

ASYS Cleanroom implements two cleanroom classes in a single laminar flow system

- › **ISO 8 and ISO 6 cleanliness classes – in one laminar flow system**
- › **Quiet operation < 50 db(A)**

ASYS Cleanroom, the specialist for cleanrooms and dry storage systems, has developed a special laminar flow system for a well-known automation company. The system is unique because it meets the ISO class 8 and ISO class 6 requirements in a single system.

The customer has developed a new automation solution. The solution is manufactured in a two-stage production process, but each stage requires a different cleanliness class. As the new solution is not yet established on the market, the laminar flow system has to be extensible and flexible in particular. Low noise during operation and as little vibration as possible were also essential features for the customer.

The ASYS experts used vertical blinds to divide the ISO 8 and ISO 6 sections. This has the advantage that separate process steps can be connected in a flexible way. The ISO 8 section was fitted with one on-top filter fan unit and the ISO 6 section with two on-top filter fan units. "The particular challenge was to get the required classes without cross-contamination," explains Fabian Autenrieth, Product Manager at ASYS Cleanroom GmbH. "In the end, we used precise regulation of air flows to prevent cross-contamination between the two sections. We also installed a sensor-controlled air speed regulator, which automatically adjust the volume of air after someone enters or leaves the cleanroom."

The great simplicity of the control system is a major advantage for this design compared to two single LAMINO cabins, as the two separate sections of the system can be controlled by one central controller. The LAMINO cabin also features quiet operation at < 50 dB(A), ensuring a calm and peaceful working environment.

The modular design provides maximum flexibility and extensibility. If production is expanded in future, more laminar flow units can be added with ease. "Our many years of experience in planning and installing cleanrooms meant we could respond very quickly to meet all the new requirements," says Fabian Autenrieth.

The customer is already successfully using the system. Further laminar flow units are in the pipeline.

About ASYS Prozess- und Reinraumtechnik GmbH

ASYS Cleanroom GmbH develops and produces solutions in cleanroom technology, laminar flow systems, dry storage systems, storage lift systems, and special solutions in Dornstadt, Germany. Customers include international companies and research institutes in microelectronics, semiconductor manufacturing, precision engineering, optics, biotechnology, pharmaceuticals, and medical technology. The high-quality products and services play a key role in quality assurance and optimization of industrial production processes.

About the ASYS Group

The ASYS Group is a global technology company and leading supplier of standard and special systems for the electronic, solar, and life science industries. ASYS Automation Systems GmbH is the managing company of the Group.

The headquarters in Dornstadt near Ulm, Germany, controls the activities of the subsidiary companies. With over 1000 employees worldwide, the ASYS Group develops, manufactures and markets high-quality, innovative products. It has a global sales network with local partners in more than 40 countries. 20 branch offices in Europe, Asia and America allow short support response times.

Caption: ASYS LAMINO Workplace and LAMINO Cabin

ASYS Electronics

November 9, 2017

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