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Total Organic Carbon (TOC) Analyzer

A resistivity meter reading 18.2 MΩ-cm ensures that charged species are absent from water. But what about neutral or weakly charged organics? Introducing the Barnstead TOC analyzer.

By monitoring TOC and resistivity, you can be sure that the product water exceeds the requirements of any analytical or biological application.

In the DI*amond* system the TOC analyzer is positioned after all purification technologies, next to the resistivity cell. This provides accurate measurement of product-water quality before it is dispensed from the system.

Principle of operation

Water from the DI*amond* passes through a filter (1) and enters the UV reactor (2). The resistivity of the water is measured initially. The high-intensity (185 and 254 nm) UV lamp oxidizes organic compounds present in the water, producing CO_2. The solenoid (3) opens and moves the water across the conductivity cell (4), where resistivity is measured again. The difference in resistivity resulting from the increased CO_2 concentration is used to calculate the TOC value, which is then displayed.

Specifications

Volume per measurement: 10–15 ml per reading dispensed to drain

Cycle interval: Approximately 3½ minute cycle between readings

Control: TOC monitoring can be turned on or off via system keypad

Range: 1–250 ppb

Resolution: 1 ppb

Accuracy: ± 1 ppb or 15% of reading, whichever is greater

Water temperature range: 4–40° C system (40–104° F).

Ambient temperature range: 10–40° C