



**Thermo Scientific
Barnstead LabTower TII
Water Purification Systems**

smart H₂O
for you, and your science

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APPLICATIONS

- RINSING LAB GLASSWARE
- SUPPLYING GENERAL LAB EQUIPMENT
- PREPARING AND DILUTING BUFFERS, REAGENTS, AND MEDIA

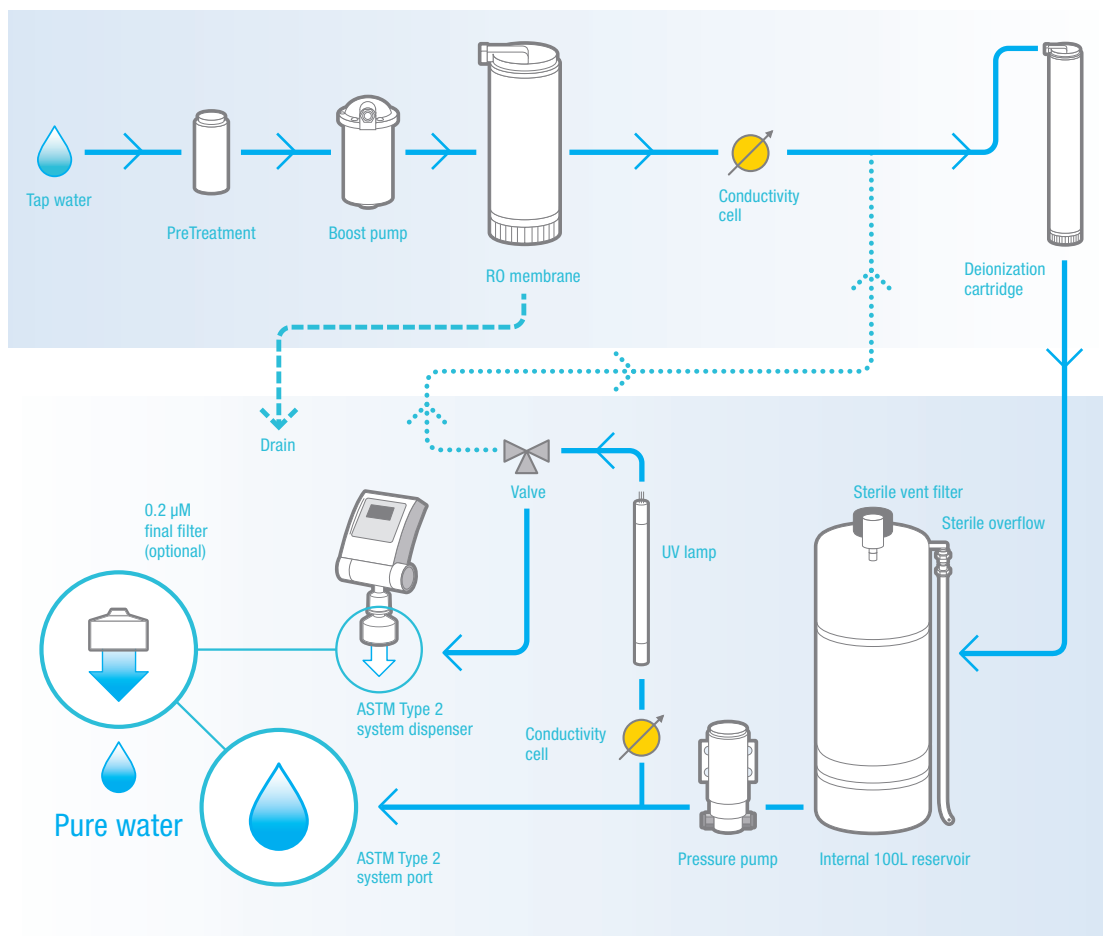
Thermo Scientific Barnstead LabTower TII water purification systems

Barnstead LabTower TII water purification systems

convert tap water into high purity water and provide an integrated storage solution.

	LabTower TII	LabTower TII UV
Pure water production at 15 °C, L/h	20, 40 or 60	20, 40 or 60
Resistivity at 25 °C, MΩ·cm	10 - 1	10 - 1
Conductivity, µS/cm	0.1 - 1.0	0.1 - 1.0
TOC, ppb	<50	<50
Bacteria content with sterile filter, CFU/mL	<1	<1
Particle content (0.2 µm) per mL with sterile filter	<1	<1

This diagram illustrates the flow of water through the components of a Barnstead LabTower TII UV water system.



*Barnstead LabTower TII
Systems produce high purity water that
exceeds international standards
(ASTM Type II, CAP, ISO 3696 and CLSI)*

Barnstead LabTower TII System Features

Compact mobile design

- Three system options with permeate flows of 20, 40 and 60 L/hr
- Stand-alone design with integrated 100 L reservoir takes up zero bench space
- Castors allow easy relocation

Operational reliability

- Microprocessor controlled for automatic operation with continuous monitoring of all critical parameters
- Automatic return to stand-by mode designed to ensure recirculation during standstill periods
- Optional UV lamp designed to prevent biological contamination

GLP-Compliant documentation

- Optional printer connects to RS-232 port for data recording and traceability
- Cell constant of 0.01 cm⁻¹ help to ensure precise conductivity measurements
- Temperature compensation for the conductivity measurement has an accuracy of ± 0.1 °C

Easy-to-operate

- Resistivity/conductivity clearly displayed on large back-lit control panel that tilts for optimum viewing
- Reservoir fill-level shown as % full
- System parameters are code-protected to help prevent accidental changes to set points
- Water can be dispensed from the system and from the 100 L reservoir

Integrated 100 L reservoir

- Up to 100 L high purity water safely and conveniently ready for dispensing when needed
- Safety filters include a CO₂ adsorber designed to prevent conductivity increases from drawn-in CO₂. Sterile overflow helps to prevent microorganisms from entering and contaminating reservoir water
- Polyethylene reservoir is constructed with inert materials opaque to light
- Recirculation pump recirculates reservoir water designed to protect the high purity water from bacterial growth during standstill while maintaining a low conductivity value



Specifications

	LabTower TII	LabTower TII UV
Product Dimensions HxWxD, mm (in.)	1500 x 450 x 580 (59 x 18 x 23)	1500 x 450 x 580 (59 x 18 x 23)
Product Weight w/o water, kg (lbs.)	77 (170)	78 (172)
Shipping Dimensions HxWxD, mm (in.)	1210 x 1200 x 800 (48 x 48 x 32)	1210 x 1200 x 800 (48 x 48 x 32)
Shipping Weight kg (lbs.)	86 (190)	87 (191)

Required Feed Water Quality	
Source	Tap water
Conductivity, µS/cm	<1500
SDI	Max. 3
pH Range	4 - 11
Temperature, °C	2 - 35
Pressure, psi (bar)	29 - 87 (2 - 6)

Ordering information

LabTower TII System Options		LabTower TII 20	LabTower TII 40	LabTower TII 60
All systems include an RO membrane, a high purity water cartridge, 10 inch 5 µm prefilter with hardness stabilizer cartridge, pressure regulator, 0.2 µm filter, integrated 100 L reservoir and UV lamp where applicable.	System with UV	50132193	50132141	50132394
	System without UV	50132191	50132196	50132393

Required Accessories				
LabTower TII Pretreatment Both cartridges are required for complete pretreatment.	5µm filter with activated carbon and a 10" filter housing		50134022	
	1µm filter with a 10" filter housing		09.4003	
Sterile overflow for reservoir			50132714	
Sterile vent filter for reservoir			50135142	

Optional Accessories				
Hand dispenser kit Hand dispenser with 3 meter tubing that connects to reservoir. Ships with a 0.2 micron final filter.			50138221	
Printer Utilizes RS-232 interface for safe documentation of all measured values and faults with date and time in compliance with GLP-Guidelines.	120V, 50/60Hz		AY1137X1	
	230V, 50Hz		09.2207	
UV lamp assembly for the reservoir, 230V (not sold in U.S.) Ships complete with assembly and UV lamp.			06.5006	

Replacement Consumables				
RO membrane LabTower TII 20 and 40 require two membranes, and LabTower TII 60 requires four membranes, as indicated.	22.0046 (must order 2)	22.0087 (must order 2)	22.0087 (must order 2) and 22.0046 (must order 2)	
High purity water cartridge		02.2850-LAB		
Sterile 0.2 µm filter		09.1003		
Cleaning solution		CMX25		
Activated carbon cartridge with 5 µm prefilter (For 50134022)		06.5201		
1 µm filter (For 09.4003)		06.5101		
5 µm prefilter and hardness stabilizer		06.5204		
System UV lamp		50139226		
Reservoir UV lamp (For reservoir option, 230V only)		09.5002		



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