

CASE STUDY

JACOB TUBING SYSTEMS IN USE



JACOB TUBING SYSTEMS FOR AIR PURIFICATION



The elimination of resistant germs and mold spores is important, particularly in industrial food production. The UVpro circulating-air purifiers from orca GmbH reliably perform this task. For the manufacture of these purifiers, the company relies on tubes made by JACOB, which are used to house the devices.

THE PROJECT

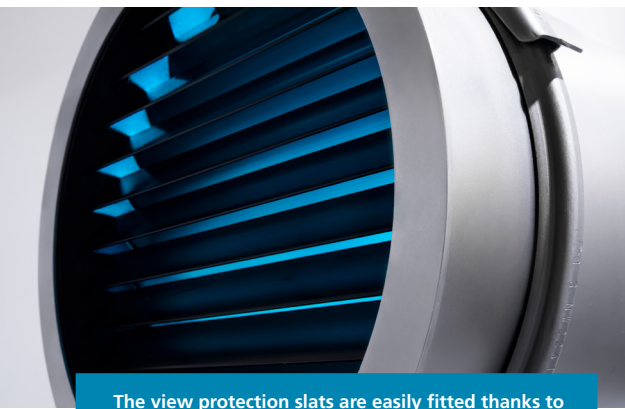
Circulating-air purifiers from orca GmbH are used in many of the large food production companies in Germany and Europe. A purification technique based on UV light is used to kill bacteria and prevent germ accumulation. The equipment is integrated inside stainless-steel tubes made by JACOB, and the UVpro devices purify 145 to 850 square feet of air per hour, depending on the model. In cool rooms and storage rooms, they are suspended from the ceiling, which means they can also be easily retrofitted. They help improve product hygiene and extend the shelf life of products. During the Covid-19 pandemic, the circulating-air purifiers are also useful in reducing the risk of infection for people working in the rooms. The optimized vortex system ensures that 99% of the bacteria and viruses are killed in just one pass.

THE MANUFACTURE

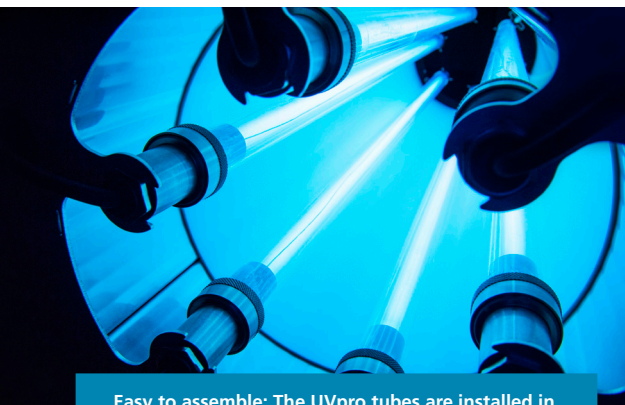
JACOB stainless-steel tubes with a wall thickness of 19 gauge are used in the production of the air purifiers. The UVpro range includes units of different sizes, which means that longitudinally seam-welded tubes with diameters of 5" to 12" and a total length of up to 3 feet are used.



Well equipped: JACOB tubes are used to house the UVpro circulating-air purifiers



The view protection slats are easily fitted thanks to the QUICK CONNECT pull-ring



Easy to assemble: The UVpro tubes are installed in high-quality stainless-steel tubes

The tube sections are fitted with UVpro tubes as well as reflectors and fans. QUICK CONNECT pull-rings, developed by JACOB, are then used to fit view protection slats at the openings.

THE SPECIAL FEATURES

The devices have to meet the stringent requirements of the food industry. Only components that do not corrode and are resistant to cleaning agents and water may be used. The large selection of different tube sections made of 304 stainless steel, and the QUICK CONNECT pull-rings for easy installation were the decisive factors that led to the JACOB tube system being chosen for the housings. With the QUICK CONNECT system, the short rings with view protection slats can be quickly fitted and also allow easy access to the inside of the units. JACOB products of various sizes are used, all of which belong to the standard range of 8,500 parts and are therefore flexibly available at short notice. orca GmbH simply orders the products it needs from the JACOB webshop.

THE COMPANY

orca GmbH is based in Kürten, in Germany, and is a manufacturer of purification systems based on the use of UVC light. The products are available throughout Europe under the brand name UVpro. They are used to treat air, surfaces and liquid media, especially in the food and pharmaceutical industries.



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