

# MAXICARB®

Activated Carbon Filter Units for the removal of chemical vapours, odorous and toxic gases.



Activated carbon filtration has for many years been recognised as a highly successful method of controlling dangerous and noxious gaseous contaminants. Maxicarb filters have been developed to remove and control a wide range of chemical vapours, odorous and toxic gases from airstreams where critical, high efficiency filtration and heavy duty performance is necessary.

## Applications inc:

- Airports
- Breweries
- Chemical Plants
- Cosmetics
- Factories
- Hospitals
- Laboratories
- Research Units
- Tanneries
- Warehouses



Emcel Maxicarb filters have been specified and supplied worldwide in many diverse industrial environments but are particularly suitable for applications in Laboratories, Chemical Production Plants, Industrial Complexes and Research Establishments where the intake or discharge of noxious gases are required to be controlled.

The filter unit construction allows for front, top, bottom or side, filter cell withdrawal options and all units may be supplied with a cleanable or disposable particle prefilter. Standard sizes are available but special can be manufactured to suit application.

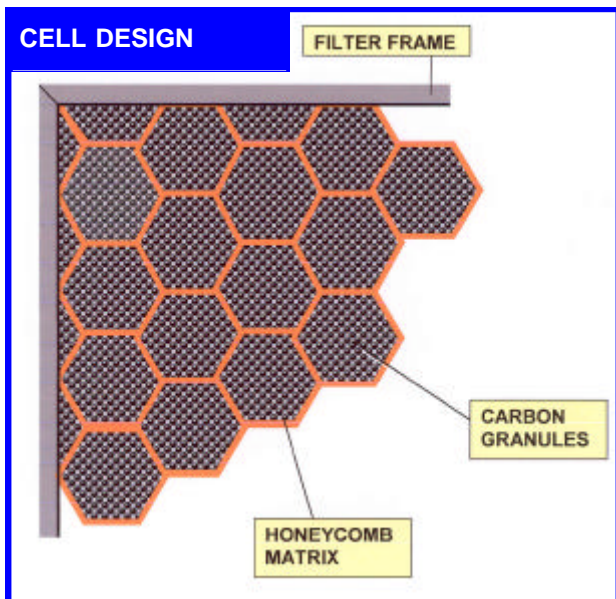
The high quality activated carbon grades used in Maxicarb filters are capable of adsorbing a wide cross section of gas and chemical contaminants. The complex EMCEL patented cell construction enables the Maxicarb to capture a broader spectrum of gases and chemical vapours than conventional carbon filters.

The EMCEL Maxicarb construction comprises variable numbers of activated carbon cells arranged in "V" formation, giving high carbon weight/air volume loading for efficient performance and long service life.

The outer casings are manufactured in powder coated mild steel as standard, or in stainless steel, polypropylene or GRP for use in corrosive environments.



**Emcel Maxicarb units are designed specifically for efficient filtration within a heavy duty environment**



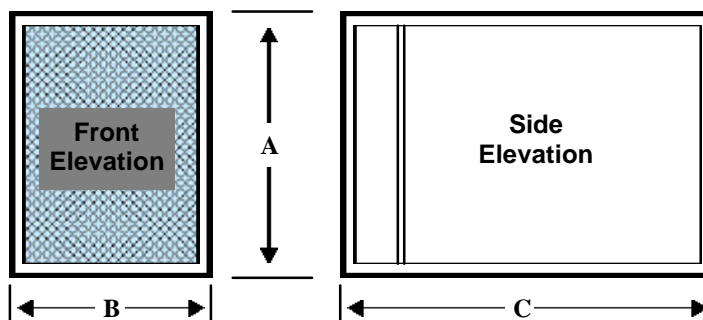
The unique, EMCEL patented honeycomb filter cell design prevents the formation of voids and gaps caused by settlement of the carbon granules in the airstream. Also, special impregnated carbon grades may be used which enable the filter to exhibit the chemisorption properties necessary to achieve the enhanced removal of specific gases.

As leaders in the field of activated carbon filtration, the EMCEL Technical Sales Team is available to discuss and advise on the suitability of Maxicarb filters for individual environment conditions, odours and airborne chemical contaminants.

The EMCEL Carbon Life Prediction Service is available to assist in identifying the optimum filter cell replacement point to ensure maximum filtration efficiency coupled with cost-effective replacement.

Maxicarb Reference	Capacity (m <sup>3</sup> /sec)	Dwell Time (Secs)	Dimensions		
			A	B	C
1MXB1	0.25	0.2	355	610	950
1MXB2	0.25	0.3	355	610	950
1MXB3	0.25	0.5	355	610	1150
2MXB1	0.50	0.2	660	610	950
2MXB2	0.50	0.3	660	610	950
2MXB3	0.50	0.5	660	610	1150
3MXB1	0.75	0.2	965	610	950
3MXB2	0.75	0.3	965	610	950
3MXB3	0.75	0.5	965	610	1150
4MXB1	1.00	0.2	1270	610	950
4MXB2	1.00	0.3	1270	610	950
4MXB3	1.00	0.5	1270	610	1150

Standard Maxicarb units provide airflow capacities of 0.25 to 1.0m<sup>3</sup>/sec. Larger airflows are accommodated by assembling multi-banks or complete plenum chambers with channel frames & access doors can be supplied.



Minimum Carbon Weight Loading: 80kg/1.0m<sup>3</sup>/sec. Resistance to airflow: 110 Pa excluding prefilter

The maximum operating conditions for the Maxicarb filter are 50°C and 85% RH. The filter should in no circumstances be subjected to temperatures in excess of 70°C. Care must be taken over the handling and disposal of contaminated filter cells consistent with the gaseous contaminant adsorbed.



Other Emcel products include:

- Replacement Carbon Panels
- Odour Control Filters
- Particle Filters
- HEPA Filters
- Washable/Cleanable Panels
- Special Filters



Certificate No. FM 24138

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