



Air purification systems

ZANDAIR PCOC™3 Air Purification Unit

In-duct medical laboratory purification system photo catalytic air purifier

The PCOC™3 is the ultimate fixed system for highly efficient air purification in medical laboratories, and other facilities, which have extreme demands on superior air quality.

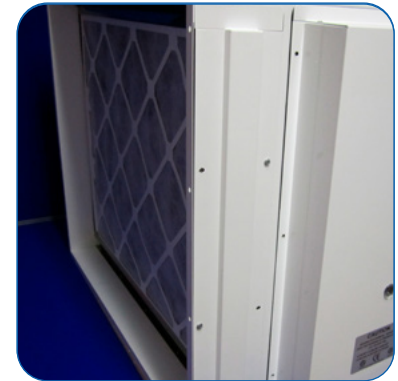
Photo-catalytic oxidizing (PCO) technology converts and neutralises Volatile Organic Compounds (VOC), odours, fumes, and toxic chemicals to benign water and carbon dioxide by-products.

Our patented process to affix TiO_2 to a solid substrate for this TiO_2 to interact with UVC radiation has the advantage that the wave length used does not get adsorbed by the oxygen molecules, thus does not create any ozone – O_3 (tri-oxygen). Naturally occurring ozone in the atmosphere is converted by the TiO_2 / UV interaction into normal di-oxygen (O_2) or other ambient gases which then get converted to benign matter, including diatomic oxygen (O_2) which forms 20.9% of our ambient atmosphere.

- **Fitted directly into your ventilation system**
- **Dwell time increased by placing 3 units in sequence, increasing decomposition of VOCs and pathogens.**
- **Germicidal ultraviolet light kills disease causing airborne virus and bacteria on contact.**



ZANDAIR PCOC™3 Air Purification Unit



Specifications	
Dimensions	659 mm x 670 mm x 585 mm
Weight	36 Kg
Max air flow	1500 CFM 42.5 m ³ / min Max Air Flow: 1200 CFM 34 m ³ / min
Max face velocity	625 FPM 190 m / min
Power	220-240 V / 50-60 Hz / 1.8 Amps 150 watts or 220 V / 50 Hz / 0.9 Amps 150 watts
Fuse	Replace only with AGC-2
Catalyst	TiO ₂ 19.5 m ²
U.V. range	253.7 NM U.V. range
Power consumption	6 UVC lamps at 20 watt each = 120 watt/hour
Application	230 m ²
Service	U.V lamps every 12 months Service, replace only with LTO 16 UV lamps. filter – every 6 months.
Air flow resistance	0.024 inches of water column = 5, 98 Pascal for a single PCO chamber
Warranty	2 year limited warranty on all components excluding lights and filter

CFM	m ³ /m	SP	Pascal	FPM	m/s
2000	56.63	0.21	52.30	578	2.93
1500	42.48	0.09	22.42	432	2.20
1000	28.32	0.03	7.47	288	1.46
900	25.49	0.02	5.98	259	1.32
600	16.99	0.01	2.99	173	0.88

Key:

- CFM** = cubic feet/minute
- m³/m** = cubic meter per minute
- SP** = static pressure
- Pascal** = Pascal
- FPM** = feet per minute
- m/s** = meter per second

Order Code	Description
FHTIZPCOC™3	ZANDAIR PCOC™3 In Duct Air Purifier System
FHTIZRK016	Replacement MERV-11 Electrostatic Filter for PCOC3.
FHTIZRK019	Replacement Set of Two UV Lamps 22W...3 Sets required for each PCOC™3
FHTIZRK025	Replacement MERV-13 Electrostatic Filter
FHTIZRK026	Replacement Potassium Permanganate Filter

Zi195/V1

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