

# CHEMICARB®

High performance “in-line” activated carbon filters for the removal of a wide spectrum of toxic gases and vapours.



EMCEL Chemicarb filters have been designed and developed to meet the need for a high efficiency, “in-line” filter for use in applications which involve or produce highly toxic gases and vapours.

Chemicarb filters comprise a fully welded and leak tested stainless steel cylindrical casing containing a special honeycomb matrix, which creates a swirling gas path within the filter. This feature maximises dwell time for maximum contaminant removal and long filter life. The matrix is filled with activated carbon selected from various grades, including special impregnated types to remove specific gas and vapour contaminants.

Particularly suitable for laboratory and small-scale chemical process applications, the Chemicarb filter has been successfully used for the removal of mercury vapour, arsine, phosphine, hydrogen sulphide, acid gases and a wide range of organic contaminants including metallorganic vapours. Contaminant removal efficiencies in excess of 99.9999% have been recorded.

**May be used horizontally or vertically**

**Choice of inlet/outlet connections**

**Patented “swirling gas path” design to maximise contaminant removal**

**Stainless steel fully sealed filter housing to ensure gas containment**

**Variety of carbon grades available**

## Technical Information for standard units

**Dimensions:** 203 dia x 228 mm long, other sizes on request

**Filter Housing:** Fully welded stainless steel. Pressure tested to 1.0 BarG

**Inlet/Outlet:** Stainless steel tubes to specified diameter

**Maximum airflow:** 20 litres/minute

**Operating limits:** Temperature 50°C, Humidity 90% RH

Chemicarb activated carbon filters can be designed and manufactured in any quantity to suit customer specification. The EMCEL Technical Sales Team will be pleased to advise on individual applications for Chemicarb or any other air filtration requirements.

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