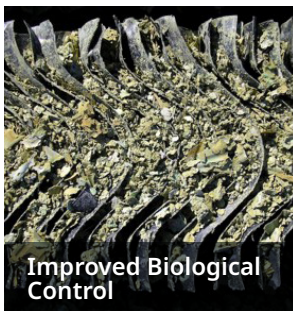


LIGHT FILTER

FOR SIDESTREAM FILTRATION



The Light Filter is a unique and proven filtration system designed to keep cooling towers operating at peak efficiency. Cooling tower systems regularly accumulate dirt, microbiological organisms and debris that can impact heat transfer, increase chemical demands and lead to frequent cleaning and under-deposit corrosion. Cooling tower filtration systems reduce these suspended solids leading to a cleaner system that is easier to treat and maintain. The Light Filter is a perfect fit for water conscious customers looking to reduce their tower maintenance costs and improve system reliability. A unique feature of the Light Filter is its floating filter media that uses less than 5% of the backwash water of a traditional sand filter system.

KURITA AMERICA ADVANTAGE



LIGHT FILTER FEATURES & BENEFITS

- Compact design
- Floating filter media
- Automatic washing and drainage
- Stainless steel for corrosion resistance
- Low maintenance
- Reduced system deposition & fouling
- Improved heat transfer efficiency
- Less mechanical wear & corrosion
- Better bacteria control
- Improved treatment performance
- Cleaner cooling tower

TARGETED INDUSTRIES

- Automotive
- Commercial & Institutional
- General Manufacturing
- Healthcare

Increased Water Savings

The Light Filter uses a polymer-based filter media that attracts suspended dirt and debris but is easily cleaned with mechanical agitation. This cleaning method uses far less water per backwash event – more than a 90% reduction compared to sand media filters. The system was also created with water conservation in mind, as it doesn't require fresh water for backwashing. For facilities concerned with water usage and their environmental footprint, the Light Filter is an easy way to save water and at the same time, achieve exceptional filtration performance.

Compact Design

The compact, skid-mounted system design can be easily installed in tight spaces, utility rooms, chiller plants, etc., only requiring an area of approximately 16 square feet. The maximum flow capacity of the Light Filter is 75 gallons per minute and up to 2-3% of the cooling tower's recirculation rate. Multiple Light Filter's can be employed to accommodate higher tower recirculation rates. Due to the media design, the filter system can be operated at many times the flow rate of comparably sized sand and specialty media filter systems. This high loading rate leads to lower capital costs, smaller environmental footprint and decreased installation expenses. As a standard, the robust system design includes a stainless-steel vessel and pump for a long service life.

Simple Operation

Rather than using multiple actuated valves, complicated control systems and relying on fresh water for backwash, the Light Filter is easy to operate with only two valves and one pump to control. The onboard control system, with a color operator display, is intuitive and easy to understand with training provided at startup. Nearly maintenance free, the Light Filter is fully automated, allowing for your internal personnel resources to be focused on other activities.

Improved Biological Control

The Light Filter uses media manufactured of resilient polystyrene beads that are flexible and catch a wide variety of particles. These can include particles biological in nature, which generally clog traditional sand filters or are not removed by centrifugal separators. The removal of these particles reduces oxidant demand, leading to the decreased risk of biofilm formation, and uncontrolled growth of organisms, resulting in biofilm and biomass, both can impair system efficiency. In addition, microbiological growth can be a health hazard by harboring pathogenic organisms. The Light Filter improves bacteria control and promotes safer water operations in your facility.