

FiltaCarb™ 75 series canister vapour phase activated carbon filtration systems



FiltaCarb™ FC75x1

About FiltaCarb™ carbon filter technology

FiltaCarb™ vapour phase activated carbon systems provide an efficient and economical means to reduce V.O.C. (Volatile Organic Compound) concentrations, corrosive gases including Hydrogen Sulphide (H₂S) and toxic vapours to control odours. They provide immediate adsorption upon contact with the gases. All of the systems have a specified contact time to ensure they meet optimum performance throughout the life of the media. The filter vessels are filled with a specific granular activated carbon, which is suitable for a variety of odour abatement applications.

FiltaCarb™ 75 series vapour carbon canisters, each containing 75kg of activated carbon, are ideal for low-flow air purification for industrial and municipal applications. These budget adsorption filters are specifically designed for wastewater and acid gas emissions but they are also suitable for a range of industrial gases.

The Bioaction FiltaCarb™ filter series provides total flexibility in designing a system to suit the target flow requirements and emission reduction outcomes. They are particularly well suited to:

- Sewer vents, wet stations and weir boxes at chemical and municipal wastewater treatment plants.
- Sewer pump stations
- Sewer wet wells
- Inlet works
- Storage Tanks
- Other acid emission sources

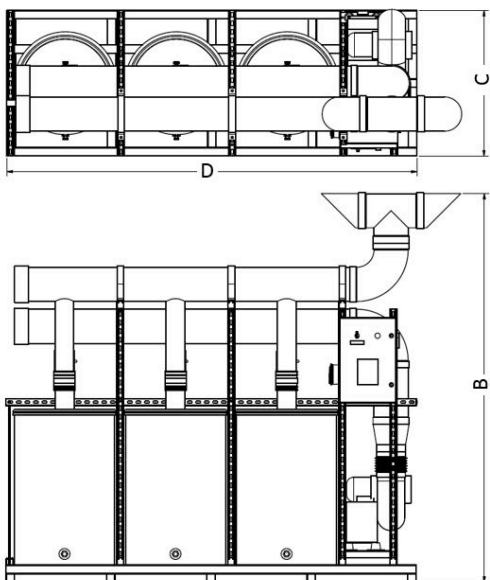
Benefits of FiltaCarb™ 75 series filters:

- More than 99.5% of H₂S removed
- Effective treatment to remove a variety of organic contaminants and odour-causing emissions
- Continuous treatment at varying flow rates and concentrations
- Low pressure drops across the filter bed
- Simple installation and operation
- Flexibility to be installed in series or multiple units in parallel
- Low cost per unit makes carbon treatment economical
- Designed for the rigors of wastewater treatment
- Rapid drum replacement when carbon is depleted



FiltaCarb™ FC75x3

Sustainable Modular Filtration Systems



Functional Description	The FiltaCarb™ drum canister filter is a cost effective and efficient filter system that requires little maintenance. The system is designed for easy and simple filter changeover. The canisters are used in a range of configurations in skid mounted systems or specialised designs. The system is a single-stage treatment using carbon adsorption technology. Hazardous gases are extracted from the source using an extraction/blower fan that then vents the untreated gases through the filter media. The untreated gases accumulate in the lower plenum of the filter before being evenly diffused through the media of the filter bed where contaminants are physically adsorbed. A specific activated carbon media is used to treat the target gases to achieve more than 99% removal of source gases.
Construction	FiltaCarb™ drum canister filter is designed to reduce logistic and installation costs. The system is preloaded with media and is factory tested prior to dispatch. The FiltaCarb™ filter is constructed from a UV corrosion resistant PVC (Optional; epoxy lined mild steel, stainless steel, or High Density Polyethylene (H.D.P.E.)).
Adsorptive Media	Utilises a specifically designed activated carbon for use in odour control systems where the primary cause of odour is as a result of the presence of mercaptans, Hydrogen Sulphide (H ₂ S), and volatile organic compounds (V.O.C.'s). Customised media blends and mixtures can be supplied to meet any needs that fall outside the capacities of our standard activated carbon materials.
Optional Items	Standby fan with PLC upgrade. Stainless steel fans. High level systems operational sensors. Continuous H ₂ S monitoring. Stainless Steel Drums. Epoxy Lined High Density Polyethylene (H.D.P.E.).

75 Series	Model	Capacity		Empty Bed Residence Time (EBRT) (sec)	Vessel Outside Dia. (m)	Skid Size		System Heights			Media Volume (m ³)	Media Depth (m)	System Mass				Duct Size (mm) ID	Pressure Drops (Pa)	Fan Details		
		L / s	m ³ / hr.			Width C (m)	Length D (m)	Vessel (m)	Misc. (Skid, Duct)	Total B (m)			GAC Media (kg)	Drum (kg)	Skid (kg)	Misc. (kg)			Total (kg)	Model	Motor Size (kW)
FiltaCarb™ Package Systems	FC75x1	75	270	1.8	0.59	0.85	1.20	1.06	0.68	1.74	0.13	0.52	75	13	20	100	208	100	821	Seat 15	0.37
	FC75x2	150	540	1.8	0.59	0.85	1.80	1.06	1.15	2.21	0.27	0.52	150	26	29	100	305	154	821	Seat 20	1.10
	FC75x3	225	810	1.8	0.59	0.85	2.40	1.06	1.21	2.27	0.40	0.52	225	38	39	100	102	154	821	Seat 20	1.10
FiltaCarb™ Drum Cartridges	FC75	75	270	1.8	0.59	N/A	N/A	1.06	N/A	1.06	0.13	0.52	75	13	N/A	N/A	88	100	821	N/A	N/A
	FC75SS	75	270	1.8	0.59	N/A	N/A	1.06	N/A	1.06	0.13	0.52	75	25	N/A	N/A	100	100	821	N/A	N/A



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