

Pollustop

Advanced Air Purification Technologies

60/POLLUSTOP/250/0106/EN



Pollustop is a standard range of modules designed, primarily, to be incorporated into commercial kitchen ventilation systems where the control of airborne pollutants at the discharge point is a requirement.

There are 7 standard units ranging in duty from 0.9 m³/s to 6.3 m³/s.

The individual modules, for each size of unit, are as follows:

Panel & Bag Filter Module	(PBM 01 to 07)
HEPA Filter Module	(HM 01 to 07)
Activated Carbon Filter Module	(ACM 01 to 07)

Optional modules are:

UV-C Module	(UVM / x lamps)
Extract Fan Module	(EFM 01 to 07)
Access Module	(AM 01 to 07)

The Pollustop range was conceived, initially, to compliment our Reactocell UV-C Kitchen canopies / ventilated ceilings.

It is now widely understood that certain ultraviolet lamps, when incorporated within the exhaust plenum of a kitchen extract canopy, will remove airborne grease that is not removed by the primary canopy grease filters.

It is also the case that, by increasing the UV lampage to a carefully-selected level, airborne cooking odours will be so minimal that it can negate the need to discharge the vitiated air at high level in the building. [Always subject to EHO prior-approval]

The Panel / Bag and HEPA modules combine to reduce airborne contaminants [ie. smoke] to <0.3 microns [UV-C will not remove smoke].

The Activated Carbon module is simply there to absorb surplus ozone [O₃] produced by the 185nm UV-C lamps in the kitchen canopies at times when the cooking operation is not running at maximum load.

General Construction

Each section would be manufactured using a Penta-Post extruded aluminium section with a matt black finish. Infill panels and access doors would be of a double skin construction and finish flush with the inside and outside of the unit. The outer skin would be 0.7mm thick EGP Leathergrain Platisol-coated finish steel with a yellow finish. The inner skin would be 20g galvanised steel. Sandwiched between the outer and inner skins would be Rockwool RW3 slab (orange label) mineral fibre with a density of 65Kg / m³.

Each access panel shall be hinged on one side, with budget locks securing the panel to the frame, and on the opposite side, black handles.

Each section shall be joined to the next using unit connectors with M8 HSS set screws and nuts.

Each section shall be supplied with a 100 x 50 x 3 aluminium channel base.

Panel Filters (to remove large grease particles)

Disposable pleated panel type, grade EU4, 100mm deep.

Bag Filters (to remove small grease particles)

Disposable microfibre glassfibre type, grade EU6, 559mm long pockets.

HEPA Filters (to remove smoke to <0.3 microns)

Disposable metal cased type, grade EU11, 305mm deep.

Activated Carbon Filters (to remove ozone to <0.06 ppm)

Rechargeable cells with NFX grade carbon granules retained within high impact multi compartment injection moulded castings. 1 no. cell is constructed with clear panels such that the carbon granules can be seen which will change colour when due for change.

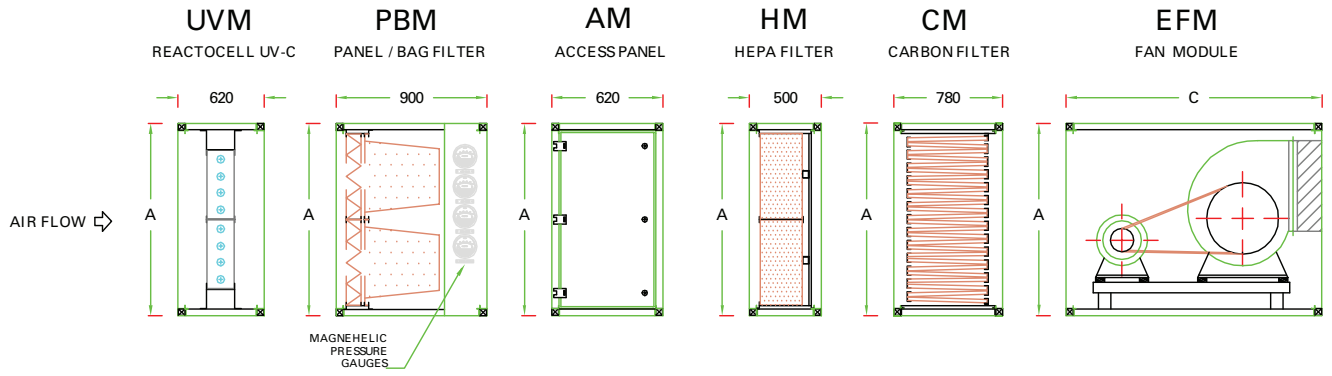
Magnehelic Gauges

Mounted on the side of the panel / bag filter section, these gauges indicate clean and dirty filter conditions for each set of filters. These would normally be linked to a model F control panel for remote filter indication.

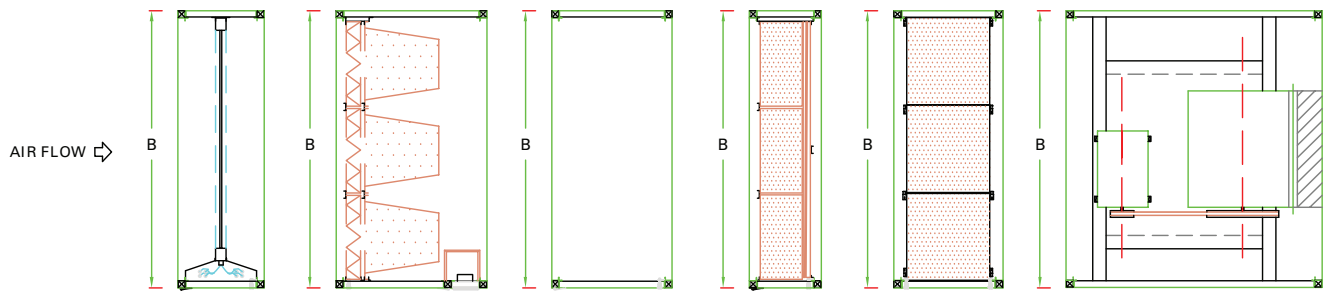
Optional Extras

- Reactocell UV-C section
- Fan section
- Access section
- Acoustic insulation
- Weatherproofing for external installation
- Fire-rated modules
- Control panels
 - model F
 - model FUV-xx
 - model FA-xx
 - model FUVA-xx
- Remote filter indication
- Remote filter indication plus Reactocell UV-C controls
- Remote filter indication plus Fan control
- Remote filter indication plus Reactocell UV-C controls plus Fan control

Elevation



Plan



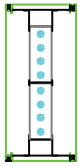
SELECTION CHART

MODEL	DUTY	A mm	B mm	C mm	UVM (Kg)	PBM (Kg)	AM (Kg)	HM (Kg)	CM (Kg)	EFM (Kg)
PS 01	0,9	700	680	1270	58	78	40	64	158	201
PS 02	1,8	700	1280	1270	77	106	53	77	256	270
PS 03	2,7	1000	1280	1400	90	123	58	155	362	365
PS 04	3,6	1340	1320	1525	119	133	69	162	473	395
PS 05	4,5	1340	1630	1650	127	152	83	228	544	473
PS 06	5,4	1340	1930	1650	145	163	90	236	653	561
PS 07	6,3	1640	1930	2025	153	185	98	316	710	620

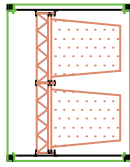
FILTER DATA

TYPE	GRADE	PD(Pa)
40 % panel filter	EU4	100
95% bag filter	EU6	150
99% hepa filter	EU11	280
99% carbon filter	NFX	125

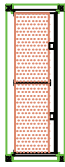
Modules



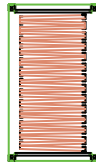
UVM
UV-C MODULE



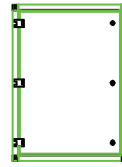
PBM
PANELS & BAGS
MODULE



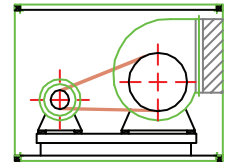
HM
HEPA MODULE



ACM
ACTIVATED CARBON
MODULE



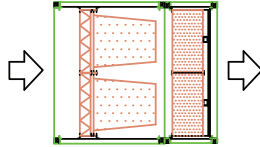
AM
ACCESSMODULE



EFM
EXTRACT FAN MODULE

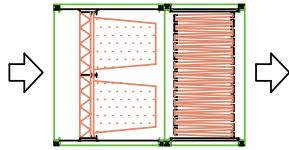
Typical Pollustop configurations

SMOKE
REMOVAL



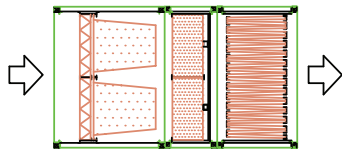
PANELS / BAGS / HEPAS

SURPLUS OZONE
REMOVAL



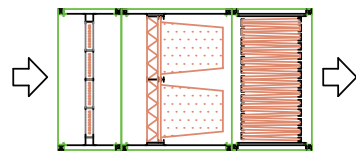
PANELS / BAGS / CARBONS

SMOKE &
OZONE REMOVAL



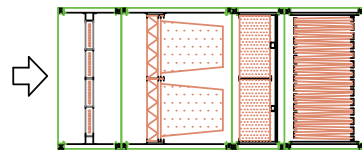
PANELS / BAGS / HEPAS / CARBONS

GREASE, ODOUR &
SURPLUS OZONE
REMOVAL

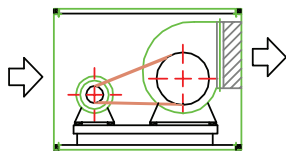


UVC / PANELS / BAGS / CARBONS

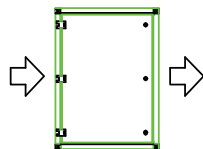
GREASE, ODOUR,
SMOKE &
SURPLUS OZONE
REMOVAL



UVC / PANELS / BAGS / HEPAS / CARBONS



FAN MODULE
(available for all above options)



ACCESSMODULE
(available for all above options)

The company has a policy of continuous product development, therefore we reserve the right to modify

design and specifications without notice. Pollustop is a registered trademark of Halton Vent Master Ltd.