

Ultrapure Water Systems - ASTM type I + II, TKA Wasseraufbereitungssysteme

The ultra-pure water system for direct connection to drinking water. Ideal for use in laboratories without connection to pre-treated water. Modular treatment levels produce laboratory water of different qualities, such as ASTM type II (e.g. for rinsing of laboratory glasses, preparation and dilution of buffers, etc.) and ASTM type I (e.g. instrumental analyses, AAS, HPLC, IC, ICP). The produced laboratory water type II can be removed from the integrated 6 l ultra-pure water tank. An additional pressure output makes it possible to provide downstream devices such as autoclaves and analysers. The number of innovative enhancement options, e.g. an UV-lamp with the wavelengths 185/254 nm and a rinsable ultra-filter with a flow rate of up to 0.6 l/min ensure ideal supply of all analytical and bio-scientific applications.

Features:

- Flexible, compact laboratory system for mounting on the laboratory table, or for space-saving wall mounting with the optionally available holder
- High-tech treatment cartridges that can be replaced separately for easy, economical change of consumables
- Universal supply of laboratory water by provision of different removal capacities (3 or 6 l/h) and ultra pure water qualities (ASTM I and II)
- Guaranteed pure water quality: The recirculation pump and the sterile ventilation filter serve as contamination protection and ensure a tank water quality of 10 – 15 MΩ × cm
- Additional pressure output at the ultra pure water tank for supplying upstream units (e.g. autoclaves, analyzers) or connecting a flexible dispenser

Ultra-pure water specifications ASTM Type I:

Removal performance l/min.:	1.0
Removal performance l/min. (models with UF):	0.6
Conductivity in μS × cm:	0.055
Resistance in MΩ × cm:	18.2
TOC-value in ppb (models with UV):	1 – 5
TOC-value in ppb:	< 10
Endotoxin in EU/ml (models with UF):	< 0.005
Bacteria content in KbE/ml:	< 1
Particle content pro ml:	< 1

Ultra-pure water specifications ASTM Type II:

Permeate line/flow rate l/h at 15°C:	3 or 6
Conductivity in μS × cm:	0.067 – 0.1
Resistance in MΩ × cm:	10 – 15
Connection voltage in V/Hz:	automatic voltage adjustment to 24 V

Dimensions in mm WxDxH: 305 × 400 × 545

Permeate production 3 l/h

Article	Typical application	Order No.
Smart2Pure 3	AAS, IC, ICP, standard buffer	10 86 62030
Smart2Pure 3 UF	Micro and molecular biology, PCR, IVF	10 86 62031
Smart2Pure 3 UV	Trace analysis, HPLC, ICP-MS, IC	10 86 62032
Smart2Pure 3 UV/UF	Molecular biology, PCR, DNS, IVF	10 86 62033
	Monoclonal antibodies, cell culture	

Permeate production 6 l/h

Article	Typical application	Order No.
Smart2Pure 6	AAS, IC, ICP, standard buffer	10 86 62060
Smart2Pure 6 UF	Micro and molecular biology, PCR, IVF	10 86 62061
Smart2Pure 6 UV	Trace analysis, HPLC, ICP-MS, IC	10 86 62062
Smart2Pure 6 UV/UF	Molecular biology, PCR, DNS, IVF	10 86 62063
	Monoclonal antibodies, cell culture	

Accessories

Article	Order No.
Wall holder	10 86 62212
Pre-treatment package 3l/h	10 86 62003
Pretreatment package 6 l/h	10 86 62006
Ultrapure water cartridge for Smart2Pure	10 86 61020
Replacement UV-lamp	10 86 61002
Sterile filter 0.2 μm	93 86 91003
Sterile tank ventilation filter	10 86 60091
Disinfectant VE 12 pcs.	10 86 62202

