KOGI Environmental Solutions

From Clogged Filters to Clean Air:

A Six-Year Maintenance Overhaul

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Client Type:
Industrial Manufacturing Facility

The Challenge

After six years of continuous 24/5 operation, a client's air filtration systems had never undergone a complete filter maintenance.

The metal mesh filters were heavily saturated with particulate matter and solids, leading to compromised system performance.

This was evident in elevated fan speeds (up to 93%) and differential pressure readings over -0.10. In the Compounding area, excessive oil in the air and on nearby surfaces raised additional concerns from the maintenance team.

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The Solution

Kogi Environmental Solutions conducted an on-site inspection and identified the primary cause of the performance issues: clogged mesh filters that had not been cleaned or replaced since installation.

We recommended:

- Soaking metal mesh filters in Simple Green solution and power-washing them to restore airflow.
- Ordering a second set of filters for seamless changeovers without halting operations.
- Replacing aged tubing on the differential pressure sensor and cleaning the housing.
- Blowing out barbed fittings with compressed air to clear blockages.
- Semi-annual preventive maintenance on sensors and fittings moving forward.

We also noted a fault in the HMI caused by oil contamination in the pressure sensor line and poor tubing fit, and provided guidance on restoring sensor accuracy.

The Result

Once filters were properly cleaned and replaced, and tubing addressed, system performance improved significantly:

- Fan speeds dropped to normal ranges (below 70%), reducing motor strain.
- Air quality in the Compounding area improved, with reduced oil accumulation.
- Faults in pressure differential readings were resolved.
- The customer now has a proactive maintenance schedule, helping extend equipment life.

Thanks to the detailed inspection and actionable recommendations, the client avoided costly downtime and restored optimal performance to units that had been running under strain for years.

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Looking for more details?
Let us guide you!

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