PUROFLUX NEWS



Puroflux Corporation Newsletter

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Lets Get Retrofitting

With spring in full swing and summer right around the corner, now is the time to ensure your customers are taking the proper steps in prevention of unscheduled cooling tower maintenance and unwarranted fouling costs. One essential step in maintaining a highly efficient cooling system is the utilization of filtration. Puroflux filtration and/or separation systems can be retrofitted to most any existing cooling tower. By retrofitting a Puroflux filter unit to a non-filtered cooling tower, you can assure your customer of an overall reduction in unscheduled maintenance and fouling due to the build-up of suspended solids within the condenser system.

Filtration— An Assured Savings Choice

The addition of a filter/separator system to virtually any condenser system will result in the decreasing of suspended solids. The reduction of solids buildup within a condenser system will result in a significant decrease in fouling. Using the chart below; one can understand the monetary valve of reducing deposit thickness within a chiller system. It is clear that even the slightest deposits will have a significant impact on the energy consumption of the condenser system. By utilizing a filter/separator system, your customer will see a return on investment. Whereas, unscheduled downtime never results in a return on investment.

Condenser Deposit Thickness Vs. Increased Electricity Cost

Thickness of Deposit (In)	Fouling Factor	Efficiency Loss	Increased Annual Electrical Cost
0	0.0000	0%	\$0.00
0.01 (heavy-duty household aluminum foil)	0.008	9%	\$8,968.00
0.02 (mechanical pencil lead)	0.0017	18%	\$17,936.00
0.03 (credit card)	0.0025	27%	\$26,904.00
0.04 (paperclip)	0.0033	36%	\$35,872.00
0.05 (dime)	0.0042	45%	\$44,840.00

Please note, the above figures do not take scale buildup into consideration.

1) 500 ton chiller running 12 hrs per day at full load2) Provided by CED Engineering



Money for Installation Photos & Testimonials

This month's photo is of a six-cell cooling tower fill replacement at a prominent university; the third replacement in 15-years. The debris shown was not only introduced from the air inlet; but also through the distribution nozzles. These towers do not have filtration. With a properly sized filtration system the amount of debris will be significantly reduced, extending the overall life of the fill.

Puroflux is always looking to improve its library of installation photos and white papers. If you submit a testimonial that is then published by Puroflux you will be awarded a \$50.00 gift card. Alternatively, if you submit a photo that is published, you will be awarded a \$25.00 gift card.

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