

# SIGMA AIR MANAGER 4.0

**KAESER COMPRESSORS**

SIGMA AIR MANAGER 4.0 | 4 | Automatic | 99 psi

Station

▼ Compressors

- C1 - BSD 50
- C2 - BSD 50
- C3 - BSD 50
- C4 - SFC 55

► Dryer

► Filter

► Air receiver

► Condensate treatment

▲ ▼

Station

Power: 165.51 kW  
Volumetric flow rate: 975 cfm

CT1

Status

- Messages
- Monitoring
- Energy & costs
- Maintenance
- Control
- SAM 4.0 Logic
- Time control
- Initial start-up
- Configuration
- Contact | i

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SIGMA AIR MANAGER® 4.0

## Savings at your fingertips

Compressed air production is often wasteful. A significant part of this inefficiency results from poor system-level control of pressure and flow. The true measure of compressed air efficiency is specific performance—the electrical per unit cost of compressed air. Even with high efficiency compressors, specific performance of the whole system suffers if the compressors are not controlled in concert. Production is constantly changing and with it, your compressed air demands. Systems with multiple compressors and no master control suffer increased operating costs as individual compressors try to operate independently.

Sigma Air Manager 4.0 learns and adapts to changing demand to maintain optimal specific performance while at the same time stabilizing downstream pressure for better functioning of production equipment. SAM 4.0 minimizes your per unit costs for compressed air, not only in energy but also preventive maintenance and service costs.

SAM 4.0 also enables real time reporting and cost analysis of compressed air usage. Further, SAM 4.0 greatly simplifies remote monitoring and control in industrial Internet of Things (IoT) environments.

# Here's what's in it for you

### Improve System Efficiency

SAM 4.0 uses adaptive predictive control to continually analyze system dynamics. It selects the best unit and pressure combination in real time to achieve best specific performance — the true measure of energy efficiency and it keeps doing it even as your air demand changes.

### Full-time Data Logging

System performance and energy consumption information are available in real time and in downloadable data sets. SAM 4.0 gives you a continual system audit so you can monitor energy consumption, identify consumption trends, and track pressure variations. The on demand energy reports let you see the immediate cost impact of production changes.

### Reduced Wear and Downtime

Adaptive pressure control and intelligent unit sequencing mean SAM 4.0 substantially reduces the additional maintenance cost caused by excessive unit cycling. It balances and lowers the operating hours on multi-unit systems. Less cycling and starts reduces wear on motor windings, starters, inlet valves, and solenoids for longer component life, lower service costs, and increased uptime.

### Remote System Monitoring

With remote condition monitoring you can detect, evaluate, and even prevent potential outages without stepping foot on the plant floor. Backed by powerful Ethernet technology, SAM 4.0 brings the industrial Internet of Things (IoT) to your plant. The Kaeser Connect built-in web server allows you to view equipment status via any network connected device.



## Ready to see how much SAM 4.0 can save you?



Contact us today for a no obligation assessment.  
Visit [www.kaeser.ca/samsavings](http://www.kaeser.ca/samsavings) for more information.

# Technology meets tradition

Kaeser's reputation for reliability is built on a tradition of quality that goes back nearly a century. As one of the world's largest compressor manufacturers and compressed air systems providers, Kaeser Compressors is represented throughout the world by a comprehensive network of branches, subsidiary companies and factory trained partners.

With innovative products and services, Kaeser Compressors' engineers help customers to enhance their competitive edge by working in close partnership to develop progressive system concepts that continuously push the boundaries of performance and compressed air efficiency. Every Kaeser customer benefits from the decades of knowledge and experience gained from hundreds of thousands of installations worldwide and over ten thousand formal compressed air system audits.

These advantages, coupled with Kaeser's worldwide service organization, ensure that our compressed air products and systems deliver superior performance with maximum uptime.



***Built for a lifetime.™***

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