

Ultrapure Water Systems - ASTM type I + II, Thermo Scientific

Thermo Scientific Smart2Pure

The direct way from drinking water to high-purity water (> 1 MOhm) and ultrapure water (18.2 MOhm)

Laboratory water supply for a requirement of up to 30 l/day (Smart2Pure 12). The Thermo Scientific Smart2Pure is a compact system which produces ultrapure water (ASTM type I) or high-purity water (ASTM type II) from drinking water. The Smart2Pure models 3 and 6 are equipped with an integrated 6-liter tank for storing high-purity water (type II). The Smart2Pure 12 offers the choice of a 30- or 60-liter tank, depending on the storage requirements. The large range of innovative optional accessories, such as a UV lamp of wavelengths 185/254 nm or a ultra-filter with backflushing option and a flow rate of up to 0.6 l/min. ensure optimum supply of all analytical and bio-scientific applications. With the swivel-mounted display and the easy to change filter, the Smart2Pure is the ideal solution for laboratories requiring small quantities of laboratory water.

Ultra-pure water specifications ASTM Type I:

Removal performance l/min:	1.0
Removal perf. l/min (models with UF):	0.6
Conductivity in $\mu\text{S} \times \text{cm}$:	0.055
Resistance in $\text{M}\Omega \times \text{cm}$:	18.2
TOC-value in ppb (models with UV):	1 – 5
TOC-value in ppb:	< 10
Endotoxin in EU/ml (models with UF):	< 0.001
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, 6 or 12
Conductivity in $\mu\text{S} \times \text{cm}$:	0.1 – 0.067
Resistance in $\text{M}\Omega \times \text{cm}$:	10 – 15

Technical data:

Dimensions (W×H×D):	305 × 545 × 400 mm
Mains connection:	90-240 V/50 Hz, rubber connector 1.8 m
Raw/feed water:	Drinking water, 2 to 6 bar
Feed water connection:	Hose 1.5 m with 8 mm outside diam. and 3/4" inner thread
Waste water connection:	1/4" or 8 mm outside diam., hose 2 m, unpressurized outlet
Weight empty:	max. 26 kg

Permeate production 3 l/h

Article	Typical application	Order No.
Smart2Pure 3	AAS, 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 Monoclonal antibodies, cell culture	10 86 62033

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 Monoclonal antibodies, cell culture	10 86 62063

Permeate production 6 l/h

Article	Typical application	Order No.
Smart2Pure 12	AAS, ICP, standard buffer	10 86 62120
Smart2Pure 12 UF	Micro- and molecular biology, PCR, IVF	10 86 62121
Smart2Pure 12 UV	Trace analysis, HPLC, ICP-MS, IC	10 86 62122
Smart2Pure 12 UV/UF	Molecular biology, PCR, DNS, IVF, Monoclonal antibodies, cell culture	10 86 62123

Accessories on request.

