



DuBois
Modu-Light™ Ultraviolet Treatment

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The Perfect Complement to Your Biocontrol Program!

Problem:

Biofilm that results in part from poor control of “free-swimming” or planktonic microorganisms leading to:

- Corrosion
- Reduced heat transfer (Figure 1)
- Increased potential for pathogens – (legionella)

Historical Solution:

Effective control of planktonic growth, coupled with an effective dispersant including:

- Oxidizing and alternating nonoxidizing biocides
- Continuous feed - All-In-One with biocide (Figure 2)

And now, the Modular Solution!

- Modu-Light to complement a low-level biocide
- Modu-Light alone under certain conditions

In keeping with our goal of *minimizing environmental impact*, our All-In-One GCO program is considered to be a natural partner for ultraviolet treatment. (Figure 3) Other low impact biocides are excellent choices (Figure 4), but the convenience of GCO fits the needs of many customers.

Modu-Light destroys the DNA of organisms like legionella pneumophila. As a complement to a good housekeeping program, it goes a long way toward minimizing the risk of disease.

Modu-Light can allow some systems to operate with no maintenance biocides, only requiring dispersants and scheduled cleaning. (Figure 5)



Modu-Light System

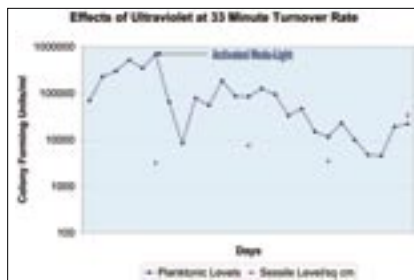


Figure 5 - Modu-Light alone may decrease the number of colonies and help prevent biofilm.

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Results

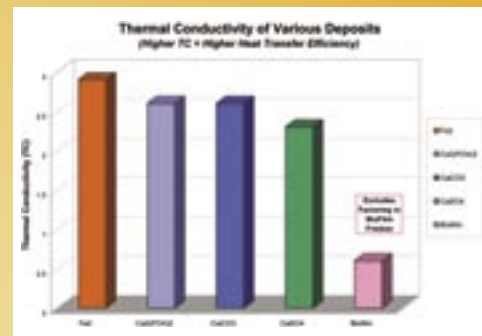


Figure 1 - Biofilm growth impacts heat transfer the most.

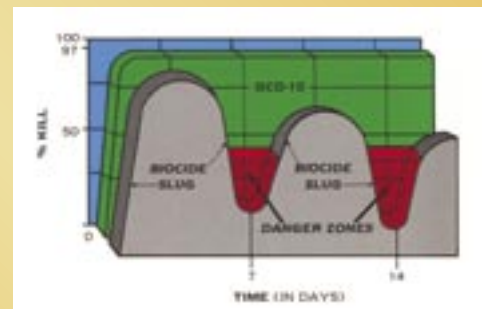


Figure 2 - Continuous biocide feed provides improved control over erratic slug feed.

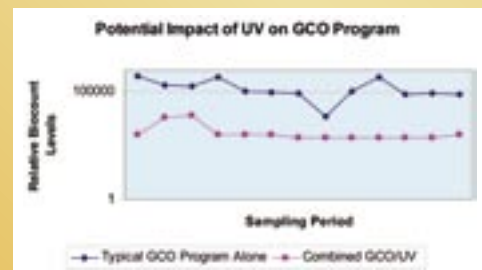


Figure 3 – UV improves the performance of our GCO Program.

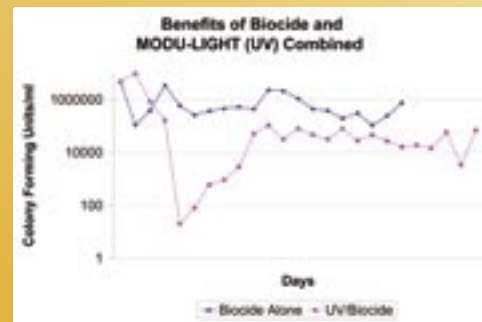


Figure 4 – Many traditional biocides perform better when coupled with UV. In this case, a low level oxidizer was significantly enhanced through the use of our Modu-Light Program.

