

PRESS RELEASE

Pfeiffer Vacuum introduces new HiScroll ATEX scroll pump

- **For pumping potentially explosive gases**
- **Explosion-proof interior**
- **Applications in analytics, industry or research & development**

Asslar, July 26, 2021. The new pumps in the HiScroll ATEX range meet the requirements of the European directive ATEX II 3/-G Ex h IIC T4 Gc X +5° C ≤ Ta ≤ +40 °C and are therefore suitable for pumping potentially explosive gases. Depending on the operational requirements, the ATEX directives are subdivided into different categories based on the conditions under which the pumps are allowed to operate. The HiScroll ATEX conforms to equipment category 3G based on contact with the pumped substance and meets temperature class T4. This allows all gases up to and including explosion group IIC to be pumped. It is even possible to pump hydrogen.

With these properties, the HiScroll ATEX covers many applications in the field of analytics, industry or research & development. Explosion-protected devices are used in many sectors, including in industrial processes such as generating and pumping hydrogen. The HiScroll ATEX is also used in laboratories for pumping solvent-based liquids and gases which can produce combustible vapors. The ATEX certification is awarded since the HiScroll ATEX has no sources of ignition for potentially hazardous gas mixtures.

Pfeiffer Vacuum scroll pumps offer high pumping speeds during pump-down, even at atmospheric pressure. The completely dry and hermetically sealed vacuum pumps achieve a nominal pumping speed of 6 to 20 m³/h. They are characterized by their compact design and extremely quiet, low-vibration operation (<47 dB[A], in stand-by

mode <42 dB[A]). They have a high water vapor tolerance, and condensation in the vacuum pump is therefore prevented from the start. The integrated two-stage gas ballast valve allows individual adjustments to be made to the process requirements.

The pumps can be easily connected to other Pfeiffer Vacuum products, such as turbopumps, via RS-485, EtherCat or ProfiNet and can be operated with a higher-level controller or a PC. The intelligent interface enables use of the RPM regulator or the innovative stand-by mode, which allows the pump to be optimally adjusted and operated for the application. At the same time, this minimizes pump wear and extends maintenance intervals. The proven Pfeiffer Vacuum quality due to high-quality, durable components ensures a long lifetime, low operating costs and reduced environmental impact. Easy maintenance of the pumps enables not only shorter service times but also maximum availability. The integrated safety valve and self-regulating operation of the pump guarantee its safe operation.

The powerful yet efficient drive is characterized by a 15 % higher efficiency compared to conventional drives. This enables maximum performance at low temperatures and easier and more cost-effective cooling.

Find more information about HiScroll here:

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



Caption: Pfeiffer Vacuum HiScroll ATEX

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

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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, 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 that are used in the Analytics, Industry, Research & Development, Coating and Semiconductor markets. Founded in 1890, Pfeiffer Vacuum is active throughout the world today. The company employs a workforce of some 3,300 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.

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