

North London Metal Works

Quality and Reliable Fabrication Work

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We revisited your premises – 284-286 Whiteman Road. We inspected and took measurements to design a kitchen ventilation system /kitchen supply air system meets government requirements.

The ventilation system canopy will start from the front of the premiss. The ducting will run above the canopy on ceiling level and out onto the flat roof /at the rear of the building. The extract/supply fans to be sat on the flat roof with brackets with vibration mount and canvass connections. The kitchen extractor ducting will also run along the flat roof away from the rear building into an open area, the discharging duct work will be turned upwards 3 meters from the flat roof.

After analysing and ensuring that government guidelines are followed, the design of the kitchen ventilation system will consist of –

- Extract Custom fan – Helios G8D 630/4/4
- Supply custom fan - Helios G8D 560/4/4 both with speed controllers
- 10 meter s/steel canopy 650x1200x500 with internal lights
- Cavass connection on both sides of Extractor/Supply fans.
- Anti-vibration mounts on both Extract/Supply fans.
- Duct size -Approximately 600x600
- Access doors- to be fitted though out the system .[maintenance/cleaning].
- Baffle grease filters,hvca dw 172 reequipments.
- ESP 10500 unit.

The kitchen ventilation calculation assessment was confirmed with our expert manufacturer suppliers to ensure maximum effectiveness. Supplier: Eiv (2009) Ltd.

The service maintenance contract for the above system will include:

First inspection call will be within the first 6 months of installing ventilation system. Which will cover inspection of the pre-filters and changed if needed. Checking of carbon filters, monitor condition and again, change if needed. Removal of extractor fan and cleaning of all duct work. EST unit will also be inspected, maintained and cleaned.

Following manufacturers guidance all ventilation systems and units to be cleaned annually unless there is an increase of kitchen use, the contract will need to be inspected every 6 months.

ESP 10500

Designed for in-duct installation where other external sources provide air movement. It has three combined aluminum ionizers/collector cells with stainless steel spiked ionizers and an air volume range up to 10,500CMH at 95% and 12,000 CMH at 90%.

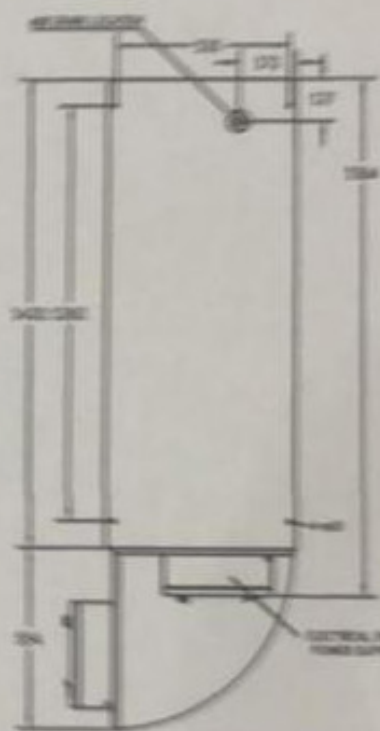
Specifications

Dimensions (mm)	560D x 1,564W x 534H
Installation	Suspended, wall, frame, or duct mounted
Unit weight (kg)	105
Input voltage	220-240V/50Hz/1PH
Ionizer/collector output voltage	12kV/6kV
Product power (w)	70
Number of cells	3
Airflow (CMH)	12,000 (7,062 CFM)
Pressure drop (Pa)	≤65
Flange size (mm)	1,420 x 534
Controls	Power switch with an indicator light
Pre-filter	3 x (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

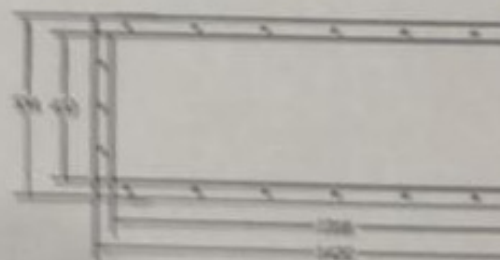
FRONT VIEW



TOP VIEW



DISCHARGE END



INTAKE END

