Activated Carbon Panels

There are a myriad of applications for carbon filters where the air volume is such that a single carbon panel will fulfil the design parameters.

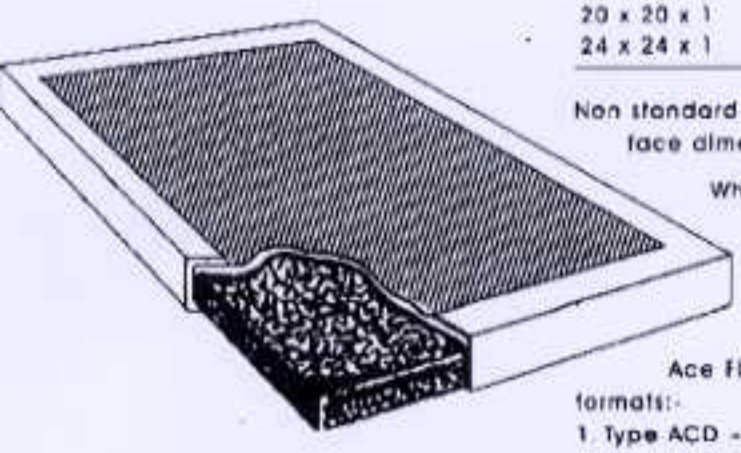
Ace Filtration activated carbon panels, are manufactured from either 203c or 207c carbon granules, which are chemically bonded to form uniform 'biscuits'. The 'biscuits' produced have a cloth covering, which makes them clean to handle, and the uniform panel structure ensures an even air resistance across the face. One advantage of this construction when compared to 'loose fill', is that there is no possibility of carbon packing down to form by-pass channels at the top of the panel.

The carbon panels are normally fitted with an aluminium frame. Other options are galvanised or stainless steel.

Standard sizes are shown in the table below:-

Individual Aluminium Framed Panels

Nominal size inches	Actual size mm	vol m^3/s @ 0.1 sec. contact time
12 x 12 x 1	302 x 302 x 22	0.02
15 x 15 x 1	379 x 379 x 22	0.03
18 x 18 x 1	454 x 454 x 22	0.04
20 x 20 x 1	505 x 505 x 22	0.05
24 x 24 x 1	606 x 606 x 22	0.07



Non standard panels can be made to any reasonable face dimensions and thickness.

Where a carbon panel does not handle sufficient air volume, then carbon filters which incorporate several panels in a multiple deep 'Vee' formation could provide the solution.

Ace Filtration manufactures these in two general formats:-

1. Type ACD - Activated Carbon Disposable Filter.
2. Type ACR - Activated Carbon filter with Replaceable Panels.

Details are provided on separate data sheets.