



Clean Sweep!

Air system study yields multiple benefits to bottom line

PROBLEM: An aerospace parts manufacturer was experiencing high maintenance costs as well as excessive downtime with their compressed air system. Their modulation control compressor caused unnecessary energy usage on the weekends and off peak times, resulting in exceptionally high energy costs. Additionally, problems with air quality led to product rejects and costly scrap rates.

SOLUTION: A comprehensive Air Demand Analysis was conducted to understand the plant's fluctuating demand. It revealed that the 200 hp modulating control compressor was grossly oversized. With proper controls and additional storage, two 50 hp compressors could efficiently handle the demand and save 871,500 kWh per year. A third 50 hp unit was added to ensure uptime and accommodate growth.

RESULT: These sweeping changes created immediate and sustainable energy savings. The combination of more storage, more efficient compressors and master controls drove system specific power consumption down 77%— and that doesn't include the savings from leak reduction. As a direct result of the new air treatment equipment, the plant also saw improved product quality and reduced maintenance on the expensive production equipment that may surpass energy in terms of bottom line benefits.







Specific Power of Previous System:93.89 kW/100 cfm
Specific Power of New System:
Annual Energy Costs of Previous System: \$107,431/year
Annual Energy Cost Savings: \$87,151/year
Savings Due to Fixing Leaks: \$12,500/year
Utility Rebate: \$92,000
TOTAL FIRST YEAR SAVINGS: \$191.651

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Results Today... Savings Tomorrow

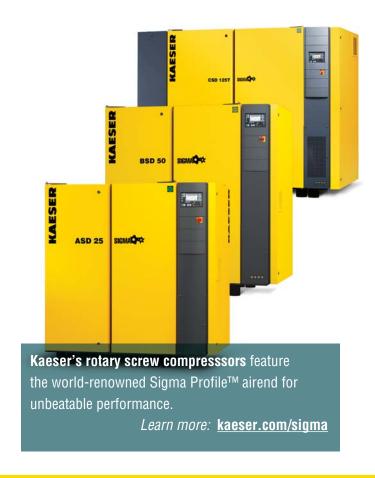
Energy efficiency and reliability. With Kaeser, you can't have one without the other. Kaeser's Sigma rotary screw compressors are designed to give you energy-efficient results that will start saving you money the day after you install them—and will keep on saving you money, year after year.

Our equipment and system solutions deliver dramatic energy savings along with more reliable plant operation and less downtime. That means significant dollar savings along with hassle-free operation.

Our 25-125 hp compressors feature a true direct drive design and a thermal management system, plus built-in heat recovery options for the ultimate in operational efficiency.

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