

Out with the Old and In with the New

Kaeser solution brings metal products plant serious green

PROBLEM: For many years, the compressed air system at a metal products plant continued to grow without taking the time to weigh the energy consumption and age of their current compressed air equipment. When production changes caused pressures to drop below acceptable levels, the plant simply added a new compressor to the existing system, without removing older compressors (averaging 15 years but ranging up to 36 years old).

SOLUTION: A comprehensive Kaeser Air Demand Analysis (ADA) was performed on the plant's air compressor system to help them understand the compressed air issues they currently had and make sound recommendations on system improvements. Kaeser also completed a leak detection audit, not only documenting the size and location of each leak, but also quantifying the overall leakage cost to the facility.

RESULT: Kaeser identified approximately 75% potential compressed air system energy consumption savings. Taking Kaeser's recommendations, the leaks were fixed, the black iron piping was updated with Kaeser SmartPipe™, and a new compressed air system was installed, including a variable frequency drive (VFD) compressor and Sigma Air Manager (SAM) master controller. Pressure drop problems and high energy costs are a thing of the past — and the bottom line has never looked so green.



Operating Energy Cost for Previous System:	\$90,000 per year
Estimated Savings for Fixing Leaks:	\$51,000 per year
Estimated Savings from New Compressors and System Controls:	\$17,000 per year
TOTAL ANNUAL ENERGY SAVINGS:	\$68,000
Utility Incentive:	\$25,000



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. Advanced compressor controls like our Sigma Air Manager make compressors "play well with others". Under SAM's supervision, compressors don't fight each other. They all work together, delivering consistent, reliable pressure within 1 psig of your desired pressure. And when they aren't playing, they are off. No wasting energy idling or cycling.

SAM gives you superior performance, steady pressure for production and reduced energy usage. It also minimizes run times which extends service intervals. Reduced cycling and idling means less wear and tear on the motor, starter, valves, etc. Fewer repairs, longer life. Stop neglecting your compressor and give it the supervision it needs with SAM.



Kaeser's Sigma Air Manager (SAM) combines the benefits of modern industrial PC and internet technology to provide unparalleled compressor control, monitoring, and energy savings.

Learn more: kaeser.com/sam

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



Built for a lifetime.™

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