



Thermo Scientific  
Barnstead Pacific TII  
Water Purification Systems

**smart H<sub>2</sub>O**

for you, and your science

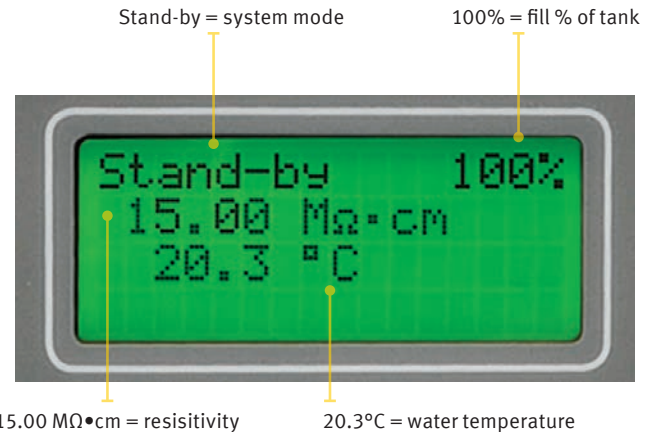
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## APPLICATIONS

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

# Thermo Scientific Barnstead Pacific TII water purification systems

Pure water production at 15°C, L/h	3, 7, 12, 20, or 40
Resistivity at 25°C, MΩ•cm	10 - 15
Conductivity, μS/cm	0.1 - 0.067
TOC, ppb	<30
Removal, bacteria and particles, %	99



## Multiple options for Type 2 water

- Converts tap water into high purity Type 2 water
- Up to 200 L/day of pure water for applications such as sample preparation or glassware rinsing
- Five permeate flow options of 3, 7, 12, 20, or 40 L/hr (UV lamp available for each flow option)
- Bench or wall mountable

## Smart consumables

- The high performance reverse osmosis membrane is designed to remove approximately 98% of inorganic ions and 99% of all dissolved organic substances, as well as microorganisms and particles
- High purity water cartridge further purifies the reverse osmosis permeate to produce high purity water
- UV photo-oxidation at 254 nm controls microorganisms up to a 2-year lifetime (available on UV systems only)

## Easy-to-operate

- Temperature compensated resistivity/conductivity with accuracy of  $\pm 0.1^\circ\text{C}$
- Back-lit display, tiltable for easy viewing
- Reservoir fill-level indicated
- System parameters are code-protected, designed to prevent accidental changes to set points
- Water is dispensed directly from storage tank
- Optional printer for data recording and traceability
- Precise conductivity cell constant of 0.01 cm<sup>-1</sup>
- Microprocessor controlled continuous monitoring of all critical parameters

## Pacific TII reservoirs

- Inert polyethylene reservoir stores high purity water safely
- Optional safety filters include a CO<sub>2</sub> adsorber to prevent conductivity increases from drawn-in CO<sub>2</sub>. Sterile overflow prevents microorganisms from entering and contaminating reservoir water
- Wall mount optional for space-saving option (30 L and 60 L only)
- Recirculation of the water between the storage reservoir and Pacific TII system maintains water quality



Reservoir with conical bottom outlet allows complete draining

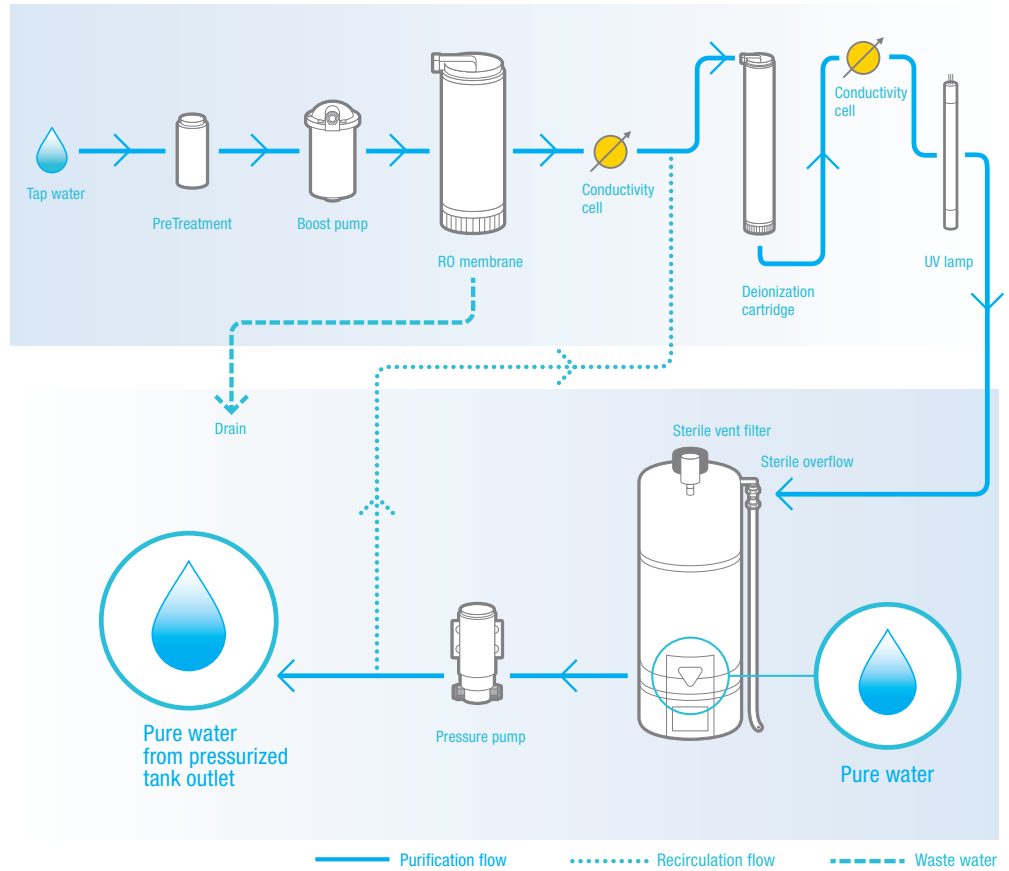


Easy to operate with current status of system clearly indicated



Easy cartridge replacement

The following diagram illustrates the flow of water through the components of a Barnstead Pacific TII UV water system.



Barnstead Pacific TII water purification systems produce high purity water as required by international standards (ASTM Type II, CAP, ISO 3696 and CLSI)

	Pacific TII	Pacific TII UV	Storage Reservoirs		
			30 L	60 L	100 L
<b>Product Dimensions</b> H x W x D, mm (in.)	603 x 372 x 330 (24 x 15 x 13)		603 x 380 (24 x 15)	914 x 380 (36 x 15)	1249 x 380 (49 x 15)
<b>Product Weight</b> kg (lbs.) w/o water	25 (51)		8 (18)	15 (33)	17 (38)
<b>Shipping Dimensions</b> H x W x D, mm (in.)	800 x 600 x 600 (32 x 24 x 24)		706 x 455 x 430 (28 x 18 x 17)	940 x 410 x 495 (37 x 17 x 20)	1340 x 800 x 510 (53 x 32 x 20)
<b>Shipping Weight</b> kg (lbs.)	29 (64)		10 (22)	17 (38)	19.5 (43)

Required Feed Water Quality	
<b>Source</b>	Tap water
<b>Free Chlorine</b>	<0.1 mg/L
<b>Conductivity, <math>\mu\text{S/cm}</math></b>	<1,000
<b>SDI</b>	<3
<b>pH Range</b>	4 - 11
<b>Temperature, <math>^{\circ}\text{C}</math></b>	2 - 35
<b>Pressure, psi (bar)</b>	29 - 87 (2 - 6)

## Ordering information

Pacific TII System Options		Pacific TII 3	Pacific TII 7	Pacific TII 12	Pacific TII 20	Pacific TII 40
All systems have a built-in wall bracket and include an RO membrane, a high purity water cartridge, and pressure regulator. UV lamp also included on applicable units.	System with UV	50132129	50132131	50132132	50131982	50132133
	System without UV	50132121	50132123	50132124	50132125	50132127

Required Accessories	
<b>Pacific TII Reservoir</b> Choose a reservoir that fits your needs.	See "Storage Reservoir Options"
<b>Double cartridge pretreatment system</b> A 5 µm filter with activated carbon cartridge and a hardness stabilizer cartridge ship complete with two 10 inch filter housings with wall brackets. Used to control chlorine, organic impurities, particulates and control hardness for feed water with <250ppm TIS.	09.4000

Optional Accessories		
<b>Hand Dispenser Kit</b> Hand dispenser with 3 meter tubing that connects to reservoir. Ships with a 0.2 micron final filter.	50138221	
<b>Printer</b> 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

Replacement Consumables					
<b>RO membrane</b> Pacific TII 3, 7, 12 systems only require a single RO membrane. Pacific TII 20 and 40 systems require two membranes as indicated.	22.0046	22.0046	22.0046	22.0046 (order 2)	22.0087 (order 2)
<b>High purity water cartridge</b>	09.4011				
<b>System UV lamp</b> For UV systems only.	50139226				
<b>Cleaning solution</b>	CMX25				
<b>Activated carbon cartridge with 5 µm prefilter</b>	06.5201				
<b>Hardness stabilizer cartridge</b>	06.5452				

Storage Reservoir Options for Pacific TII systems		30L	60L	100L
<b>Storage reservoir</b> Choose a reservoir to meet your capacity needs. Water in reservoir should be used every 1-2 days.	with level display	06.5033	06.5063	06.5083
	with level display and recirculation/pressure pump	06.5032	06.5062	06.5082

Required Accessories	
<b>Sterile overflow for reservoir</b>	06.5001
<b>CO<sub>2</sub> adsorber + sterile filter, 0.2 µM</b>	06.5002

Optional Accessories			
<b>UV lamp assembly for the reservoir, 230 V (not sold in U.S.)</b> Ships complete with assembly and UV lamp.	06.5006		
<b>Wall mounting bracket</b>	06.5015	06.5016	n/a
Replacement Consumables			
<b>UV lamp (for reservoir)</b>	09.5002		

[thermoscientific.com/purewater](http://thermoscientific.com/purewater)



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