

PRESS RELEASE

OmniGrade: Pfeiffer Vacuum offers a new customized RGA system for sophisticated cleanliness verification

- **Residual gas analysis system with low detection limits**
- **Automated measurement process**
- **Modular approach for adaption to customer requirements**

Asslar, Germany, November 15, 2023. In addition to vacuum pumps, leak detectors, measurement and analysis devices, components as well as vacuum chambers and systems, Pfeiffer Vacuum now also offers customized turn-key solutions in form of residual gas analysis systems. Fast-emerging markets with advancing technical requirements place an increasing value on superior cleanliness, as molecular contamination negatively affects the functionality of manufactured products. Therefore, more and more customers are defining higher requirements for cleanliness. For instance, in the EUV lithography market they are driven by the Generic Standards GSA 07 1221 & GSA 07 2221. Essential to securing the quality of parts is to properly determine the outgassing rates under a high vacuum environment by utilizing Pfeiffer Vacuum's new OmniGrade system.

OmniGrade is a sophisticated residual gas analysis (RGA) system. Its design is selected to meet the specific testing demands. A team of Pfeiffer Vacuum experts is dedicated to delivering the best solution to meet customer requirements, taking into account total cost of ownership and lead times. OmniGrade configurations include two or three chambers consisting of the spectrometer chamber in which the mass spectrometer is positioned, and a measurement chamber where the samples are placed during measurement. Options include a load lock chamber to minimize

system background and an automated sample transport system. The OmniGrade system was designed for low footprint demands and easy integration with latest interfaces. Cleanroom compatibility is possible and the mass spectrometer according to the requirements (PrismaPro or HiQuad) can be selected. Thermal heating, either of the pure system or together with the sample (bake-out), will contribute to further optimizing the measuring capability and improving sample cleanliness.

“OmniGrade incorporates energy-efficient components and advanced technologies that help to optimize cleanliness verification processes, resulting in less waste and more efficient use of resources in the customer’s production environment”, said Patrick Walther, Strategic Product Manager Instruments at Pfeiffer Vacuum, at the Precision Fair.

Find more information about OmniGrade here:

<https://t1p.de/pfeiffer-vacuum-OmniGrade-en>



Caption: Pfeiffer Vacuum offers a new customized RGA system for sophisticated cleanliness verification

Find high-resolution images for download [here](#).

Press Contact:

Pfeiffer Vacuum GmbH

Public Relations

Sabine Neubrand

T +49 6441 802 1223

F +49 6441 802 1500

Sabine.Neubrand@pfeiffer-vacuum.com

www.pfeiffer-vacuum.com

About Pfeiffer Vacuum

Pfeiffer Vacuum (stock exchange symbol PFV, ISIN DE0006916604) is one of the world's leading providers of vacuum solutions. In addition to a full range of hybrid and magnetically levitated turbopumps, the product portfolio comprises backing pumps, leak detectors, measurement and analysis devices, vacuum components as well as vacuum chambers and systems. Ever since the invention of the turbopump by Pfeiffer Vacuum, the company has stood for innovative solutions and high-tech products in the analytical, industrial, research & development, semiconductor and future technologies markets. Founded in 1890, Pfeiffer Vacuum is active throughout the world today. The company employs a workforce of some 4,000 people and has more than 20 sales and service companies as well as 10 manufacturing sites worldwide.

For more information, please visit www.pfeiffer-vacuum.com.

Follow us at:      