

# FFVAC disposable activated carbon filters

Model FFVAC Activated Carbon filters are used in conjunction with ventilation and air conditioning systems for the removal of undesirable gases and vapors (odours etc.) from the air stream by a process called “adsorption”.

FFVAC filters are manufactured using high activity carbons for use in general air treatment applications, including commercial kitchens and industrial installations. The activated carbon used in FFVAC filters is manufactured from specific grades of coconut shell, which produces high quality carbon that can meet the demands of general air treatment.

Compounds and odours which are adsorbed with standard carbon include; acetic acid, adhesives, animal odours, asphalt fumes, antiseptics, bathroom smells, body odour, cheese, cigarette smoke odour, diesel fumes, detergents, fish odours, fuel, hospital odours, kitchen odours, methyl ethylene ketone, ozone, paint odours, perfumes and varnish fumes. (For a more complete list of compounds contact Filterfit.)

A range of impregnated carbons, designed for removal of specific fumes, are also available to suit application.

FFVAC carbon filters come complete with a standard galvanised steel holding frame for new installations. The filters are manufactured from light gauge aluminium and incorporate a 25 mm header frame on the front. The entire unit is disposable.

FFVAC carbon filters are installed by permanently fixing the permanent mounting frame into the ductwork ensuring that there is sufficient support for the filters weight (see specifications). The carbon filters fit into the holding frames with the main body of the filter



protruding out the back of the holding frame.

By fixing mounting frames together, any number of filters can be installed to make up a filter bank to handle the required air quantity, however supports will be required to support the weight of the carbon filters.

The activated carbon filters are not designed to remove particulate, conventional particulate and/or grease filters should be installed on the dirty air side of the carbon filters to prevent dust or grease from blinding the carbon filter which will severely effect its performance.

The activated carbon used in the FTAC carbon filters will adsorb large amounts of odours before its efficiency decreases. When efficiency of the carbon decreases, the complete carbon filter is to be replaced.

When replacing carbon filters, it must be ensured that the same the replacement carbon is utilised as was originally installed, so as to maintain the desired performance.

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## Performance data:

Specifications	FFVAC663	FFVAC633
Outer frame dimension (mm)	595 x 595 x 292	595 x 290 x 292
Rated capacity	944 l/sec	565 l/sec
Clean resistance	70 Pa	100 Pa
Weight of carbon	12.5 kg	6 kg
Total weight	18.5 kg	10 kg
Maximum operating temperature	52 <sup>C</sup>	52 <sup>C</sup>

Note: Sizes are standard sizes - custom sizes are available on request

## Performance data for Envirocarb 208AC activated carbon:

CTC adsorption (% w/w)	60 - 70
Surface area (m <sup>2</sup> g <sup>-1</sup> )	1150 - 1350
Bulk density (g cm <sup>-3</sup> )	0.47 - 0.51
Loose-filled density (g cm <sup>-3</sup> )	0.44-0.48
Moisture content (% w/w)	< 5
Hardness %	95 - 99
PH	9 - 11