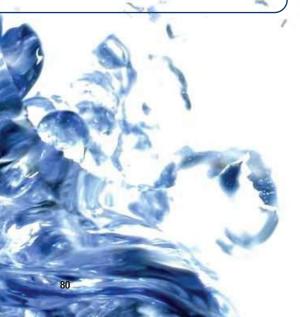
Thermo Scientific Barnstead LabTower RO water purification system

The Barnstead LabTower RO Converts Tap Water into RO Water and stores it in an integrated 100 L reservoir



ROUTINE LABORATORY WORK:

- Rinsing lab glassware
- Supplying autoclaves, water baths, incubators and glassware washers
- Preparing and diluting buffers and reagents
- General biotechnology



Advanced technology in a mobile design

- · An ultra-modern controller provides easy-to-read system parameters
- Completely drainable integrated 100 L high-purity water reservoir has a low-noise pressure booster as a standard component
- Mounted on casters, the compact LabTower RO system is an ideal pure water supply for any laboratory. Ideally suited as a feed water source for dishwashers, autoclaves and general laboratory use
- A built-in pretreatment unit, consisting of a hardness stabilizer for protection of the reverse osmosis module from hardness formers
- An activated carbon/5µm combi-cartridge protects the system against free chlorine and particles, ensures the long service life of downstream purification stages

Compact and mobile design

- Two system options with permeate flows of 20 or 40 L/h
- Stand-alone design with integrated 100 L tank takes up ZERO bench space
- · Casters allow for easy relocation
- · Systems can be upgraded later to accommodate growing water capacity demands

Integrated 100 L reservoir

- 100 L RO water storage in a high-purity polyethylene PE opaque reservoir
- Adjustable reservoir volume can be programmed for times of low demand
- Dispense from the reservoir to supply autoclaves, glassware washers, incubators, etc

Easy-to-operate clear display

- Resistivity/conductivity clearly displayed on large back-lit control panel that tilts for optimum viewing
- Status of current operating mode clearly indicating "production", "stand-by", or "cleaning" modes
- Reservoir fill-level shown as %
- System parameters are code-protected to prevent accidental changes to set points

GLP-compliant documentation

- Developed to fulfill GLP requirements
- Recorded and traceable data can be obtained by print out via the RS-232 interface and accessory printer
- Highly qualified and precise measurement of the conductivity is ensured by the cell constant of 0.16 cm⁻¹

Quick Look Comparison	LabTower RO 20	LabTower RO 40
Pure water production at 15°C , L/hr	20	40
Withdrawal performance from reservoir at 1.5 bar, L/hr	180	180
Retention quota for inorganics, %	> 98	> 98
Bacteria content, %	> 99	> 99
Retention quota for particles, %	> 99	> 99

RO water delivered

from an integrated system

Feed Water Requirement	s*
Source	Potable tap water that has been softened or hardness stabilized
Silt density index (SDI)	< 5. With higher values a pretreatment (model no. 09.4000) must be installed upstream of the system.
Conductivity, µS/cm	< 1500
Free chlorine, mg/L	<0.1
pH-Range	4-11
Temperature, °C	2-35

^{*}complete list of feed water specifications can be found in the operational manual

LabTower RO Product	Specifications				
Operating pressure	Electrical requirements	Power consumption	Feed water connector	Dimensions W x D x H	Temperature
29-87 psi (2-6 bar)	90-240V, 50/60Hz	0.25kW	3/4" NPT	17.7 x 22.8 x 59 in (450 x 580 x 1500 mm)	2-35°C

LabTower RO Systems* All systems include an RO membrane(s), integrated 100 L reservoir, and pressure regulator					·	
All systems include an RO membrane(s), integrated 100 L reservoir, and pressure regulator Required Accessories Pretreatment cartridges Both are required for complete pretreatment solution Sterile vent filter for reservoir Sterile overflow for reservoir overflow filter foliation filter 120V, 50/60Hz AY1137X1 AY1137		LabTow RO 60	LabTower RO 40	LabTower RO 20		ystem Options
Pretreatment cartridges Both are required for complete pretreatment solution Sterile vent filter for reservoir Sterile vent filter for reservoir Sterile overflow for reservoir Sterile overflow for reservoir Sterile overflow for reservoir Optional Accessories Printer Utilizes RS-232 interface for safe documentation of all measured values and faults with date and time in compliance with GLP guidelines UV lamp assembly for the reservoir with lamp, 230V, 50Hz only Hand Dispenser Kit Hand dispenser Kit And dispenser with 3 meter cord that connects to tank. Ships with a 0.2 micron final filter. Replacement Consumables Reverse Osmosis membrane LabTower Til 20 and 40 require two membranes, and LabTower Til 60 requires four membranes, as indicated Sum filter with activated carbon and a 10 inch filter housing 50134022 50134022 50134022 50134022 50134022 50134022 50135142 50135142 50132714 50132714 50132714 AY1137X1 AY137X1 AY1137X1 AY113Y1 AY113Y1 AY113	32392	5013239	50132391	50132390		systems include an RO membrane(s),
Pretreatment cartridges Both are required for complete pretreatment solution 1µm filter with a 10 inch filter housing 10 inch filter 10 inch filter housing 10 inch filter 10 inch fi						equired Accessories
Sterile vent filter for reservoir 50135142 50135142 50135142 50135142 50135142 50135142 50135142 50135142 50132714 501327	34022	5013402	50134022	50134022		
Sterile overflow for reservoir 50132714	4003	09.4003	09.4003	09.4003	1µm filter with a 10 inch filter housing	our are required for complete pretreatment solution
Optional Accessories 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 230V, 50Hz 09.2207 09.220	35142	50135142	50135142	50135142		erile vent filter for reservoir
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 230V, 50Hz 09.2207 09	32714	5013271	50132714	50132714		erile overflow for reservoir
RS-232 interface for safe documentation of all measured values and faults with date and time in compliance with GLP guidelines ### 120v, 50/BdP2 ### 230v, 50Hz ### 16.0129 ###						ptional Accessories
UV lamp assembly for the reservoir with lamp, 230V, 50Hz only 09.2207	137X1	AY1137X	AY1137X1	AY1137X1	120V, 50/60Hz	6-232 interface for safe documentation of all measured
Water watcher Alerts the user to leaks. Available as 240V only. Hand Dispenser Kit Hand dispenser with 3 meter cord that connects to tank. Ships with a 0.2 micron final filter. Replacement Consumables Reverse Osmosis membrane LabTower TII 20 and 40 require two membranes, and LabTower TII 60 requires four membranes, as indicated 10" 5µm filter with hardness stabilizer cartridge Replacement reservoir UV Lamp (230V, 50Hz only) Europe/Asia Pacific North America/Latin America 16.0129 16.	2207	09.2207	09.2207	09.2207	230V, 50Hz	
Alerts the user to leaks. Available as 240V only. Hand Dispenser Kit Hand dispenser with 3 meter cord that connects to tank. Ships with a 0.2 micron final filter. Replacement Consumables Reverse Osmosis membrane LabTower TII 20 and 40 require two membranes, and LabTower TII 60 requires four membranes, as indicated 10" 5µm filter with hardness stabilizer cartridge Replacement reservoir UV Lamp (230V, 50Hz only) Cleaning solution 16.0129 16.0129 50138221	5006	06.5006	06.5006	06.5006	OHz only	lamp assembly for the reservoir with lamp, 230V, 5
Hand dispenser with 3 meter cord that connects to tank. Ships with a 0.2 micron final filter. Replacement Consumables Reverse Osmosis membrane LabTower TII 20 and 40 require two membranes, and LabTower TII 60 requires four membranes, as indicated 10" 5µm filter with hardness stabilizer cartridge Replacement reservoir UV Lamp (230V, 50Hz only) Cleaning solution Solution 50138221 50138221	0129	16.0129	16.0129	16.0129		
Reverse Osmosis membrane LabTower TII 20 and 40 require two membranes, and LabTower TII 60 requires four membranes, as indicated 10" 5µm filter with hardness stabilizer cartridge Replacement reservoir UV Lamp (230V, 50Hz only) Cleaning solution 22.0046 (must order 2) (must order 2) (must order 2) (must order 2) (22.0087 (must order 2) (must order 2) (must order 2) (must order 2) (pust orde	38221	5013822	50138221	50138221	os with a 0.2 micron final filter.	
LabTower TII 20 and 40 require two membranes, and LabTower TII 60 requires four membranes, as indicated 10" 5µm filter with hardness stabilizer cartridge Replacement reservoir UV Lamp (230V, 50Hz only) Cleaning solution Europe/Asia Pacific North America/Latin America CMX25						eplacement Consumables
Replacement reservoir UV Lamp (230V, 50Hz only) 09.5002 09.5002 09.5002 09.5002		22.0087 (must or 22.0046 (must o			ver TII 60 requires four membranes,	bTower TII 20 and 40 require two membranes, and LabTov
Cleaning solution Europe/Asia Pacific 09.2202 09.2202 09.2 North America/Latin America CMX25 CMX25 CMX25	5204	06.5204	06.5204	06.5204		" 5µm filter with hardness stabilizer cartridge
Cleaning solution North America/Latin America CMX25 CMX25 CMX	5002	09.5002	09.5002	09.5002		eplacement reservoir UV Lamp (230V, 50Hz only)
North America/Latin America CMX25 CMX25 CMX	2202	09.2202	09.2202	09.2202	Europe/Asia Pacific	eaning colution
1 um filter prefiter for .09 4003	1X25	CMX25	CMX25	CMX25	North America/Latin America	canning solution
00.0101	5101	06.5101	06.5101	06.5101		ım filter prefilter for 09.4003
5μm prefilter + activated carbon 10 inch cartridge 06.5201 06.5201 06.5201	5201	06.5201	06.5201	06.5201		ım prefilter + activated carbon 10 inch cartridge