according to requirements.

Typical applications		Instrumental analytical methods such as AAS, IC, ICP	High-sensitivity instrumental analytical methods, such as HPLC, ICP-MS, TOC-analyses, MC	Molecular biology, PCR, DNA, cell cultures, monoclonal antibodies	Microbiology, molecular biology, PCR, monoclonal antibodies, cell culture media
Product water characteristics	Flow rate, L/min:	1.5	1.5	1.5	1.5
	Conductivity, µS/cm:	0.055	0.055	0.055	0.055
	Resistance at 25°C, MΩ×cm:	18.2	18.2	18.2	18.2
	TOC value, ppb:	5 – 10	1 – 5	1 – 5	5 – 10
	Endotoxines, EU/ml:	–	–	0.001*	0.001*
	Bacterial content, CFU/ml:	< 1	< 1	< 1	< 1
Particles > 0.2 µm, per ml:	< 1	< 1	< 1	< 1	
Type Article no.		MicroPure 08.1202	MicroPure UV 08.1205	MicroPure UV/UF 08.1204	MicroPure UF 08.1203

* Dependent on feedwater and sanitization

Flow chart TKA MicroPure UV/UF.



„ON/OFF“

- Switches the system ON or OFF

DISPLAY

- Illuminated clear text display

„NONSTOP“

- STARTS ultrapure water production

„UV“

- Switches the UV lamp ON or OFF

„INTERVAL“

- Brings the system to STAND BY mode
- In stand by mode and in production mode, the display permanently shows the ultrapure water CONDUCTIVITY and TEMPERATURE.

„MENEUE“

- To call and alter LIMITING VALUES for CLEANING and DISINFECTION

Designed for simplest operation.

The central control display makes all functions conveniently available, so that TKA MicroPure is ready to operate at the press of a button.

Just switch it on.

Everything else is automatically managed by the built-in microprocessor system control. The interval switching of the recirculation pump for prevention

of bacterial growth during standstill, for example, as well as permanent monitoring of all limiting values and the immediate display of fault messages.



One, two, three...

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



Dependable ultrapure water dispensing!

A protective bell on the sterile filter outlet prevents accidental contamination from finger contact.



Optional feedwater tank!

The MicroPure is also available on request with a 6 liter feedwater tank for filling with distilled water.



Technical details and accessories

TKA MicroPure

Electrical requirements:	230 V / 50 – 60 Hz
Power consumption:	0.06 kW
Operating pressure, min/max:	0.1 – 6 bar
Ambient temperature:	min. 2° C, max. 35° C
Dimensions, W x D x H:	305 x 300 x 545 mm
Weight:	approx. 17 kg
Feedwater connector:	Male R 3/4"
Installation:	Bench-top, optional wall mounted

Consumables and accessories

Sterile filter, 0.2 µm	Article-No. 09.1003
Filter cartridge, Micro	Article-No. 09.1006
Pretreatment system, complete	Article-No. 09.2000
Replacement cartridge for pretreatment system	Article-No. 09.2001
Replacement UV lamp	Article-No. 09.1002
Disinfection cartridge	Article-No. 09.1102
Disinfection tablets, pack of 12	Article-No. 09.2202
Wall mounting unit for MicroPure	Article-No. 09.2212

TKA MicroPure type

Ultra pure water system MicroPure	Article-No. 08.1202
Ultra pure water system MicroPure with ultrafiltration	Article-No. 08.1203
Ultra pure water system MicroPure with ultrafiltration and UV photo-oxidation 185/254 nm	Article-No. 08.1204
Ultra pure water system MicroPure with UV photo-oxidation 185/254 nm	Article-No. 08.1205

The MicroPure systems above are also available with an optional 6 liter feedwater tank, e.g.: **MicroPure + tank** Article-No. 08.1202-ST

Feedwater pretreatment:

We recommend pretreatment by means of a TKA pretreatment system or Pacific UP/UPW system, or distillation.

Feedwater specifications:

Silt density index (SDI):	max. 1
Conductivity:	< 5 µS/cm
Free chlorine:	max. 0.05 ppb
TOC value:	max. 50 ppb
Turbidity:	< 1.0 NTU
Carbon dioxide:	max. 30 ppm
Silicate:	max. 2 ppm
Pressure:	0.1 – 6 bar
Ambient temp.:	+2 °C – +35 °C

Distributed by:



Carl Stuart Limited

ADVANCED APPLIED TECHNOLOGIES

Contact Us:

Irl Ph: 01 4523432
 UK Ph: 08452 30 40 30
 Web: www.carlstuart.com
 Email: info@carlstuart.com



TKA Wasseraufbereitungssysteme GmbH
 Stockland 3
 56412 Niederelbert / Germany
 Telephone: +49 (0)2602 / 10699-0
 Telefax: +49 (0)2602 / 10699-50
 eMail: info@tka.de
www.tka.de