

Thermo Scientific Water Purification Systems

Pure Water Systems



Thermo Scientific Barnstead Pacific TII pure water purification systems

The Thermo Scientific Barnstead Pacific TII water purification systems support daily requirements from 20 to 200 liters Type 2 water using tap water as feed source. A 30, 60, or 100L polyethylene reservoir is required to store and dispense the pure water.

Product features:

Multiple options for Type 2 water

Five system options with permeate flows of 3, 7, 12, 20, or 40L/hr. Future system upgrades accommodate greater capacities to meet growing water demands. Space-saving design permits benchtop installation or wall mounting with integrated mounting bracket.

Operational reliability

Microprocessor controlled for automatic operation with continuous monitoring of all critical parameters. Automatic return to “operating” mode ensures recirculation during standstill periods. Optional UV lamp prevents biological contamination.

Easy-to-operate

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”, “cleaning” modes. Reservoir fill-level shown as %. System parameters are code-protected to prevent accidental changes to set points.

GLP-Compliant documentation

Optional printer connects to RS-232 port for data recording and traceability. Cell constant of 0.01cm⁻¹ ensures precise conductivity measurements. Temperature compensation for the conductivity measurement has an accuracy of ±0.1°C (in conformity with USP 645).

Specifications:

Permeate flow rate at 15°C	3, 7, 12, 20 or 40 L/hr depending on model
Operating pressure	2 to 6 bar
Permeate conductivity	0.067-0.1 µS/cm
Permeate resistance at 25°C	15-10 MΩ.cm
Conductivity	0.067 µS/cm
Removal bacteria & particles	99%
TOC	1 < 30 ppb
Temperature	2° - 35°C
Electrical Requirements	90-240V/50 Hz
Power Consumption	0.08 kW
Feedwater connector	R 3/4 inch
Dimensions WxDxH	372x330x603 mm
Dimensions reservoir D x H	380 x 598 (30 L), 380 x 912 (60L) or 380 x1249 mm (100L)

Ordering information

System Options	UV option	Pacific TII 3	Pacific TII 7	Pacific TII 12	Pacific TII 20	Pacific TII 40
Pacific TII Systems All systems have a built-in wall bracket and include an RO membrane, a high purity water cartridge, pressure regulator, and UV lamp where applicable	System with UV	50132129	50132131	50132132	50131982	50132133
	System without UV	50132121	50132123	50132124	50132125	50132127
Required Accessories						
Pacific TII Reservoir Choose a reservoir that fits your needs		See "Storage Reservoir Options" below				
Double cartridge pretreatment system A 5 µm filter with activated carbon cartridge and a hardness stabilizer cartridge ship complete with two 10 inch filter housings to control chlorine, organic impurities and control hardness <250ppm TIS For full pretreatment options, see p. 86		09.4000				
Optional Accessories						
Qualification documents (IQ00)		IQ00CE50133915	IQ00CE50133915	IQ00CE50133915	IQ00CE50133915	IQ00CE50133915
Water watcher Alerts the user to leaks – available as 230V only		16.0129	16.0129	16.0129	16.0129	16.0129
Printer Utilizes RS-232 interface for safe documentation of all measured values and faults with date and time in compliance with GLP-Guidelines	110V	AY1137X1	AY1137X1	AY1137X1	AY1137X1	AY1137X1
	230V	09.2207	09.2207	09.2207	09.2207	09.2207
Replacement Consumables						
High purity water cartridge		09.4011	09.4011	09.4011	09.4011	09.4011
Reverse Osmosis membrane Pacific TII 3, 7, 12 only require a single RO membrane Pacific TII 20 and 40 require two membranes as indicated		22.0046	22.0046	22.0046	22.0046 (order 2)	22.0087 (order 2)
System UV lamp		09.4002	09.4002	09.4002	09.4002	09.4002
Cleaning solution	Europe/Asia Pacific	09.2202	09.2202	09.2202	09.2202	09.2202
	North America	CM025	CM025	CM025	CM025	CM025
Activated carbon cartridge with 5 µm prefilter		06.5201	06.5201	06.5201	06.5201	06.5201
Hardness stabilizing cartridge		06.5452	06.5452	06.5452	06.5452	06.5452
Storage Reservoir Options for Pacific TII				30 L	60 L	100 L
Reservoir Choose a tank to meet your capacity and pump		with level display		06.5033	06.5063	06.5083
		with level display and recirculation pump		06.5032	06.5062	06.5082
Required Accessories						
Sterile overflow for reservoir				06.5001	06.5001	06.5001
Vent filter Choose the vent filter for your application needs		Sterile filter, 0.2 µm		06.5003	06.5003	06.5003
		Sterile filter, 0.2 µm + CO ₂ absorber		06.5002	06.5002	06.5002
Optional Accessories						
UV lamp assembly for reservoir with lamp, 230V				06.5006	06.5006	06.5006
Wall mounting bracket				06.5015	06.5016	na
Replacement Consumables						
Replacement UV lamp (Reservoir)				09.5002	09.5002	09.5002