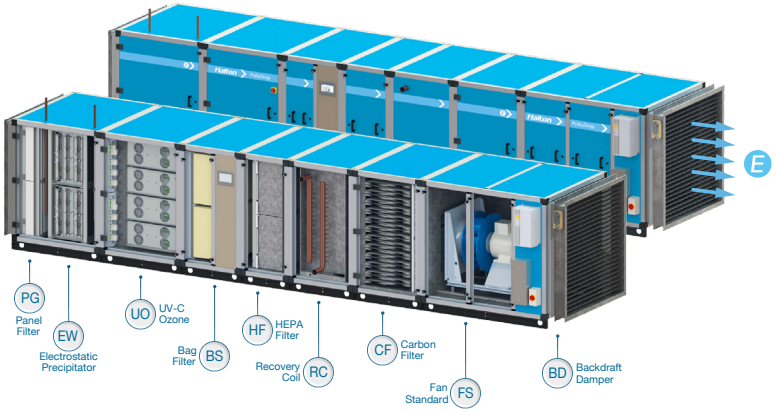
PST - POLLUSTOP

Exhaust Air treatment unit

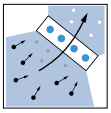


Overview:

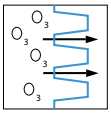
Halton Pollustop is specially designed for commercial kitchens operating in sensitive urban locations. Pollustop Air Purification Units are tailored to each project's needs to allow horizontal and low-level discharge of exhaust ductwork with reduced separation distances. The Pollustop's control system continuously monitors the condition of the filters & fan, regulates the system for optimum ongoing performance and communicates to operation personnel when maintenance is required.

Features:

- **Efficient:** Multiple stages of progressive filtration provides extremely high fractional efficiency to allow horizontal & low-level discharge of exhaust ductwork with reduced separation distances.
- **Controlled:** The Controller continuously monitors the system and prevents exhaust operation if the filters are not in place and adjusts the fan speed as the filters load up to maintain exhaust airflow and ongoing contaminant removal. The Pollustop comes with a user interface Touch Screen for easy visual inspection of the system status and it alerts operations & maintenance personnel when the system requires service attention.
- **Clean:** Designed to work with Capture Ray™ UV technology whether integrated into hoods, ceilings or in the PolluStop unit itself. UV-C lamps create UV radiation that degenerates fatty compounds on surfaces and it generates Ozone that reacts with fatty vapours passing through the exhaust system.
- **Odour Removal:** UV-C technology is the most effective way to neutralize cooking vapours and their associated odours. UV-C lamps chemically decompose grease vapours and reduce associated cooking odours to a level allowing low level discharge of exhaust ductwork with reduced separation distances.
- **Safe:** NFX activated carbon filters in the final stage of the Pollustop capture surplus ozone produced by the UV-C lamps (when the cooking appliances are not generating maximum emissions) to prevent undue discharged into sensitive environments.
- **Quiet:** Acoustic insulation built into the unit's double-skin panels adsorbs and diffuses system noise. Pollustops designed with the exhaust fan included use a balanced centrifugal plug fan housed within the insulated unit.
- **Easy:** The modular configuration allows it to be adapted to fit most plant rooms. The unit can also be installed vertically or located externally with weather proof additions.

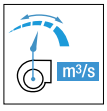


Capture Ray™ technology
Neutralises grease vapours and particles

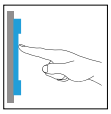


NFX active carbon filter
Controls ozone emissions

Filter monitoring
Constant control of the filters load



Fan monitoring Control Platform
Fan speed control (constant airflow)

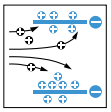


Halton Touch Screen
Unique and intuitive LCD user interface for all systems

Balance Control
Adjusts the supply & Exhaust

Optional Combinations:

M.A.R.V.E.L.
Extend airflow reduction to up to 64%



Electrostatique Precipitator
Removal of smoke particles

HEPA Filtration
Removal of smoke particles

Typical Specification Text:

Kitchen Exhaust Air treatment unit designed to comply with the discharge requirements of AS1668.2 with fractional efficiency to allow low level discharge at reduced separation from openings and inlets. If the kitchen exhaust air may contain smoke, H-11 grade HEPA filters must be included in the unit to prevent undue discharge of contaminants. UV-C and Ozone generation must be included into the exhaust hoods or added as a UV module to the Pollustop unit. NFX grade granulated carbon filters must be included in the unit to provide the required exhaust airflow at the static pressure of the system. The unit must have controls to continuously monitor the system and prevent exhaust operation if filters are not in place and to adjust the fan speed as the filters load up to maintain exhaust airflow and ongoing satisfactory contaminant removal. The unit must have acoustically insulated panels and be modular in design to be configured for the available space. (If the Unit is to be installed externally, weatherproof cover structures must be provided).

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