

Activated Carbon Filters - Panels Odour and Gas Removal – Bonded Panels / Loose Fill Panels

Applications

The disposable Activated Carbon Filter Panel, can be sized and used in a wide variety of odour reduction applications.

Multiple Carbon Panel Filters are often used in V formations enabling sufficient contact times with air to offer high levels of gas and odour removal from the air stream.

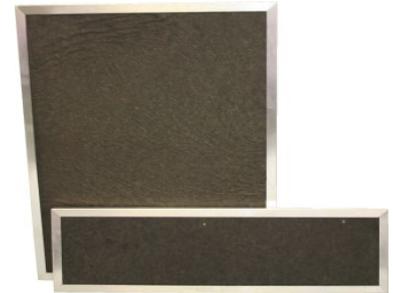
Description

Bonded Panels

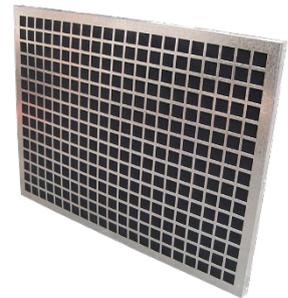
Activated Carbon Panel Filters are generally manufactured using the bonding process to provide a rigid panel which is often called a “Biscuit”. The bonded carbon biscuit can be framed in a metal channel so that it can be easily slid into channel holding frames mounted into ductwork or filter housings. The panel is finished in a “fabric facia” which minimises the dusting from the panel.

Loose Fill Panels

Activated Carbon Panel Filters can also be produced using a loose fill technique, which can offer an improved rate of absorbency. Despite the improved rate of absorbency, the Activated Carbon Panels capacity will remain the same. The panels are designed to minimise the risk of bypass due to settlement, and for this reason their installation should be designed to be horizontal. Filter frames are galvanised steel construction and as standard use a 55% CTC activated carbon.



Bonded Panel



Loose Fill Panel

Technical

Nominal thickness	Actual thickness	Pressure drop	Face velocity m/s
25mm	22mm	45 Pa	0.22 (43fpm)
22mm	19mm	40 Pa	0.19 (37fpm)

Maximum Operating Temperature: 40 Deg C

Maximum Operating Humidity: 80% RH

Actual Framed Dimensions (mm)	Grade 20 - Bonded	Grade 50 - Bonded
445x445x22	1610210	1610510
594x292x22	1610211	1610511
594x594x22	1610212	1610512
NON-STANDARD	(Max 47mm Thickness)	Part No. 1610999

Holding Frames and Cases

Holding frames and casings for Activated Carbon Panel Filters are available singularly or in multiples and can be manufactured to suit non-standard sizes and special applications. See Catalogue Section 8 (code AC8) for full information.



AHU Style Side Withdrawal Filter Housing (1908)



Fully Welded Side Withdrawal Filter Housing (1840)