

## No-Cost, No-Obligation System Evaluation

# KESS

### What is KESS?

Our Kaeser Energy Saving System (KESS) is a no-cost, no-obligation compressed air system evaluation. The KESS program was designed to estimate air system energy consumption and identify areas for improvement.

### How is system information collected?

Our trained experts conduct a walk-through and complete a detailed questionnaire. The questionnaire allows representatives to record basic air system information. A KESS evaluation does not require installing data loggers.

### How is data analyzed?

The system information collected is reviewed by system engineers and entered into our KESS software which simulates the various power requirements of different compressed air system scenarios. Our engineers also review the collected information closely for other potential areas of improvement.

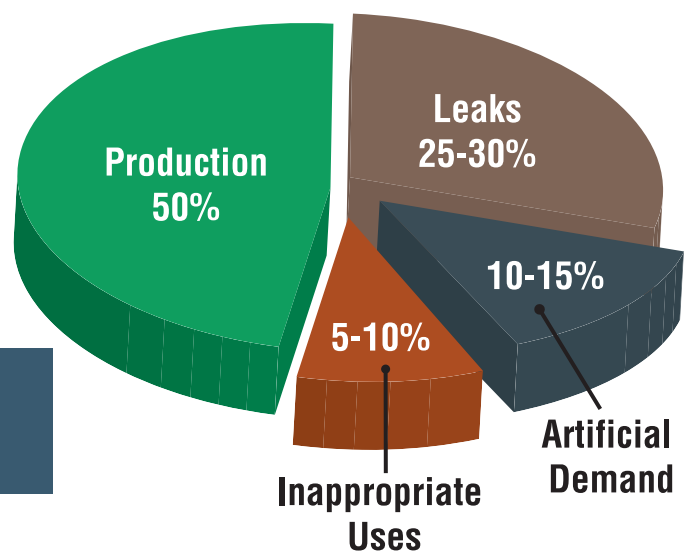
### What is in a KESS report?

Your customized KESS report includes an estimate of current energy consumption and suggested scenarios for system efficiency improvements.

The KESS report also includes general recommendations for an efficient air system. Lastly, the report indicates whether you'll benefit from a complete Air Demand Analysis (ADA).

### Potential Benefits of a KESS:

- Gain a better understanding of air system energy costs
- Learn ways to improve system efficiency
- Obtain a report to aid in quick-decision making or long-term planning
- Help decide if a more thorough Air Demand Analysis would be beneficial
- Address air quality requirements if necessary



*The U.S. Department of Energy estimates that only 50% of compressed air is put to productive use – meaning most air systems have significant energy saving potential.*

# Comprehensive Air System Audit

## ADA

### What is an ADA?

Kaeser's Air Demand Analysis (ADA) is our unique approach to comprehensive air system audits. Without interrupting daily plant operations, our proprietary ADA program provides a complete and accurate air demand and consumption profile. We can tailor this audit to any size system.

### How is system data collected?

Our ADA uses a variety of highly accurate instruments and sensors installed at strategic locations in the system to obtain an accurate picture of system dynamics. The data logging devices monitor and chart air flow, power consumption, and system pressures, typically over a period of 10 days.

### How is data analyzed?

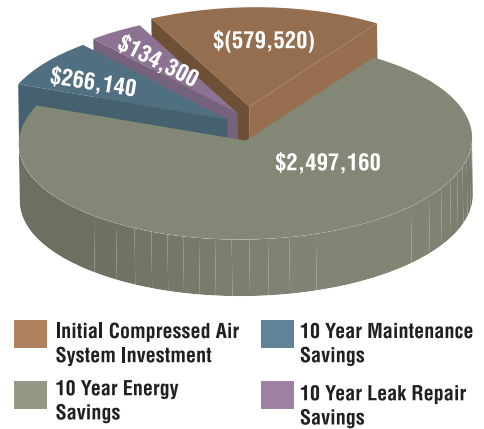
Our engineers analyze the system from several perspectives using collected data, system schematics, and site visits to identify poor compressor performance, periods of insufficient capacity, as well as waste, leaks, and artificial demand due to operating at unnecessarily high pressures.

Performed with a comprehensive ADA, KESS software uses the critical data gathered to find the most cost effective and energy-efficient solution for the specific application based on customer goals.

### What is in an ADA report?

Each ADA report includes a specific action plan. It outlines the recommended actions, as well as the projected energy costs. Recommendations do not necessarily include acquiring additional compressor equipment; often, it's merely a matter of making adjustments to compressor controls, storage, piping, or system controls.

### Example of Real Projections Using ADA Data



### KESS and ADA Comparison

	KESS only	ADA
Facility walk-through and questionnaire	✓	✓
Customized report with recommendations for savings	✓	✓
Calculates energy costs and projected savings	✓ (Estimate)	✓ (Actual)
Data loggers collect detailed quantitative data		✓
True picture of system activity and inefficiencies		✓
Comprehensive report with consumption analysis		✓



**Built for a lifetime.™**



[www.kaeser.com](http://www.kaeser.com)

**Kaeser Compressors, Inc.**  
511 Sigma Drive  
Fredericksburg, VA 22408 USA  
Telephone: 540-898-5500  
Toll Free: 800-777-7873  
info.usa@kaeser.com

**Kaeser Compressors Canada Inc.**  
3760 La Vérendrye Street  
Boisbriand, QC J7H 1R5 CANADA  
Telephone: (450) 971-1414  
Toll free: (800) 477-1416  
info.canada@kaeser.com

**Kaeser Compresores de México S de RL de CV**  
Calle 2 #123  
Parque Industrial Jurídica  
76100 Querétaro, Qro.  
Telephone: 01 (442) 218 64 48  
sales.mexico@kaeser.com

**Kaeser Compresores de Guatemala y Cia. Ltda.**  
Calz. Atanasio Tzul 21-00, zona 12  
El Cortijo II, Bodega 501  
01012-Guatemala City  
Telephone: +502 2412-6000  
info.guatemala@kaeser.com

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