

DATA SHEET UVO-C 950K

Intelligent UV-ozone air purifier for grease and odour removal in commercial kitchens



Product overview

The R-FILTER UVO-C 950K is a compact, highly efficient device based on UV ozone technology, which has been specially developed for professional exhaust air systems in commercial kitchens. Thanks to its design, it can also be retrofitted into almost any existing system. The device is located outside the treated air flow. The kitchen exhaust fan draws ambient air through the device. Broadband UV lamps in the reactor chamber generate large amounts of ozone in the 185 nm range from the oxygen in the air drawn in. The ozone molecules emitted from the device are injected into the air duct, where they come into contact with oxidisable substances, including fat molecules and other organic compounds. The ozone reacts with these substances and breaks them down, producing water and carbon dioxide. All parts of the device that come into contact with UV light and ozone are UV and ozone resistant.

Main advantages

- Effective grease and odour removal with UV ozone technology
- Compact design – optimized for retrofitting
- Modern, colour LCD touch display
- Can be connected to a building management system (BMS)
- Feedback to replace mechanical filters
- Monitoring of the maintenance status of the electrostatic filter
- Safety system in accordance with EN 16282-8

Intelligent control and display functions

- Operating status indicator (active / standby / fault)
- Display of UV lamp status and operating time
- Real-time temperature and system information
- Maintenance messages and service warnings
- Feedback to replace mechanical filters
- Feedback on cleaning and maintenance of electrostatic filters
- Display of error codes and warning messages
- Direct on/off switching via the display



Integration with building management system

The UVO-C 950K is suitable for connection to building management systems (BMS). This enables remote monitoring of the device status, transmission of error messages, and more efficient operational organization.

Application areas

- Restaurants and commercial kitchens
- Hotels
- Catering-companies
- Industrial cooking and processing companies

Technical data

Type	UVO-C 950K
Air treatment capacity (m ³ /h)	6500-12500
Air speed in channel (m/s)	ca. 4
Contact time minimum (sec)	3
Reaction distance minimum (m)	12
Dimensions (HxSxM) (mm)	900 x 380 x 272
Connection Ø (mm)	150
Weight (kg)	22,5
Supply voltage	230V/50Hz
Power consumption (A)	2,85
VUV lamps	10x95W
Ozone production per lamp (g/h)	max. 7,5
Controller	LCD
Display	touch screen 5"
Building management system (BMS)	compatible
IP protection class	IP 54
Housing material	stainless steel
Connection for electrostatic filter (ESP)	✓
Feedback from the mechanical filter	✓
Safety interlocks according to EN-16282-8 standard	door opening sensor, pressure sensor and exhaust fan

