IVOLTAIR
ELECTROSTATIC AIR CLEANER



ODOUR REMOVAL · AIR DISINFECTION

# UV Bank with **Ozone Generation System**

Add-on UV / ozone treatment module for IVOLTAIR Electrostatic Air Cleaners.




| 660 µW/cm² | 10,000 h | 5 models |
|---|---|---|
| MAX UV OUTPUT | RATED LAMP LIFE | IN THE RANGE |

## 01 Product Description

The IVOLTAIR UV Bank with Ozone Generation System is a modular air-treatment section designed to work with the IVOLTAIR range of Electrostatic Air Cleaners. Installed downstream of the electrostatic precipitator, it exposes the exhaust air stream to high-intensity UV lamps that both disinfect the air and generate ozone. The ozone oxidises odour-causing compounds, so the air discharged to atmosphere is cleaner and substantially free of odour.

## 03 Working Principle

**STAGE 1**
### Pre-filtration (ESP)
Smoke, grease and particulate matter are captured in the upstream electrostatic precipitator.

**STAGE 2**
### UV irradiation
The cleaned air passes through banks of UV lamps that inactivate airborne micro-organisms.

**STAGE 3**
### Ozone oxidation
Ozone produced by the lamps oxidises odour-causing compounds in the duct before discharge.

## 02 Key Features

- Dual-action treatment: UV irradiation and ozone oxidation in one module
- High-intensity UV lamps — up to 660 µW/cm² UV output
- Integrated ozone generation for effective odour oxidation
- 10,000-hour rated lamp life for low running cost
- Digital timer with run-hours display for planned lamp replacement
- “UV ON” blue LED status indication on the operator panel
- Lamps to IS 2418, ballasts to IS 13021, CE-compliant HV supply
- Designed to integrate downstream of IVOLTAIR ESP sections

## 04 Typical Applications

- Commercial kitchen exhaust
- Hotels & restaurants
- Food courts & malls
- Industrial & institutional canteens
- Food processing units
- Odour-laden ventilation exhaust

## 05 Technical Specifications

| Parameter | IV2500UV | IV5000UV | IV7600UV | IV10200UV | IV15200UV |
|---|---|---|---|---|---|
| UV lamp wattage | 40 W × 2 | 130 W × 2 | 130 W × 2 | 130 W × 2 | 130 W × 6 |
| Number of UV lamps | 2 | 2 | 2 | 2 | 6 |
| Total UV lamp power | 80 W | 260 W | 260 W | 260 W | 780 W |
| UV output (µW/cm²) | 115 | 420 | 420 | 420 | 660 |
| Ozone output (g/h) * | 1.24 | 4.2 | 4.2 | 8.4 | 12.6 |
| **COMMON TO ALL MODELS** | | | | | |
| Rated lamp life | 10,000 hours | | | | |
| Control unit | Digital timer with run-hours display | | | | |
| Operator interface | “UV ON” blue LED indication | | | | |
| Application | Odour removal & air disinfection | | | | |

** Ozone output at standard conditions. Total UV lamp power is the sum of rated lamp wattages.*

**UV output** · µW/cm²

| | |
|---|---|
| IV2500UV | 115 |
| IV5000UV | 420 |
| IV7600UV | 420 |
| IV10200UV | 420 |
| IV15200UV | 660 |

**Ozone output** · g/h

| | |
|---|---|
| IV2500UV | 1.24 |
| IV5000UV | 4.2 |
| IV7600UV | 4.2 |
| IV10200UV | 8.4 |
| IV15200UV | 12.6 |

## 06 Standards & Compliance

**ASHRAE 52.2-2017**
Standard for filter efficiency test

**NFPA 96**
Safety standard for ventilation application

**NFPA 79**
Electrical standard

**IS 2418**
Standard for UV lamps

**IS 13021**
Standard for UV ballast

**CE**
Standard for high-voltage power supply

## 07 Safety & Maintenance

### Safety

- UV radiation and ozone are hazardous to eyes and skin — never view energised lamps directly.
- Isolate the electrical supply before opening any access door or panel.
- Allow residual ozone to disperse before entering the cabinet or duct.
- Installation and servicing by qualified personnel only.

### Maintenance

- Monitor lamp hours on the run-hours display; replace lamps at 10,000 hours.
- Keep lamp surfaces clean to maintain rated UV output.
- Check the “UV ON” indication during routine inspection.
- Use only genuine IVOLTAIR replacement lamps and ballasts.

## Model Selection & Enquiries

Share your exhaust airflow, application and site details for correct model sizing.

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*Specifications are subject to change without notice as part of continuous product improvement. Images are for illustration only.*