

The Sweet Sound of Savings!

Dramatically reduced energy costs is music to the ears

PROBLEM:

A music studio equipment manufacturer had problems maintaining steady pressure with their compressed air system. Additionally, there never seemed to be enough air to meet production demand despite having both a 50 hp and a 75 hp rotary screw compressor. Month after month, energy costs soared with the compressors being the highest consumers. And during the summer months, increased condensate in the lines caused severe air quality issues.



SOLUTION:

An Air Demand Analysis (ADA) revealed that the 50 hp unit (with modulation control) was producing only a fraction of its total capacity yet consuming full load kW. A single 50 hp compressor with adequate storage could easily meet the plant's demand and provide significant energy and maintenance cost savings. The air quality issues were due to undersized storage and air treatment.



RESULT:

The new, energy-efficient 50 hp dual control compressor provides all the air that's needed and keeps the plant pressure rock steady—with the 75 hp compressor still there for backup. The new refrigerated dryer with energy-saving controls and condensate management system have solved the air quality issues, while the 361,099 kWh reduction in annual energy consumption has this customer singing a happy tune.



Specific Power of Previous System:	59.74 kW/100 cfm
Specific Power of New System:	19.05 kW/100 cfm
Annual Energy Costs of Previous System:	\$52,981 per year
Annual Energy Cost Savings:	\$36,110 per year
Utility Rebate:	\$41,921
TOTAL FIRST YEAR SAVINGS:	\$78,031

Reduce, Reuse, Recycle

Any school age child knows these three R's to eliminating waste, saving energy, and protecting the environment. But in the rush to identify the next breakthrough energy technology, what often gets overlooked is first on the list: **reduce**.

Though often not as interesting as the others, reducing energy consumption is almost always the most cost effective, as well as the quickest and easiest to implement. This is certainly true with compressed air energy.

As the air systems specialist, we have developed a unique Kaeser Air Demand Analysis (ADA) program. No other approach offers our distinctive combination of affordability, convenience, and comprehensiveness. Our air system audit provides a complete and accurate air demand and consumption profile without interrupting daily operations and is suitable for all system sizes.

Our field service experts have the knowledge, experience, and tools to evaluate your air system and make solid recommendations that can reduce your energy costs up to 50% and often increase productivity.

Call us today, you'll thank us tomorrow!



With Kaeser's ADA, data logging with highly accurate sensors are attached to the system to monitor the compressed air usage

Kaeser's Air Demand Analysis takes out the guesswork and provides unbiased compressed air system data collection to give you an accurate picture of system dynamics with meaningful analysis.

Learn more at: www.kaeser.com/ada

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