



Nuclear Grade Radial Flow Plug-In HEPA Inserts



M.C Air Filtration manufactures a range of Radial Flow Plug-In HEPA Inserts for compliance with the stringent requirements of Atomic Energy Standard Specification AESS 30/95100 and all other United Kingdom local nuclear licensed site engineering standards.

Plug-In HEPA filter inserts are available in a range of seven standard capacities and manufactured in three standard forms:

Type I Low temperature combustible inserts. Manufactured with vacuum formed polypropylene end caps with nylon inserts, perforated plastic retaining grids and a polyurethane bonding material.

Type I Low temperature non-combustible inserts. Manufactured from a range of plastic & steel components and using a polyurethane bond.

Type II High temperature non-combustible inserts. Manufactured with coated steel or stainless steel end caps & expanded steel retaining grids and a temperature resistant cement bonding material.

Filter Medium:

All derivatives utilize the same non-flammable, water repellent, micro fine glass paper conforming with the requirements of AESS 30/93400. The media pack is formed into a cylindrical mini-pleat element with glass thread spacers.

Seal:

Internal silicone rubber lip-seal 3 mm thick mechanically fitted to the open end cap.

Technical Specification	
Range	75, 160, 280, 470 & 950 l/sec
Integral Efficiency	99.99% in accordance with BS3928
Clean Resistance	≤300 Pascal
Final Resistance	≤1000 Pascal
Burst Pressure	≥3000 Pascal
Max Working Temp*	Type I : 70°C Type II : 250°C
Max Working R.H.	80%

*Under test conditions:

Type I filter inserts will maintain their integral efficiency when subjected to 120° C for up to 120 minutes.

Type II filter inserts will maintain an integral efficiency of >98% when subjected to 500° C for up to ten minutes.

Quality Control:

All M.C. Air Filtration HEPA filters are manufactured and tested under strict quality controlled conditions in accordance with our BS EN ISO 9001:2008 accreditation.

Each filter is individually factory tested and allocated with a unique serial number for future traceability.

Alternative sizes, specifications and materials of construction may be available; please contact our Sales office to discuss your specific requirements.

We reserve the right to change product specification without notice

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