**Thermo Scientific Barnstead
Clinical Feed Water Systems**

consistently pure water
for your clinical analyzers

Thermo
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Designed to produce consistently pure water, to help you achieve fast, accurate test results

Thermo Scientific™ Barnstead™ clinical water purification systems feed your analyzers with reliable, pure water according to Clinical Laboratory Reagent Water (CLRW) standards.

- Reliable results
- Enhanced security with emergency bypass system
- Optimized for cost efficiency

These complete solutions are ready to use the day you receive your system, including everything from filters to accessories, for easy and economical ordering. All Barnstead clinical feed water systems feature an emergency bypass, designed to help you avoid any loss of production.

Trusted service when you need it

Your clinical analyzer runs all the time, so our clinical feed water systems are designed to do the same. If an issue arises, our service team is here to help get you back up and running. In most cases, service is available 24 hours a day, 7 days a week. Contact your Unity Lab Services representative or an authorized dealer for more information.

Barnstead clinical feed water systems offer innovative features that allow you to focus on your science.

Modular design

Upgrade from 60 L to 140 L by adding another RO membrane.

Quick-connect consumables

Easily replace consumables, such as filters, with quick-connecters.

Fully automatic operation

Simply attach the potable tap water source to your system for it to begin automatic pure water production.

Small footprints

Free-standing units take up no bench space and can be easily relocated with bottom-mounted rollers.

All units are ready-to-use, equipped with installation kit, pre-filtration, UV-lamp, RO membranes, end filters and emergency bypass system.

Barnstead™ Pacific™ AFT bench-top clinical feed water system

- Choice of 30 or 60 L tank, including recirculation/pressure pump and level control (UV lamp optional)
- Flow rates of 3,7,12,20 and 40 LPH at 15°C water temperature
- Emergency switch for security

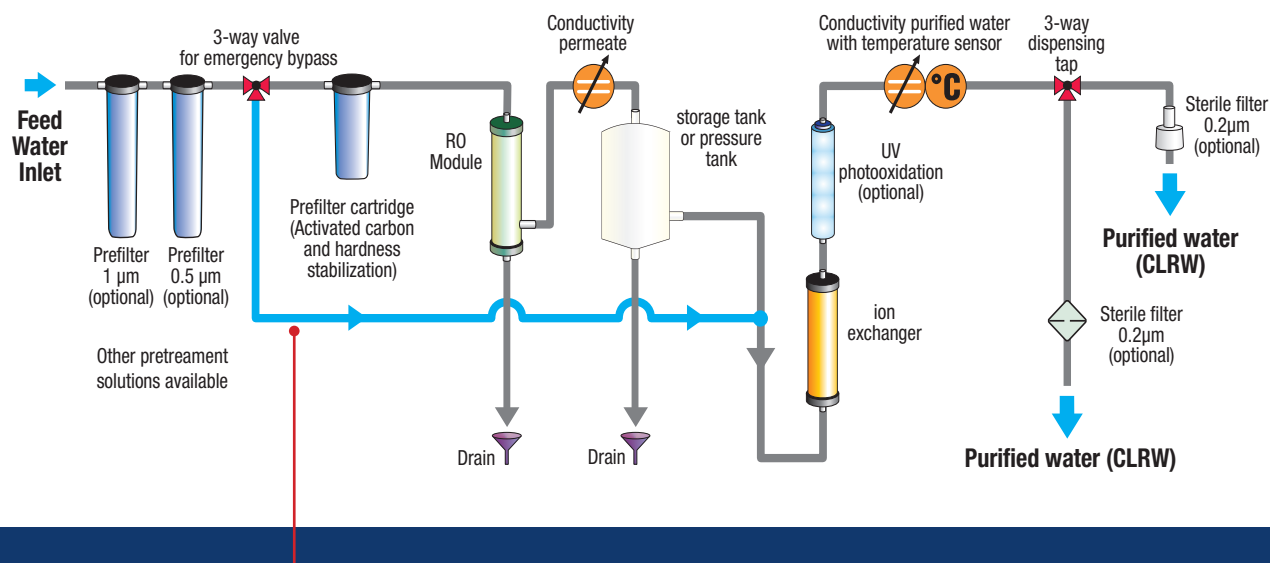## Barnstead™ LabTower™ AFT floor-standing clinical feed water system

- Integrated 100 L tank
- Large deionization canisters with 2800 L capacity at 10 °dH
- Flow rates of 20 and 40 LPH at 15°C water temperature
- Emergency switch for security

Barnstead™ MediTower™ floor-standing clinical feed water system

- Integrated pressure tank with 20 L capacity (MediTower 140 has 2 tanks), including pressure pump
- Upgradeable from 60 to 140 L
- Large deionization canisters with 2000 L capacity at 10 °dH
- Flow rates of 60, 120 and 140 LPH at 15°C water temperature
- Emergency switch for security

Continuous analysis of your samples

Emergency bypass system for enhanced security

Maximum operational security and reliability are standard due to an innovative bypass design. In the event of a system failure, you can easily flip a switch to transition to ion exchanger mode. The supply of high purity water is maintained without interruption and is independent of the other purification stages. An optional monitoring sensor is available with audible and visual alarms, as well as automatic system shut-off, if needed.

specifications

Thermo Scientific Barnstead Clinical Feed Water Systems			
Water System Specifications	Pacific AFT 3-40	LabTower AFT 20/40	MediTower 60/120/140
Typical Conductivity	0.1-1.0	0.1-1.0	0.1-1.0
Bacteria Removal	99%	99%	99%
Rated Power (kW)	0.1	0.25	0.3
Operating Voltage (V/Hz)	230/50 (115/60)	230/50 (115/60)	230/50 (115/60)
Operating Pressure, (bar) min./max.	2/6	2/6	2/6
Dimensions (W x D x H mm)	372 x 330 x 615	450x580x1500	560 x 660 x 1380
Weight (kg)	24-26	66	150

Feed Water Requirements	
Hardness	Hardness stabilized potable Water
Manganese and Iron	< 0.05 mg/L
Salts Content Max.	2000 mg/L
Free Chlorine Content	< 0.01 mg/L
Colloid Index Max.	3
Temperature	1-30 °C
Pressure	2-6 bar

Larger systems for centralized production of CLRW are available on request.

ordering information

Pacific AFT Clinical Feed Water Systems	
50135178	Pacific 3 LPH AFT with emergency switch, UV lamp
50135249	Pacific 7 LPH AFT with emergency switch, UV lamp
50135250	Pacific 12 LPH AFT with emergency switch, UV lamp
50135264	Pacific 20 LPH AFT with emergency switch, UV lamp
50135267	Pacific 40 LPH AFT with emergency switch, UV lamp

LabTower AFT Clinical Feed Water Systems	
50135466	LabTower AFT 20 LPH with pre-treatment, storage tank 100 liters and pressure pump, emergency switch, UV lamp
50135467	LabTower AFT 40 LPH with pre-treatment, storage tank 100 liters and pressure pump, emergency switch, UV lamp

MediTower Clinical Feed Water Systems	
50130993	MediTower 60 LPH AFT with pressure tank 25 liters, degassing membrane, leak water sensor, UV lamp
50131060	MediTower 120 LPH AFT with pressure tank 25 liters, degassing membrane, leak water sensor, UV lamp
50134970	MediTower 140 LPH AFT with pressure tank 25 liters, degassing membrane, leak water sensor, UV lamp

Softener	
50130297	Mix Multi Mini Softener Capacity at 10° dH 2000 liters
50130298	Mix Multi XL Softener Capacity at 10° dH 5000 liters

General and Pretreatment Accessories and Consumables	
09.4000	Pre-treatment complete
06.2000	Bag of salt – 25 kg for softener
16.0129	Aqua-stop with magnetic valve
06.1000	Hardness measuring kit

MediTower Accessories and Consumables	
02.2050-RDS	DI 2000 ion exchanger cartridge
10.2017	2 x 17 liters disposable resin for no. 02.2050 or 02.2050-RDS
09.5002	Replacement UV lamp
06.5452	Hardness stabilizer 10"
06.5201	Combi cartridge 5 µm + activated carbon - 10"
06.5555	Sterile filter 0.2 µm

Pacific AFT Accessories and Consumables	
09.4011	Filter cartridge
06.5201	Combi cartridge 5 µm + activated carbon - 10"
06.5452	Hardness stabilizing unit - 10"
09.4002	Replacement UV lamp
06.5031	Storage tank 30 liter as bench top with level-control including pressure pump
06.5061	Storage tank 60 liter as bench top with level-control including pressure pump
06.5001	Sterile overflow for storage tank
06.5002	CO_2 Adsorber + vent filter for storage tank
50135142	Sterile vent filter for storage tank
06.5006	UV light for tank
06.5015	Wall-mounting for storage tank 30 liters
06.5016	Wall-mounting for storage tank 60 liters

LabTower AFT Accessories and Consumables	
06.5204	Combi cartridge 5 µm + hardness stabilizing 10"
50132714	Sterile overflow for storage tank
50135142	Sterile vent filter for storage tank
50135141	Filter housing 10" for pressure outlet
06.5101	Pre filter 1 µm - 10" for pressure outlet
06.5555	Sterile filter 0.2 µm – 10" for pressure outlet
09.1003	Sterile filter capsule 0.2 µm for Dispenser
09.4002	Replacement UV lamp for unit
06.5006	UV light for storage tank
09.5002	Replacement UV lamp for tank UV-housing no. 06.5006
02.2850-RDS	DI 2800 ion exchange cartridge
10.2022	2 x 22 liters disposable resin for no. 02.2800 or 02.2800-RDS

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