

BlueTrace™ - Advanced Product Dosage Control

Simple, Low Cost Product Control Technology for Cooling Towers

MB 0411

What's In Your Cooling Tower??



That's a hard question to answer! The phosphonate and polymer field test methods presently used to control dosage of water treatment products are clearly inaccurate, difficult to use, and very costly as to reagent use. Use of inaccurate control tests can result in either over treatment, increasing costs and the potential for system corrosion, or under treatment, resulting in a scaled system. Molybdate use as a tracer, while well established and accurate at higher levels, has become very costly and its use has been banned in some areas by environmental agencies.

The solution to these problems is use of BlueTrace for testing and control of cooling water treatment products.

ProChemTech International, a world leader in water treatment, has developed a new tracer technology for control of difficult to test for phosphonate - polymer cooling water treatment products; **BlueTrace**. This patented* technology replaces use of molybdate as a tracer with a non-toxic organic colorant. Via use of an inexpensive laser diode spectrophotometer, the test method provides for simple, fast, economical, and very accurate determination of **BlueTrace** concentration in the treated water. In the typical 100 to 200 mg/l working range of most cooling water treatments, **BlueTrace** has error limits of just +/- 5 mg/l.

Aesthetics

BlueTrace imparts a pleasant, faint blue coloration to treated waters at typical usage levels.

Economics

Continuing purchase of costly test reagents is eliminated with **BlueTrace**, the only cost is the initial spectrophotometer kit purchase as **no costly chemical reagents are used in the control test procedure.**

Test Procedure

The test procedure for **BlueTrace** is simplicity itself; turn on the spectrophotometer, blank the unit with a city water sample, place a cooling water sample in the cell, read the absorbance, and multiply by a factor to obtain mg/l of the product in use. With turbid cooling waters, a filtration step is needed to remove interference by suspended solids.

ProChemTech International, Inc.

"Innovation in Water Management"

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* Patent #7,932,091