AQOLOGY TEKNIX
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Save Power+ Operation+ Maintenance Costs
Use Automatic Backflush Self Cleaning Screen Filters for Clean Cooling Water

Dear Sir,

Cooling Towers have intake of a large quantity of atmospheric air. All sediments in this air are trapped in cooling water during scrubbing between the two. The concentration of the sediments keeps building up and circulates through the cooling water loop. These solids keep depositing on condensers/heat- exchangers, cooling towers' film fills & distribution nozzles and reduce the heat transfer efficiency—which in turn affects you in several ways. Since it is not feasible to filter the incoming air, the only way to prevent these effects is on-line filtration of circulating water.

We are quoting below portions from ASHRAE Journal which will interest you:

"A typical 200 ton cooling tower "scrubs" airborne contaminants (dust & pollen) from the atmosphere and deposits as much as 600 pounds of particulate matter into the condenser cooling water system each year".

"A foul or scale layer measuring only 1/1000 inch thick can inhibit heat transfer sufficiently to increase energy costs by 10 percent"

Ref: Clive Broadbent, ASHRAE Report 1992 & ASHRAE Handbook 1996

We introduced the design of filters for this application and these are giving excellent results & benefits to users now in 14 states.

This technology has a unique combination of features, which have made it the best option available—commercially & technically:

•**Truly Maintenance free,** uninterrupted performance

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• **High reliability and** low downtime with only one moving part & with no mechanism coming in contact with screen

• **Highly efficient** focused backflushing, which dislodges toughest of sediments from screen openings

Compact

•Easy & quick to install

•Very little installation cost

•Negligible water consumption in backwashing (<1%)

•Very low operating cost (low pressure drop & negligible power consumption in backwashing)

•High efficiency filtration of particles (major part of very fine particles are also filtered due to uniform filter cake)

•No fluctuations in pressure or flow rate of filtered water during backflushing.

•No standby/duplex filter required

•Performance unaffected by variation in flow rates

•Eliminates

¬costly replacement of cartridges, elements, bags

¬replacement of media caused by carryover/channeling/degradation

Looking forward to discuss this value-for-money proposal,

Cordially yours,

Ajai Agarwal
Chief Executive

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