AERZEN expands its general Turbo program. Highest energy efficiency with smallest footprint.

The Aerzen Turbo G5^{plus} series is one of the most compact and efficient turbos in its class. The new AT 60 size brings with it numerous innovations. In addition to increased system pressure, the new turbo also scores with an extended control range and an efficiency increase of up to 10%.

The powerful turbo blowers of the Aerzen Turbo series are especially suitable for applications in municipal or industrial wastewater treatment plants and now, with 19 different models available, cover a volume flow range from 300 m³/h up to 16,200 m³/h and system pressures up to 1,000 mbar.

The latest edition to the turbo series, Aerzen Turbo AT 60-0.9S, is designed for volume flows from 900 - 2640$^{m3/h}$ and assembly capacities up to 50 kW. Thanks to a completely new motor design, the maximum differential pressure has also been optimised to 900 mbar.

The development team was able to achieve significant increases in efficiency. Improved energy efficiency has been made possible through an aerodynamic redesign of the turbo impeller and the spiral housing. Complex CFD analyses formed the basis for this.

For a turbomachine of this size, the new Turbo AT 60 also has a very high control range of 35 - 100 % and a constantly high overall efficiency over the entire control range thanks to the AERZEN permanent magnet motor, which already meets the future requirements of the IE5 classification. The dimensions of the revised power assembly are also impressive. The footprint of less than 1m² facilitates transport through the narrowest of door openings. The footprint of the assembly alone takes up approximately 60% less space. Like all other models, the AT 60 features the innovative AERZEN air bearing with double coating for extended bearing life and the new multilevel frequency inverter technology for extended applications.

All the advantages at a glance:

- Increased energy efficiency of up to 10%; highest possible efficiency up to 44m³/min
- Footprint < 1 m²
- Extended control range of 35-100% and constantly high overall efficiency
- Extended bearing life, thanks to innovative AERZEN air bearing with double coating, up to 80,000 operating hours independent of start-stop cycles, highest reliability even under extreme operating conditions and pressure fluctuations
- Low noise operation of 72-73 dB(A)
- Lowest maintenance effort, with only regular filter change required
- Extended application possibilities at ambient temperatures up to 50°C
- Active pump protection by means of automatic speed increase
- Comfortable turbo control
- 100% oil-free
- Plug & Play solution through integrated control and power cabinet

As of: 06/2021

Scope: 423 words / 2707 characters (with blanks)

The company

Industrial plants all over the world are supplied with gaseous media using AERZEN blowers and compressors. The innovative AERZEN machine technology represents experience gained over more than 150 years of company history. The range of products includes rotary lobe compressors, positive displacement blowers, turbo blowers and screw compressors. ~~AERZEN blowers and compressors are DIN EN ISO 9001 quality tested and certified. The range of products is flexible and offers besides standard products customised special solutions.~~

(We had already adapted the text last year!)

The AERZEN product portfolio is flexible and offers, besides standard products, customised special solutions. Digital services can be used to increase efficiency, availability and productivity in a sustainable and future-oriented manner.

In addition, AERZEN After Sales Service offers a wide range of services - from full maintenance contracts to repairs and modernisations of existing plants.

Press and media contact:

Sebastian Meißler

Aerzener Maschinenfabrik GmbH

Reherweg 28

31855 Aerzen, Germany

Phone: +49 5154/81-9970

Fax: +49 5154/81-709970
sebastian.meissler@aerzen.com
www.aerzen.com

Voucher copy requested!