Press Release

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FOR IMMEDIATE RELEASE

KAESER Introduces Redesigned DSG Oil-Free Series Built for Maximum Uptime and Uncompromised Energy Efficiency

KAESER's redesigned DSG oil-free screw compressors (125–250 hp) deliver up to 10% higher flow and 10% lower specific power for maximum efficiency.



Improved DSG series with up to 10% increase in flow and pressures to 160 psig.

Download a high-resolution image here.

Kaeser Compressors, Inc. has announced the launch of its redesigned **DSG Series oil-free rotary screw compressors** from **125 to 250 hp.** Each DSG model outperforms the market in both cfm flow and specific performance (kW/100 cfm)-- establishing a new benchmark for best-in-class energy efficiency. These 125, 150, 175, 200 and 250 hp models are available both air and water-cooled, in both fixed and variable speed control.

Engineered for food and beverage processing, pharmaceuticals, chemical manufacturing, electronics and other sensitive, high-demand operational environments, the new DSG Series combines superior reliability, energy performance and uncompromised air quality.

Unmatched Efficiency and Flow Performance

Core mechanical innovations include the new SIGMA XG 40 airend, water jacket cooling, variable-speed cooling fan, and an IE4 / IE5 Ultra-Premium Efficiency motor drive system. This next-generation DSG Series achieves an average 10% total system efficiency gain:

- **Air-cooled fixed speed models** feature up to a **11% increase in volume flow** (achieving up to 1169 cfm at 125 psig) and an average **8.5% reduction in specific power**.
- **Water-cooled fixed speed models** offer up to a **9% increase in volume flow** and an average **7% reduction in specific energy requirements**.
- DSG units have an **expanded pressure range** up to **160 psig** to support a wider range of applications.
- **Sigma Frequency Control (VFD)** models outperform competing market models across mid-to-high plant air demand profiles.
- The patented **Kaeser Sealing Air System (K-SAS)** creates an active, pressurized air barrier between the oil-lubricated bearings and the compression chamber, ensuring 100% oil-free compression permanently.

Maximum Uptime

Maintenance and serviceability have also been significantly streamlined in this new design. Improved accessibility to heat exchangers and other components reduces service time, and automatic bearing lubrication eliminates a service task. Further, longer component life significantly extends service intervals. Airend design life has been expanded to **60,000+ hours**, gearbox oil change intervals lengthened to **18,000 hours**, and condensate drain service intervals tripled to **18,000 hours**.

More Than Just Oil Free

DSG XG airends feature safe, biocompatible PEEK coating, an organic polymer with superior heat and wear resistance. Every component contacting the air stream is fully compliant with **FDA and VO 1935 regulations**,

About Kaeser Compressors, Inc.: Kaeser Compressors is a leader in reliable, energy efficient compressed air equipment and system design. We offer a complete line of superior quality industrial air compressors as well as dryers, filters, SmartPipe™, master controls, and other system accessories. Kaeser also offers blowers, vacuum pumps, and portable gasoline and diesel screw compressors. Our national service network provides installation, rentals, maintenance, repair, and system audits. Kaeser is an ENERGY STAR Partner.

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backed by **ISO 8573-1 Class 0 residual oil certification and ISO 22000 compliance**. DSG compressors and their manufacturing process are silicone-free.

All DSG models are available with an integrated i.HOC dryer to remove moisture using the heat of compression to regenerate the desiccant bed without wasting compressed air or requiring the additional power consumption of heaters and blowers as with two-tower desiccant dryers. This further increases the energy efficiency of the entire system. Flexible, integrated water cooling options allow you to optimize operating temperature, efficiency, dewpoint and recoverable heat without additional equipment and external piping.

Next-Generation Digital Control

The new DSG Series comes standard with the latest generation **SIGMA CONTROL®**. Featuring a capacitive color touchscreen, RFID access control, WiFI and bluetooth connectivity, actively monitoring integrated vibration and Pt100 sensors, and automatic motor greasing, the system is fully **cybersecurity-ready** and easily integrates into smart factory architectures and master controllers like the **SIGMA AIR MANAGER (SAM) 4.0**.

Reclaim Floor Space

KAESER engineers reduced the unit footprint by 9%, freeing up critical floor space and simplifying the replacement of aging equipment without compromising service access.

For more information, visit us.kaeser.com/oilfree. To be connected with your local authorized Kaeser representative, please call (877) 417-3527.

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