

TANK BREATHER

Activated Carbon Filters for the control of vapour, gas and odour discharges from liquid storage tanks.

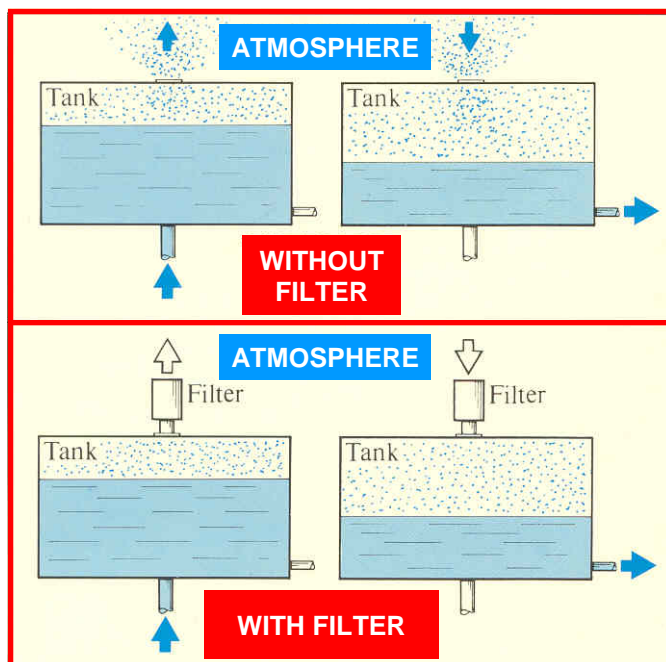


A range of composite activated carbon Tank Breather filters has been developed by EMCEL Filters to control the pollution effects of discharges and are particularly relevant in cases where the displaced air arising from tank filling or temperature effects contains odorous, hazardous or toxic vapour contaminants.

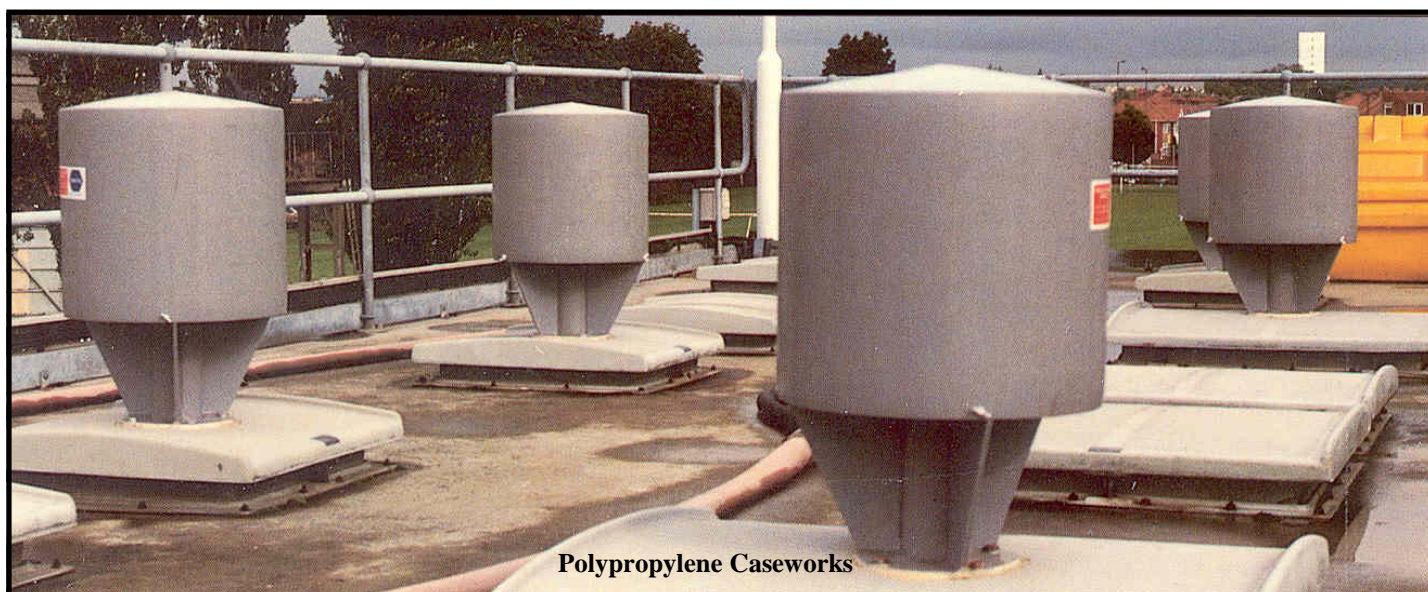


Outer filter casings are manufactured in a wide variety of materials and finishes including weather resistant painted steel, stainless steel, polypropylene and uPVC. A number of filter unit arrangements, flanges and fixings are available to match the wide variety of tank breather and vent outlet configurations that exist. Both vertical and horizontal airflow discharges can be accommodated and, in addition to the standard particle pre-filtration, the EMCEL tank breather filter can be supplied with spark arresters, HEPA filtration and weather cowls if required.

EMCEL Tank Breather filters are manufactured in a standard range of designs and sizes or may be custom built to suit specific filtration or dimensional requirements.



The movement of air occurs when liquid filling or emptying of storage or processing tanks takes place. This leads to the discharge or ingress of vapour or odour contaminated air into the environment or tank through the Tank Breather or vent outlet.



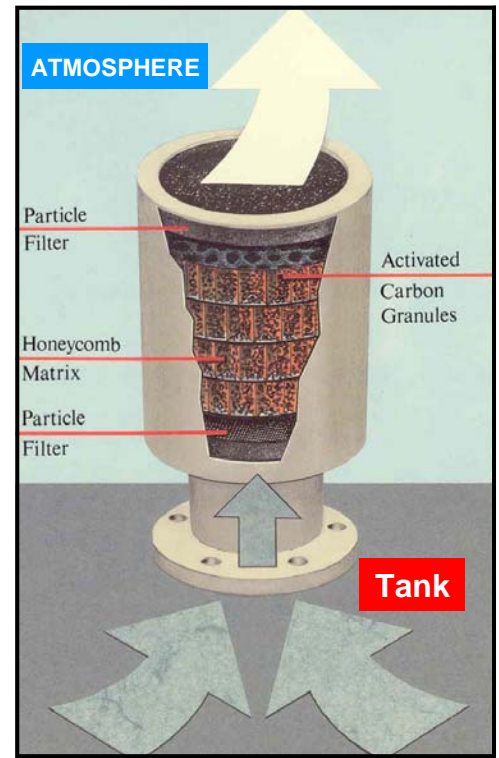
Polypropylene Caseworks

The EMCEL Tank Breather Filter unit comprises of a replaceable carbon cartridge or carbon panel manufactured using the EMCEL patented honeycomb matrix design. This honeycomb structure, which is filled with selected activated carbon granules, provides a tortuous air path through the filter labyrinth which promotes maximum contact between contaminant and carbon for high removal efficiency and extended service life.

The basic grade of activated carbon granules selected for use in EMCEL Tank Breather filters is a high quality coconut shell which possesses a high adsorption capacity for a wide variety of chemical and gaseous contaminants.

EMCEL are also specialists in the use of chemically impregnated carbons which are utilised for the enhanced removal of certain specific contaminants such as hydrogen sulphide, mercaptans, acid gases, formaldehyde, ammonia and amines.

The EMCEL Technical Sales Team will be pleased to discuss and advise on the selection of carbon grade and filter unit design to meet specific contaminants and individual applications.



Typical replaceable activated carbon panel used within various Tank Breather Filter units

Cylindrical EMCEL replaceable activated carbon filter cartridge



Applications:

Liquid storage tanks in a wide cross section of industries including:

- Chemical Production
- Laboratories
- Manufacturing
- Oil and Petro-Chemical
- Pharmaceutical Plants
- Research Units
- Sewerage Installations
- Septic Tanks
- Water Treatment



Other Emcel products include:

- ◆ Activated Carbon Units
- ◆ Odour Control Filters
- ◆ Particle Filters
- ◆ HEPA Filters
- ◆ Washable/Cleanable Panels
- ◆ Special Filters



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