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Efficient paint mist separation with edrizzi® Cube in Cube at LEICHT Küchen

Founded in 1920 by the Leicht brothers, LEICHT Küchen AG specialises in the development and manufacture of high-quality kitchen solutions. As an international manufacturer in the premium segment, LEICHT combines timeless design with innovative functionality. The company is one of the leading suppliers of modern kitchen architecture "Made in Germany".

Since July 2025, LEICHT has been painting in one of three identical clean room cabins with the latest edrizzi® system component Cube in Cube. Back in 2019, the premium kitchen manufacturer converted its wet separation to the edrizzi® dry separation system. Slotted paper filters were used in the meantime for particularly dry surface materials. With the conversion in summer 2025 to the new Cube in Cube filter, which was developed by brainflash specifically for dry surface materials and low initial pressure differences, LEICHT is now relying on a sustainable, economical and maintenance-friendly system. Cube in Cube is tailor-made for the requirements of high-quality painting systems – from automotive manufacturing to furniture construction, as here at LEICHT.

Consistently high quality with minimal maintenance thanks to edrizzi® system components

The extraction area of the paint booths at LEICHT measures 4,000 mm × 2,000 mm with an exhaust air capacity of 16,000 m³/h. A total of 32 Cube in Cube filters are used in the converted system, covering a total filter area of 8 m². Thanks to the innovative design of the edrizzi® Cube in Cube, the brainflash development team was able to triple the filter area per square metre compared to conventional cardboard filters.

With the Cube in Cube, brainflash GmbH has developed a new component for dry separation that combines efficiency, ergonomics and sustainability. The cube-shaped filter is made of sturdy cardboard and is lined on five sides with the innovative naffi® filter fleece. This glass fibre-free filter material is made of 100% recycled polyester and is harmless to health.

The naffi® filter medium impresses with its high dust storage capacity and durable structure. It enables longer service life, clean handling without protective clothing and a significant reduction in maintenance costs – ideal for use in painting systems with dry paint dust, such as those found in furniture and industrial production.

Stable system operation thanks to low initial pressure difference of the edrizzi® Cube in Cube

With an initial pressure difference of only around 10 Pa, the edrizzi® system with Cube in Cube is extremely energy-efficient. The low flow resistance ensures an even air flow throughout the entire cabin and significantly reduces the energy consumption of the exhaust air system. At the same time, the pressure curve remains stable throughout the entire service life, which ensures consistently high paint quality and protects the system components.

Delivered folded flat, assembled in just a few simple steps and easy to maintain

The paints used at LEICHT Küchen are dusty and dry as soon as they hit the partition wall. This is where the edrizzi® system with Cube in Cube shows its strengths: it ensures stable pressure differences (initial pressure approx. 10 Pa), clean exhaust air flow and a filter change interval of 4–6 weeks. Maintenance and filter replacement are simple, quick and safe. Like all edrizzi® system components, the Cube in Cube filter boxes are delivered and stored folded flat and unassembled to save space. Thanks to the prefabricated and fitted filter media, the filter boxes can be assembled quickly and intuitively.

The Cube in Cube from edrizzi® stands for sustainable technology in the furniture industry

In the fourth quarter of 2025, another paint booth in the clean room painting area at LEICHT Küchen was converted to the edrizzi® system with Cube in Cube system components. The conversion to dry separation eliminates water consumption, paint sludge and costly disposal. The compact, cardboard-based filter cubes are easy to handle and can often be recycled for energy after use. The naffi® filter medium is one of the most sustainable filter mats in the industry. This enables LEICHT Küchen to support its own sustainability goals while reducing operating costs and downtime.

Voices from the field.

"We already relied on the edrizzi® system when converting from wet to dry separation. With the new Cube in Cube system component, we have now been able to increase efficiency and service life many times over and even dispense with a separate post-filter stage."

Wolfgang Oberle, Head of Plant 5, LEICHT Küchen AG

New products at PaintExpo.

In addition to this new Cube in Cube system component, brainflash GmbH will be presenting another revolutionary trade fair innovation at PaintExpo (Hall 3, Stand 3213) that is specifically aimed at applications in the automotive industry.

Technical data of the system

- Location: LEICHT Küchen AG, Germany
- Conversion: May 2019
- System manufacturer: Förster Helmut / LINOCEM
- Conversion area: W 4,000 mm × H 2,000 mm
- Exhaust air capacity: 16,000 m³/h
- edrizzi® system: 32 Cube in Cube paint mist separators (8 m² filter area)
- Paint: Solvent-based paint, dry and dusty
- Filter change interval: 4–6 weeks
- Initial pressure difference: 10 Pa

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The paint booths at LEICHT Küchen measure 4,000 mm x 2,000 mm with an exhaust air capacity of 16,000 m³/h. This picture shows the system before conversion to edrizzi® Cube in Cube.



The paint booth after conversion to the innovative edrizzi® Cube in Cube with a filter change interval of 4-6 weeks.



The edrizzi® Cube in Cube system component was specially developed for applications with fast-drying or dusty overspray.



LEICHT Küchen AG specialises in the development and manufacture of high-quality kitchen solutions.

edrizzi.com

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