

Thermo Scientific Water Purification Systems

Ultrapure Water Systems



Thermo Scientific Barnstead GenPure ultrapure water purification systems

The Thermo Scientific Barnstead GenPure systems deliver ultrapure 18.2 M Ω .cm water from pretreated feed water for the most demanding and sensitive applications. Applications include molecular biology and microbiology, cell and tissue culture, PCR, DNA sequencing, electrophoresis and analytical chemistry: HPLC, GC, GC-MS, ICP-MS, AA, IC, TOC measurements. GenPure systems product water quality exceeds international standards ASTM Type I, ISO 3696 Grade1, ASTM D1193 and CLSI-CLRW.

Product features:

Tilting control panel for easy viewing: the ergonomically designed controller tilts for the ease-of-use and better visibility and has a four line alpha-numeric display.

Integrated feed water monitoring: additional measuring cell monitors feed water conductivity. If the quality of the feed water drops below the set value, a fault message is immediately displayed

Online TOC measurement with UV intensity monitoring: real-time TOC monitoring for continual measurement of organic substances present in the water. Continuous monitoring of UV intensity removes the risk of false TOC values due to diminished UV intensity. Fault message alerts user when the UV lamp intensity is no longer sufficient for accurate TOC measurements

UV Photo-oxidation 185/254 nm: high performance UV assembly reliably reduces the content of microorganisms and their metabolites

Ready-to-use: feed water pressure switch, wall bracket, UV lamp, ultrapure cartridge, sterile filter, all included in one part number

Measurement of conductivity/resistivity: conductivity cells are carefully calibrated prior to each measurement via built-in reference resistance with cell constants at 0.01 cm⁻¹. Temperature measurements are made by platinum chip sensor with $\pm 0.1^\circ\text{C}$ accuracy

Quick-connect cartridge replacement: aquastop quick-connect capability enables cartridge replacement within seconds even mid-operation

Exact dosing: electronic dosing for fully automatic volume control of 0.01-65 L with < 0.5% accuracy

GLP-compliant documentation: real-time clock and code-protected operating system prevents unauthorized changes to system settings. RS-232 interface with adjustable send - interval for safe data transfer of all measured data, faults, date and time to a PC computer or log printer. Digital microprocessor control automatically monitors and stores faults from the last four weeks. USP-compliant conductivity measurement with temperature compensation can be switched on or off.

Specifications:

Flow rate, max.	Up to 2L/min
Operating pressure	2 to 6 bar

