

Sweet Savings!

A compressed air audit opens a world of savings opportunities

PROBLEM: One of the world’s leading candy and gum manufacturers had no idea how much their compressed air system was costing them. Four compressors (totaling 290 hp) supplied the air needed for pneumatic controls, packaging, and wax line extrusion applications. Excessive water in the compressed air lines, steep maintenance costs, and high noise levels had them looking for a new solution.

SOLUTION: A comprehensive Air Demand Analysis (ADA) established a demand profile for the plant and showed how they were using compressed air throughout the week. It also identified areas of waste and inefficiency. By installing a 100 hp variable frequency drive compressor and two 75 hp fixed speed compressors, they would have all the air needed—with one of the fixed speeds acting as a back-up. This split system solution would bring energy—and noise levels—well under control. A Sigma Air Manager 4.0 master controller could provide on demand energy reports so they would always know how their system was performing and what it was costing.

RESULT: In just over 9.5 months, the project has paid for itself. Annual energy costs have been cut by more than 800,000 kWh. Part of these savings came from reducing the plant pressure from 125 psi to 100 psi. Additionally, the new energy efficient dryers installed have taken care of the moisture concerns. Needless to say, these savings couldn’t get any sweeter.



Specific Power of Previous System:	47.16 kW/100 cfm
Specific Power of New System:	17.77 kW/100 cfm
Annual Energy Cost of Previous System:	\$128,756
TOTAL ANNUAL ENERGY SAVINGS:	\$80,235
Utility Incentive:	\$80,200



Not Getting Enough Supervision?

Sure. We make a better compressor. More reliable.

More air for less energy. Easier to maintain. And quieter. But when it comes to efficiency, system design is critical.

You can run several very efficient machines, but not run them efficiently. That's why we are such sticklers for system controls. Our Sigma Air Manager 4.0 makes compressors "play well with others". Under SAM's supervision, compressors don't fight each other. And when they aren't playing, they are off. No wasting energy idling or cycling.

Beyond saving energy, SAM 4.0 ensures reliable steady pressure for production. It also minimizes run time which extends service intervals. Reduced cycling and idling means less wear and tear on the motor, starter, valves, etc. SAM 4.0 also provides full time energy monitoring and easy integration into plant control/IIoT systems. Stop neglecting your compressor and give it the supervision it needs with SAM 4.0.

Call us today... you'll thank us tomorrow!



Kaeser's Sigma Air Manager 4.0 (SAM) compressed air management system brings the IIoT to industrial plants with its adaptive control, data storage, analysis, and predictive maintenance capabilities, and it does it all while ensuring a reliable, consistent supply of compressed air.

Learn more: kaeser.com/sam



Built for a lifetime.™

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Certified Management Systems



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