

ESP 3500

designed for in-duct installation where other external sources provide air movement. It has a single combined aluminum ionizer/collector cell with stainless steel spiked ionizers and an air volume range up to 3,500 CMH at 95% and up to 4,000 CMH at 90%.

Specifications	
Dimensions (mm)	560D x 643W x 534H
Installation	Suspended, wall, frame, or duct mounted
Unit weight (kg)	50
Input voltage	220-240V/50Hz/1PH
Ionizer/collector output voltage	12kV/6kV
Product power (w)	30
Number of cells	1
Airflow (CMH)	4,000 (2,354 CFM)
Pressure drop (Pa)	≤65
Flange size (mm)	499 x 534
Controls	Power switch with an indicator light
Pre-filter	460L x 460W x 22.2D Standard aluminum mesh Heavy oil filter (optional)
Primary filter	Standard forever filter – electronic ionizer/collector cell
After-filter	Activated carbon plate filter (optional)
Power supply	High-frequency solid-state design
Efficiency	To 95% based on ASHRAE 52.2 To 99% for double pass (calculated)
Construction	Welded galvanized steel, 1.2mm (18 gauge) top/bottom, 1.5mm (16 gauge) columns
Finish	Blue epoxy powder coating (RAL 5017)
Particle size	0.01 to 10 microns
General	Multiple units can be joined together for increased volume or higher frequency

the odour mitigation of the commercial kitchen ventilation systems performance design and o
ant is advised to refer to: EMAQ, Control of Odour and Noise from Commercial Kitchen Exhaust
the 2004 report prepared by NETCEN for Defra, 5-9-18. Commercial Kitchen ventilation system
ments for odour control, page vi. – HIGH LEVEL ODOUR CONTROL

Odour arrestment plant performance

Low to medium level control may include:

1. Fine filtration or ESP followed by carbon filtration (carbon filters rated with a 0.1 second residence time).
2. Fine filtration followed by counteractant/neutralising system to achieve the same level of control as 1.

High level odour control may include:

1. Fine filtration or ESP followed by carbon filtration (carbon filters rated with a 0.2 - 0.4 second residence time).
2. Fine filtration or ESP followed by UV ozone system to achieve the same level of control as 1.

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Very high level of odour control may include:

1. Fine filtration or ESP followed by carbon filtration (carbon filters rated with a 0.4 – 0.8 second residence time).
2. Fine filtration or ESP followed by carbon filtration and by counteractant/neutralising system to achieve the same level of control as 1.
3. Fine filtration or ESP followed by UV ozone system to achieve the same level of control as 1.

Maintenance must be carried out to ensure these performance levels are always achieved.

ODOUR IMPACT ASSESSMENT

Details of the proposed odour mitigation measures to be applied have been provided.

NOISE IMPACT ASSESSMENT

In email, Mon 08/01/2024 16:16, the applicant has not submitted a project specific NIA; instead reliance upon acoustic report submitted as part of the change of use application in 2019.

DC/070702 - Change of use of the retail unit (A1) to a cafe/bar (A3/A4). Hepworth Acoustics, 57-61 STATION ROAD, CHEADLE HULME - PROPOSED GROUND FLOOR BAR: NOISE IMPACT ASSESSMENT, Report No: P18-450-R01-V1