

HOFFER

There's a Part of Us in Every Piece™



LEAN MANUFACTURING MILESTONE

TEKLEEN FILTERS INCREASE EFFICIENCY AT HOFFER PLASTICS

PROJECT GOAL:

Improve efficiency and sustainability in water filtration for chilled and tower water systems

Location: Hoffer Plastics Corporation, South Elgin, IL

Industry: Plastics manufacturing



PROJECT TIMELINE:

- First Tekleen filter installed: January 2012
- Since then: Hoffer Plastics has been adding Tekleen filters.
- Most recent additions: Tekleen filter Models ABW4-LP, ABW4-XLP and ABW8-LP

CHALLENGES:

- Inefficient filtration: Previous bag filters required daily maintenance and high water consumption
- Environmental impact: Traditional filtration methods contributed to water waste and potential contamination
- Productivity risks: Unreliable filtration could lead to equipment inefficiencies and product quality issues

SOLUTIONS:

- Tekleen self-cleaning filters:
 - Eliminates Man hours needed to learn filters
 - Automates the cleaning cycle
 - Stainless steel construction minimizes risk of contamination and extends filter life
 - Various models (ABW8-LP, ABW4-LP, ABW4-XLP) cater to specific flow rates and micron requirements

RESULTS:



- Increased efficiency:
 - Increased operational uptime due to automatic cleaning.
- Enhanced sustainability:
 - 2015 Governor's Sustainability Award for water savings and environmental responsibility
 - Consistent production cycles
- Improved product quality:
 - Reliable filtration improves heat transfer efficiency and reduces energy consumption

WHY SELF-CLEANING FILTRATION?

Process water from a plant's cooling tower is often contaminated with airborne dust, pollen, algae, plastic fines, and pipe scale. These contaminants circulate through heat exchangers and chillers and significantly reduce the system's cooling ability. As a result, extruders, molding machines, molds, and compressors can heat up and endanger the quality of the product manufactured as well as the machines.

TEKLEEN® self-cleaning water filters provide the ultimate solution where dirty cooling water is a problem. The filters operate on line pressure alone. Self-cleaning is triggered by a pressure differential and is accomplished in seconds without interrupting the flow. The filters are compact in size and designed to meet a wide variety of industrial applications.

Information was provided through the courtesy of Mr. John Lederer, Maintenance Manager for Hoffer Plastics. Facility photos courtesy of Hoffer Plastics.

DISCOVER

Tekleen's innovative solutions can revolutionize your water filtration process and promote sustainability. Contact us today for a free consultation and learn how Tekleen can help you:

- Reduce costs
- Improve efficiency
- Minimize waste
- Protect equipment
- Enhance sustainability

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