

Ultrapure Water System GenPure, TKA Wasseraufbereitungssysteme

① GenPure ultrapure water system

Modular ultra pure water system for the most demanding HPLC, IC, ICP, AAS, molecular biology, microbiology, PCR and IVF applications. Ultra pure water quality exceeds ASTM, CAP, ISO, NCCLS, etc. requirements. Large, pivot-mounted display with backlighting provides information on all key parameters to the user at any time. The operator can select ultra pure water and input water limits. Fully automatic control of all processes which ensure water quality including rinsing, recirculation and disinfection.

Features:

- Compact laboratory system either for mounting on the laboratory table, for wall mounting, or with the optional dispenser unit even under the laboratory table
- Swiveling display/keyboard unit for setting the limits for ultra pure and input water quality
- Integrated feedwater monitoring with individually adjustable limit ensures the degree of purity of the product water and a long service life of the filter sets
- Protection from unauthorized modifications and adjustments by means of logging in conformity with GLP via RS 232 interface and code-protected operation system
- Conductivity measurement with automatic calibration in conformity with USP
- Temperature compensation via selected platinum chip. Before each measurement, the compensation factor is re-computed subject to the conductivity.

Additional accessories for GenPure:

- Real-time TOC monitoring for continuous and precise analysis of the organic contents of the water
- UV intensity monitoring function in % for checking the UV radiator - ensures low TOC values and precise measurement
- Infinitely adjustable, amount-controlled volume dispensing for the automatic removal of standard amounts in the range from 0.01 to 65 liters

Technical data:

Conductivity in $\mu\text{S} \times \text{cm}$:	0.055
Resistance in $\text{M}\Omega \times \text{cm}$:	18.2
Flow rate in l/min:	up to 2
TOC in ppb (models with UF):	1 to 5
TOC in ppb (models without UF):	< 10
Endotoxines in EU/ml (models with UF):	< 0.001*
RNase* in mg/ml (models with UF):	0.01
DNase* in pg/ μl (models with UF):	4
Bacteria in KbE/ml:	< 1
Particles per ml:	< 1
Dimensions in mm (WxDxH):	372 x 330 x 603
Feedwater connector:	R 3/4" AG
Input capacity:	0.1 kw
Input voltage:	230 V, 50 Hz

*Depending from the quality of feedwater

Article	Typical application	Order No.
GenPure	AAS, IC, ICP, standard buffer	93 86 82202
GenPure UF	Micro and molecular biology, PCR, IVF	93 86 82203
GenPure UV	Trace analysis, HPLC, ICP-MS, IC	93 86 82205
GenPure UV/UF	Molecular biology, PCR, DNS, IVF Monoclonal antibodies, cell culture	93 86 82204
GenPure UV-TOC	Trace analysis, HPLC, ICP-MS, IC TOC analysis	93 86 82206
GenPure UV/UF-TOC	Molecular biology, PCR, DNS, IVF Monoclonal antibodies, cell culture	93 86 82207

Accessories for GenPure

Article	Order No.
Ultrapure water filter set	93 86 92005
Sterile filter 0.2 μm	93 86 91003
Spare UV lamp for GenPure	93 86 92002
Disinfection cartridge for GenPure	10 86 62201
Disinfectant VE 12 pcs.	10 86 62202
Data printer for GenPure	10 86 62207
Volume-controlled dispensing unit for GenPure	10 86 62210

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② Control and dispenser Unit xCAD for GenPure

Flexible dispenser/control unit for ultra pure water systems for individual, freely programmable removal of ultra pure water. Two equipment versions (stand-alone or wall dispenser) can be used to integrate the main unit under the laboratory table.

Features:

- Multi-language operating module for comprehensive control of all operating functions and output parameters directly at the dispenser unit
- Swiveling display, reader-friendly, particularly well suited for simple wall mounting
- Telescopic removal joystick with an action radius of max. 80 cm - fully integrated into recirculation
- Rotating, height-adjustable dispenser arm with a max. rotation of 180° - adjustable for wall mounting without additional holder
- Ergonomically shaped removal joystick with infinitely adjustable, amount-controlled volume dispensing for amounts in the range from 0.01 to 65 liters
- Simultaneous removal of ultra pure water at max. 3 removal units

Technical specifications:

Distance to Main Unit	max. 5 m
Connector dispenser unit	up to 3 units
Removal volume at dispenser:	up to 1.2 l/min.
Hose connections ultra pure water / recirculation:	2 × d6
Data transfer via parallel interface:	2 × 25-pol. Sub-D
Dimensions in mm (W × D × H):	256 × 311 × 765

Article	Dispenser version	Order No.
GenPure + xCAD	bench version	10 86 62211
GenPure UF + xCAD	bench version	10 86 62213
GenPure UV-TOC + xCAD	bench version	10 86 62216
GenPureUV/UF-TOC + xCAD	bench version	10 86 62217
GenPure + xCAD	wall version	10 86 62222
GenPure UF + xCAD	wall version	10 86 62223
GenPure UV-TOC + xCAD	wall version	10 86 62226
GenPureUV/UF-TOC + xCAD	wall version	10 86 62227

