

Simplify and Stabilize

Metal fabricator pushes “easy button” with compressed air system

Problem:

A precision metal fabricator was spending considerable time and money maintaining their aging compressed air system—time that would be better spent on their business. A 40 hp, modulating control compressor supplied the flow, but problems with downtime had them looking for a more reliable solution. Additionally, even with their back-up 40 hp unit, system pressure fluctuations caused frequent disruptions to their compressed air supply, impacting reliability at the point-of-use and left them wondering if their compressor was undersized.



Solution:

A comprehensive Air Demand Analysis (ADA) revealed that the modulating compressor was actually *oversized*—and in a big way. The compressor was running on average at only 30% capacity and could not respond to the system-wide pressure fluctuations—all the while consuming nearly full power and racking up their energy and maintenance bills. A single 20 hp dual control compressor could reliably supply the flow and keep energy costs low. And to make it even easier, authorized Kaeser technicians could handle the installation and all annual maintenance.



Result:

The 20 hp compressor has reduced their energy costs by 40%—even though growth has increased their average demand by 28%. The second 20 hp compressor provides complete redundancy and with the two compressors splitting the load, maintenance costs have been cut as well. They no longer have to continually monitor the system for pressure drops and worry about disruptions to their compressed air supply. This new split system was just the “easy button” solution they were looking for.

Specific Power of Previous System:	48.09 kW/100 cfm
Specific Power of New System:	22.47 kW/100 cfm
Annual Energy Costs of Previous System:	\$19,716
Annual Energy Cost Savings:	\$7,958
Utility Rebate:	\$6,680
TOTAL FIRST YEAR SAVINGS:	\$14,638
Simple Payback Period:	1.8 years



Relax. You've Got a Kaeser.



Running a shop is stressful enough. The last thing you should be worrying about is your compressor.

That's why Kaeser compressors are engineered with you in mind. They're built for reliability even in demanding applications. Quality components like stainless steel piping, TEFC motors, and our world-renowned Sigma Profile™ airend mean they'll deliver the energy efficient performance you expect year after year. The heavy-duty cabinet with sound insulation keeps noise in and dirt and dust out, while the small footprint means you can install them just about anywhere.

With features like automatic belt tensioning, high efficiency coolers, wye-delta start, and an integrated Sigma Control™ controller, you can rest easy that Kaeser has your compressed air supply covered.

Call us today, you'll thank us tomorrow!



Kaeser's S Series belt drive compressors feature low noise levels, easy maintenance, and user-friendly controls for the best in efficiency and reliability.

Learn more at kaeser.com/sigma

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