

Radial Flow HEPA Filter Inserts

For Nuclear Applications

Porvair Filtration Group manufactures fully compliant radial flow filter inserts for nuclear ventilation applications, qualified to and validated for, all UK nuclear HVAC standards.

These HEPA-rated glass fibre pleated filter inserts offer fine levels of filtration efficiency and low differential pressure.

Porvair Filtration Group also manufacture a range of sintered metal fibre, powder and mesh filters for use throughout the nuclear industry; from power generation, through to fuel manufacture, including waste treatment and storage, decommissioning and decontamination activities.

We have the expertise and capability to design filtration equipment to meet the most arduous of conditions, including high temperature, aggressive chemicals and high solids environments.



Features and Benefits

- **High efficiency**
Efficiency greater than 99.99% at 950 l/s when tested to BS EN ISO 14644-3:2005 Cleanrooms and Associated Controlled Environments – Part 3: Test methods.
- **Temperature and chemical resistance**
To Type 2 HEPA Insert standards.

Applications

- **Ventilation**
Radioactive and/or toxic atmospheric air or inert gas handling systems.



Specifications

Construction

The element filter pack features integrally pleated ribbons to separate and support the pleats. This minimises differential pressure and maximises dirt holding capacity performance.

Materials of Manufacture

End caps, guards, handle: stainless steel 1.4307 or 1.4404 to BS EN 10088-2
Filter media: glass fibre
Internal lip seal: silicone rubber

Dimensions

Outside diameter: 518mm (20.4")
Inside diameter: 340mm (13.4")
Length: 624mm (24.6")

Operating Temperature

Maximum continuous: 80°C (176°F)

Tested in an oven at 500°C (932°F) for 10 minutes to ensure that materials do not contribute to combustion.

Note: this does not imply that filters are suitable for operation at the test temperature.

Quality Assurance

Quality is at the heart of every stage of our operation and a fundamental part of our culture. We are ISO9001 approved at all of our manufacturing facilities and hold many other accreditations for the various industries we serve.

Product Innovation, Manufacturing and Testing

We understand that product development involves building multidisciplinary teams, not only within the company, but often in partnership with our customers, improving project efficiency and ensuring complete customer satisfaction. This continuous development of products and materials is vital, to enable us to offer new and better solutions to applications. **Porvair** has implemented various methodologies to drive out waste and process variance across the company to achieve the ultimate goal of zero defects.

We have a dedicated team of scientists, engineers, production and quality professionals working towards the best possible filtration solutions for our customers. We have a fully equipped test house and laboratory, and our experienced design engineers use the latest AutoCAD® technology, with 3D solid modelling, integrated with a finite element analysis system to give full structural assurance capability.



Porvair Filtration Group Ltd.

Concorde Close
Segensworth, Fareham
Hampshire, PO15 5RT
Tel: +44 (0)1489 864330
Email: info@porvairfiltration.com

Porvair Filtration Group Inc.

301 Business Lane
Ashland, Virginia 23005, USA
Tel: +1 804 550 1600
Email: infoUS@porvairfiltration.com

Porvair Filtration Group

Chengdong Area
Square Industrial Park, North District
Xiaonan Economic Development Zone
Xiaogan, 432000, China
Tel: +86 25 5758 1600
Sales: +86 151 0101 2510
+86 189 3686 6188
Email: infoCN@porvairfiltration.com

Porvair Filtration India PVT. Ltd.

Gangotri Glacier Annex, Kavesar
Opposite Vijay Nagari, Off Ghodbunder Road
Thane (W), 400607, India
Tel: +91 22 25 976464 / +91 22 25 976465
Email: infoIN@porvairfiltration.com

Porvair is a registered trademark of Porvair plc.

© Copyright 2018. Porvair Filtration Group Ltd. All rights reserved.

While every effort has been made to ensure the accuracy of this document, due to continuous product development, the data contained is subject to constant revision and Porvair Filtration Group Ltd. reserves the right to change, alter or modify its contents.