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## **More efficiency for the future**

AERZEN Delta Hybrid with new sizes: D23S and D31S

**The AERZEN Delta Hybrid with direct drive sets new standards in process air generation. The innovative screw blowers are digitally ready and impress with optimum energy efficiency, minimum footprint, maximum user-friendliness and absolute process reliability. Now, the compressor specialist is presenting two additional sizes, thereby consistently pursuing its course towards even more efficient and sustainable compressed air supply.**

With the new D23S and D31S models, AERZEN is expanding its successful [Delta Hybrid series](#) with two sizes that are far ahead of their time in terms of efficiency. The centrepiece is the direct drive with gear wheels, known from the D50S, which ensures greater efficiency. This is complemented by the optimised rotor profiles, which further reduce energy consumption and improve the acoustic properties at the same time. The IE5 motors are a particular highlight: the innovative synchronous reluctance permanent magnet motors significantly exceed the efficiency of IE4 motors and set new standards in energy savings - even in the partial load range. This underlines AERZEN's leading role in compressed air technology and indicates how high performance and sustainability can be successfully combined.

## **Innovative design, maximum reliability**

Both sizes convey 100% oil-, absorbent- and PFAS-free process and compressed air (oil-free operation according to ISO 8573-1, class 0) and offer a very large turndown ratio of 1:5. One VFD is already integrated and ensures precise and stepless adjustment of the volume flow to the current demand. The packages are designed for maximum reliability and durability and guarantee absolute process safety - thanks to bearings with a theoretical service life of more than 60,000 operating hours, pressure lubrication of the anti-friction bearings, extended oil change intervals of up to 16,000 operating hours and the use of an oil level switch to actively monitor the oil level. The drive components are completely maintenance free.

## **Plug-and-play solution to meet the highest demands!**

Delta Hybrid packages are fully pre-assembled and pre-programmed and are therefore immediately ready for connection and operation. Their extremely compact type of construction with a footprint of only 1.68 m<sup>2</sup> allows for a particularly space-saving installation, and even a side-by-side installation of several machines can be easily implemented. Operation and maintenance are performed exclusively from the front and rear. With a maximum sound pressure level of 73 dB(A), these machines are among the quietest in their performance class on the market.

Delta Hybrid screw blowers can be used globally - even in zones with extreme ambient temperatures of up to +50°C.

## **AERtronic**

### **The path to the digital future.**

With the integration of the intelligent [AERtronic® package control system](#), AERZEN actively supports its customers in their move towards digitisation and makes their systems fit for the networked future. AERtronic enables comprehensive monitoring and precise control of suction, system and oil pressure as well as oil and discharge temperature of the compressed air, thus creating maximum transparency, highest operational reliability, perfect machine availability and optimum efficiency.

### **Process air supply of the future**

The Delta Hybrid combines state-of-the-art drive technologies with exceptional energy efficiency (energy savings of up to 37% compared to conventional blowers), optimised acoustics and extreme compactness. It impresses with above-average durability and reliability, easy installation and commissioning, minimum maintenance costs and quiet operation – combining all the properties that modern users expect from a top-of-the-range solution. The new sizes D23S and D31S replace the belt-driven D25S and D30S and expand the series, which will in future include the sizes D23S, D31S, D40S, D50S, D65S and D80S. The new packages will make their debut at POWTECH in September 2025, with series production scheduled to start in early 2026.

You will find AERZEN at POWTECH 2025 in hall 9 at stand 9-420.

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## **INFOBOX**

|                        | <b>D23S</b>                  | <b>D31S</b>                  |
|------------------------|------------------------------|------------------------------|
| Volume flow:           | max. 1,460 m <sup>3</sup> /h | max. 1,800 m <sup>3</sup> /h |
| Turndown ratio:        | 1:5                          | 1:5                          |
| Differential pressure: | up to 1,250 mbar (g)         | up to 1,250 mbar (g)         |
| Motor rating:          | 37 kW                        | 45 kW                        |
| Sound pressure level:  | max. 72 dB(A)                | max. 73 dB(A)                |
| Installation space:    | 1.64 m <sup>2</sup>          | 1.64 m <sup>2</sup>          |

## About AERZEN

Industrial plants around the world are supplied with gaseous media using AERZEN blowers and compressors. The innovative AERZEN machine technology is the result of over 160 years of experience. The AERZEN product portfolio includes rotary lobe compressors, positive displacement blowers, turbo blowers and screw compressors and, in addition to standard products, also offers 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 comprehensive range of services - from full maintenance contracts to repairs and modernisations of existing plants.

## Image overview:



## AERZEN-Delta-Hybrid.jpg

AERZEN expands its Delta Hybrid screw blowers with the D23S and D31S sizes and indicates how maximum performance and sustainability can be successfully combined.

*Image: AERZEN*

## Keywords

Screw blowers, rotary lobe compressors, blowers, compressors, direct drive, energy efficiency, Plug & Play, process air, compressed air, digital ready, AERtronic, control system, Delta Hybrid, IE6 motors

## Meta title

New sizes: AERZEN Delta Hybrid D23S and D31S

## Meta description

AERZEN expands its Delta Hybrid screw blowers with two even more efficient sizes. Discover the advantages now!

## **Deep links**

<https://www.aerzen.com/de/produkt/schraubengeblaese-delta-hybrid-mit-direktantrieb>

<https://www.aerzen.com/de/produkte/steuerungstechnik/aertronic-aggregatesteuerung>

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