

# WATER PURIFICATION

## LABORATORY WATER PURIFICATION SYSTEM BOECOpure PLUS

The all-rounder for H<sub>2</sub>O pure type ASTM I + ASTM II

If both, pure and ultra pure water in small quantities is required, BOECOpure PLUS is the perfect system.

The ability to provide both types from a single system results from the combination of ultramodern purification technologies. These also make it possible to connect the system directly to a drinking water tap.

A press on the dispenser button activates dispensing of ultrapure water type ASTM I via the digital dispenser control. The recirculation of the pure water held in the installed 10 litre tank keeps it permanently at type ASTM II quality. The pure water tank has a second outlet for feeding downstream end users.

### Features:

- ▶ OptiFill dispenser is standard
- ▶ TapWater set for direct connection to a drinking water tap
- ▶ 10-litre pure water tank has a pressure outlet
- ▶ Tank volume display in percent
- ▶ Simple and economical filter replacement
- ▶ Leakage sensor is standard
- ▶ Type ASTM I dispensing performance is 1,6 / 2 l/min.
- ▶ Type ASTM II draw-off is up to 6 l/h / 12 l/h
- ▶ Ready-to use, including filter cartridges  
(Pre-treatment cartridge with RO membrane and ultrapure water cartridge)

The BOECOpure PLUS UV is supplemented with UV-oxidation, 185/254 nm. The BOECOpure PLUS UV/UF is supplemented with an ultrafilter and UV-oxidation, 185/254 nm.



OPTIFILL DISPENSER

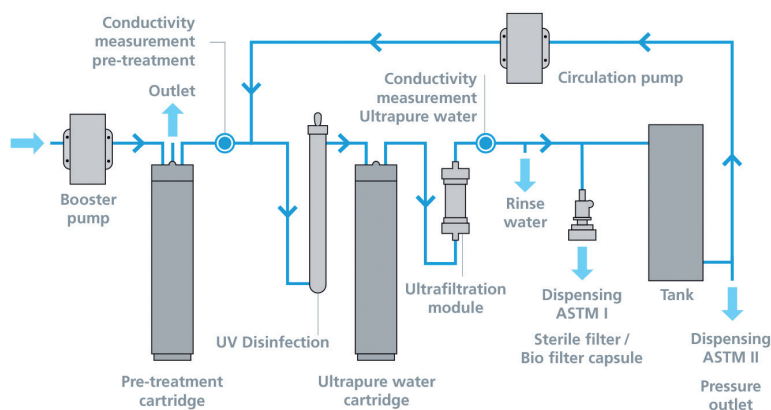
### ASTM Type I Ultrapure water applicable for

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

### ASTM Type II pure water applicable for

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

### BOECOpure PLUS UV/UF Flow chart



Specification BOECOpure PLUS:	Standard	UV	UV/UF
<b>ASTM II</b>			
Pure water performance at 15°C:	6 l/h	6 or 12 l/h	6 l/h
Conductivity:		0.067-0.1 µS/cm	
Resistance:		15-10 MΩ x cm	
Pure water tank pressurized outlet		yes	
<b>ASTM I</b>			
Conductivity:		0.055 µS/cm	
Resistance:		18.2 MΩ x cm	
TOC Value*:	5-10 ppb	1-5 ppb	1-5 ppb
Dispensing performance:	up to 2 l/min	up to 2 l/min	up to 1.6 l/min
Bacterial ** content:		< 1 CFU/ml	
Particles ** content:		< 1 ml	
Endotoxines*			0.001 EU/ml
<b>Feedwater requirements</b>			
Drinking water acc. to DIN 2000			
Feedwater temperature:		+ 2°C up to + 35°C	
Manganese and iron content:		< 0,05 mg/l	
Free chlorine content:		< 1 mg/l	
Silt density index (SDI):		max. 3	
<b>Technical data</b>			
Operating pressure in bar, min./max.		0,5-6 bar	
Supply voltage:		100-240 V / 50-60 Hz	
Connected load:		0.1 kW	
Connector size:		8 mm hose	
Ambient temperature:		+ 2°C up to + 35°C	
Dimensions ***, W x D x H:		390 x 725 x 615 mm	
Weight:		20/21 kg	

\*in dependence on the feedwater quality    \*\*with sterilizing filter 0,2 µm    \*\*\*with OptiFill Dispenser

Code	Description
BOE 8210051	BOECOpure PLUS Standard, 6 l/h Typical application: AAS, IC, ICP, buffers and media preparation
BOE 8210052	BOECOpure PLUS UV, 6 l/h
BOE 8210102	BOECOpure PLUS UV, 12 l/h Typical application: Ultra-trace analysis, ICP-MS, HPLC, TOC
BOE 8210053	BOECOpure PLUS UV/UF, 6 l/h Typical application: Life science and microbiology, cell culture media

#### Accessories / Consumables

Code	Description
BOE 8210005	Pre-treatment cartridge with RO-membrane, 6 l/h
BOE 8210010	Pre-treatment cartridge with RO-membrane, 12 l/h
BOE 8010003	Ultrapure water cartridge
BOE 19111300	Sterile filter capsule 0,2 µm
BOE 8510400	Sterile tank ventilation filter
BOE 8110200	Replacement UV-lamp
BOE 8010051	Replacement Ultrafilter
BOE 8210300	Wall-mount
BOE 16500030	Storage tank, 30 liter, with sterile overflow, sterile vent filter and pressure pump

#### Optional

The Pre-treatment pack for BOECOpure PLUS protects the reverse osmosis module against particulates, dirt, and colloids. For the complete pack the filter housing and prefilter have to be ordered.

Code	Description
BOE 16531110	Filter housing 10" without Pre-filter
BOE 16511100	Pre-filter insert 1 µm, 10"

