

smart H₂O for you, and your science



Thermo Scientific Barnstead Smart2Pure water purification systems

Pure water is elemental to the success of your experiments. But

finding the right water system for your research goes deeper than water quality alone. You need a smart choice that supports both your science and your budget— on day 1, and with every cartridge and filter change. One that reflects 130 years of innovations, like effortless cartridge change-outs. With a Thermo Scientific[™] Barnstead[™] lab water system, the only thing you'll have in your water is confidence.

BARNSTEAD SMART2PURE

18.2



Suitable for even the most demanding and sensitive applications, Thermo Scientific[™] Barnstead[™] Smart2Pure[™] water purification systems exceed international standards ASTM D11931 Type 1, ISO 3696 Grade 1, and CLSI-CLRW, delivering ultrapure 18.2 MΩ·cm water with consistent quality.

	Smart2Pure Standard	Smart2Pure UV	Smart2Pure UF	Smart2Pure UV/UF			
Type 1 Water							
Applications examples	AA, IC, standard buffer	HPLC, GC-MS and ICP-MS, TOC Analysis, Trace Analysis	Microbiology, monoclonal antibodies, Cell Culture	Molecular biology, PCR, DNA sequencing, electrophoresis, cell culture media			
Resistivity at 25°C, MΩ·cm	18.2	18.2	18.2	18.2			
Conductivity, µS/cm	0.055	0.055	0.055	0.055			
TOC value , ppb	5 - 10	1 - 5	5 - 10	1 - 5			
Bacterial content in CFU/ml:	<0.01	<0.01	<0.01	<0.01			
Particles, µm/mL	<1	<1	<1	<1			
Endotoxin, EU/mI:	n/a	n/a	<0.001	<0.001			
Flow Rate, L/min	1	1	0.6	0.6			
Type 2 Water							
Applications	Rinsing lab glassware, supplying autoclaves and ultrapure water systems, preparing and diluting buffers, reagents, and tissue culture media.						
Pure water production at 15°C, L/h	3, 6, or 12	3, 6, or 12	3, 6, or 12	3, 6, or 12			
Resistivity at 25°C, MΩ·cm	15-10 10-15	15-10	15-10	15-10			
Conductivity, µS/cm	0.067 - 0.1	0.067 - 0.1	0.067 - 0.1	0.067 - 0.1			

Ideal for your molecular biology, microbiology and analytical chemistry applications:

Type 1 Applications



Cell and tissue culture



PCR, DNA sequencing



Electrophoresis, TOC Measurements, IC



HPLC, GC-MS, ICP-MS, AA

Type 2 Applications



Rinsing lab glassware

Supplying general lab equipment



Preparing and diluting buffers, reagents, and media

Thermo Scientific Barnstead Smart2Pure water purification systems

All in one! The Barnstead Smart2Pure system is a compact system that converts tap water into both ASTM Type I and Type II water. The Smart2Pure 3 and 6 systems feature a built-in 6 L reservoir to store the Type 2 water. The Smart2Pure 12 system offers the choice of a 30 or 60 L reservoir for added storage capacity.

Powerful performance	 Based on your requirements, choose from capacities of 3, 6 or 12 L/hr, dispensing up to 2 L/hr of Type I water.
Smart consumables	 Validated 0.2 µM final filter can be autoclaved up to 5 times. UV-Oxidation 185/254 nm reduces organic compounds in the water to ultra-low levels as well as microorganisms and their metabolites with up to a 2-year lifetime. Available on UV systems only. Internal ultrafilter (UF) is flushed automatically and has a large surface area to ensure the highest retention of endotoxins and nucleases, and allows for up to a 2-year lifetime. Available on UF systems only. Water purification progresses through independent cartridges with Aquastop quick-connect for fast replacement. Module 1 Combination of pretreatment and reverse osmosis membrane. Module 2 Polishing cartridge contains high-quality ultrapure resin designed for consistent purity and long cartridge life.
Easy-to-operate	Dispensing is easy and features variable speed controlled flow.The display can be tilted for optimal reading.
Placement options	Position on laboratory bench or mount it on the wall.
Smart2Pure 3 and 6 systems feature integrated 6 L reservoirs	 Constructed with pigment-free materials. Conical bottom outlet allows for complete draining and efficient cleaning and disinfection.
Smart2Pure 12 system offers 30 or 60 L reservoir options	 Polyethylene reservoir is opaque to light to discourage bacteria growth, and has large opening for easy and effective cleaning. Wall-mount optional for space-savings.
	Received Received



Economical Design

The RO membrane with pretreatment cartridge is separate from the DI cartridge, allowing you to replace each cartridge only as needed



Space-Saving Design

Simply stand the Smart2Pure system on the benchtop or mount it directly to the wall



UV-Oxidation 185/254 nm

Optional UV-oxidation for reducing the content of microorganisms and organics

18.2

Flexible dispensing

Gain increased flexibility by adding a hand dispenser. Dispense water up to 3 m (9.8 ft.) away from unit



Storage Solutions

Flexible Storage

Store high purity water safely and conveniently in either a 30 or 60 L reservoir (only for Smart2Pure 12 system)

30 or 60 L

- Polyethylene reservoir is opaque to light and has large opening for easy and effective cleaning
- Sterile venting filter/reservoir overflow protects against contamination by microorganisms
- CO₂ adsorber prevents airborne contaimination from entering the tank
- Recirculation pump protects the high purity water from bacterial growth during standstills and maintains low conductivity value
- Wall-mount optional for space-savings

nn men

• Conical bottom outlet allows for complete draining and efficient cleaning and disinfection

The following diagram illustrates the flow of water through the components of a Barnstead Smart2Pure water system. This particular diagram uses the Smart2Pure UV/UF system.

System Flow Diagram

quality

Tap water >500 ppm > 1 N.T.U 4 - 11 2-35

1.4 - 87 (1 - 6)



	Smart2Pure	Smart2Pure	Storage R	eservoirs	Required feed water	
	3,6	12	30 L	60 L	nequireu ieeu walei	
Product Dimensions	545x305x390	545x305x300	603x380	914x380	Source	
HxWxD, mm (in.)	(22x12x15)	(22x12x12)	(24x15)	(36x15)	TDS	
Product Weight kg (lbs.) w/o water	21 (46)	20 (44)	8 (18)	15 (33)	Turbidity	
Shipping Dimensions	706x455x430	706x455x430	706x455x430	940x410x495	PH Range	
HxWxD, mm (in.)	(28x18x17)	(28x18x17)	(28x18x17)	(37x16x19)	Temperature, °C	
Shipping Weight kg (lbs.)	24-27 (52-60)	22-25 (48-55)	10 (22)	17 (37)	Pressure, psi (bar)	

ordering information

Small 2002 System policing carring or, serie 0.2 µM filter, and UX hange and/or UL time when a gold as 3, and 6 L /n version also include an internal 6L tark with vent filter, 1 µM filter, and UX hange and/or UL time when a gold as, and b L /n version also include an internal 6L tark with vent filter, 1 µM filter, 1 µM filter, Prolong a carring ite, ships with filter housing and 1 µM filter. 5012987 <th colspan="2">System Options</th> <th>Permeate flow at 15°C</th> <th>Smart2Pure Standard</th> <th>Smart2Pure UV</th> <th>Smart2Pure UF</th> <th>Smart2Pure UV/UF</th>	System Options		Permeate flow at 15°C	Smart2Pure Standard	Smart2Pure UV	Smart2Pure UF	Smart2Pure UV/UF		
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