DIVIDED BED CARBON FILTERS

High Efficiency Filters for Critical Applications

Photo: Standard Divided Bed Activated Carbon Filter (610 x 610 x 292 mm) rated at 0.283 m^3/sec.

The Emcel Divided Bed Activated Carbon Filter is designed to provide high performance adsorption of toxic and radioactive contaminants.

The filter incorporates deep bed carbon cells manufactured to the same unique patented design construction as EMCEL standard activated carbon filters. The tortuous path followed by the contaminated air through the individual cells, ensures toxic removal efficiency significantly higher than is provided by standard activated carbon filters.

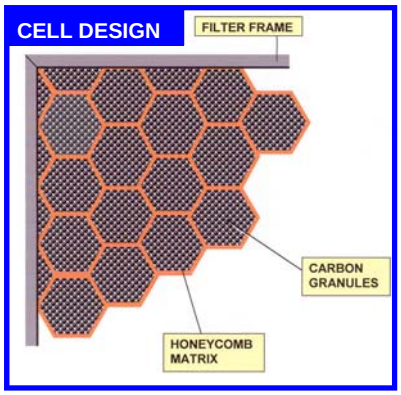
EMCEL Divided Bed Filters are the result of continuous research, development and collaboration with the Nuclear and Chemical industries.

When employing EMCEL Divided Bed Carbon Filters, it is not uncommon for decontamination factors in excess of 50,000 to be experienced in the removal of Radioactive Isotopes

In addition EMCEL manufactures Triple Bed Carbon filters with Housings in a variety of materials

Applications:

- Nuclear Power Generation
- Isotope Production
- Laboratories / Research Units
- Oil and Petro-Chemical
- Pharmaceutical Plants
- Fume Cupboards



The honeycomb matrix at the heart of the standard EMCEL Carbon Filter Cell creates a strong, rigid and robust holding structure for granular carbon, but also prevents the problems of carbon granule settlement, pinholing and carbon dust liberation.

The complex honeycomb provides a diffuse airflow across the face of the filter cell ensuring that the carbon contained in the cell is fully utilised for contaminant removal, maximising efficiency and filter life.

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ISO 9001

Certificate No. FM 24138