



Pfizer

A leading international pharmaceutical company, Pfizer, believes in supporting the community through a wide range of initiatives. As part of this program Pfizer's engineering department at their Sandwich site support the Astor School technical educational program. For the 1995 project they decided to investigate non chemical methods of scale prevention.

Pfizer's Sandwich site is located in South Kent, England near the white cliffs of Dover and as such is situated in a very hard water area.

The Project

The aim of the project was to investigate non chemical methods of scale prevention. An experiment was setup using two Vapac steam humidifier units, one as a control, one fitted with a non-chemical scale inhibitor. The system was allowed to run, and the scale formed in the vapac bottle was measured by weighing the bottle. Two physical scale technologies were tested: Scaleton and an electromagnetic type.

The Results and Recommendations

The Scaleton produced a measurable reduction in the scale formation and the researchers recommended that Pfizer pursue further experimentation with this product.

The electromagnetic unit did not produce any measurable reduction in scaling.

Other applications:

Pfizer has since 1993 used a 3" Colloid-A-Tron to inhibit scaling on the heat exchanger of a multistage compressor which previously needed to be cleaned every four months despite the use of chemical scale inhibitor.
