

Sustainable Modular Filtration Systems



FiltaVent™ passive ground mount cartridge odour filtration system.



FiltaVent™ FV30 – single cartridge



FiltaVent™ FV60 – dual cartridge



FiltaVent™ FV120 – quad cartridge



FiltaVent™ CART30 – 30 L/s cartridge

About FiltaVent™ carbon filter technology

FiltaVent™ passive vent filters are cost effective and efficient ground mounted filter systems with replaceable cartridges. Each one is a self-breathable passive filter with low static pressure that can be used to solve a range of odour issues on sewage pumping stations, vent stacks and pressure relief valves. Depending on the flow capacity requirements, there is a FiltaVent™ model configuration that has been designed to suit installation on top of air valves, sewer manholes, pump stations or small sewage treatment plants and also to replace old corroded vent stacks.

Replacement FiltaVent™ cartridge filters:

All FiltaVent™ passive vent filters are supplied with replaceable cartridges that can easily be changed by operators, when the carbon is exhausted. At only 23 kg, the cartridge can be easily removed and safely replaced manually. The media is a performance activated carbon for the combined removal of gases such as Hydrogen Sulphide (H₂S), Dimethyl Sulphide, Mercaptans and volatile organic compounds (V.O.C.'s).

The FiltaVent™ range offers multi-cartridge systems to meet larger target flows. The units are robust and the independent plenum base ensures air is evenly distributed throughout the media bed. This optimises the capacity of the activated carbon filter media, therefore maximising its performance.

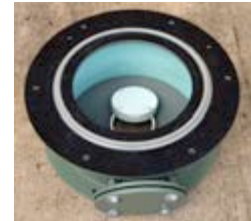
Bioaction FiltaVent™ filter systems are designed, engineered and made locally to suit Australia's wide and often harsh range of operational conditions. FiltaVent™ filters have a high chemical and UV resistance to provide significant design life expectation and are suitable for all climatic conditions.

Benefits of FiltaVent™ passive vent filters:

- More than 99.5% of odours removed
- Low static pressure
- Range of multi-cartridge options
- Easy installation
- Replaceable cartridges
- Insect and vermin proof
- Can connect to external vent duct
- Vandal resistant



FiltaVent™ FV30 system with cartridge loaded.

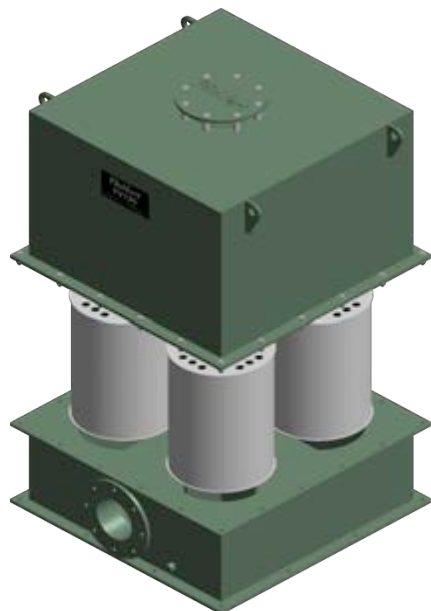


Plenum base of FiltaVent™ system showing duct connection options, either ducted into the wet well or via side duct.



FiltaVent™ FV120 system with 4 x CART30 cartridges loaded.





FiltaVent™ FV120
– quad cartridge system

Functional Description	FiltaVent™ passive ground mount filters are cost effective and efficient filter systems with very low maintenance costs. The system is designed for easy and simple filter changeover and replacement. The system is a single-stage treatment using carbon adsorption technology. Hazardous gases are pushed 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 99.5% removal of source gases. FiltaVent™ filters are designed to reduce logistic and installation costs. The system comes with 1 - 4 canisters, depending on the model ordered, all are factory tested prior to dispatch.
Construction	FiltaVent™ passive ground mount filters are constructed from U.V. corrosion resistant P.V.C. (Optional High Density Polyethylene (H.D.P.E.)). All duct and pipe penetrations are constructed from U.V. resistant P.V.C.. The lid has a gasket seal and is secured to the vessel base and bolted securely flange to flange. More detailed specifications per model are available on request.
Adsorptive Media	A custom blend of Acticarb EA1000 granular vapour activated carbon and Acticarb EA1000K pelletised impregnated activated carbon is used and specifically designed 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	Inlet and outlet adaptor flange kit Extraction fan – Seat 15 – 0.37kW (Details on flow specifications available on request)

Series	Model	Capacity		Empty Bed Residence Time (EBRT) (sec)	Vessel Outside Diameter (m)	System Heights (m)	Media Volume (m ³)	Media Depth (m)	System Mass			Duct Size (mm) ID	Static Pressure Vessel (Pa)
		L / s	m ³ / hr.						GAC Media (kg)	Vessel (kg)	Total (kg)		
FiltaVent™	FV20	20	72	1	0.5	0.64	0.02	0.28	11	24	35	50	109
	FV30	30	108	1	0.5	0.88	0.03	0.42	17	29	46	100	214
	FV60	60	216	1	0.89 x 0.48	0.88	0.06	0.42	34	44	78	100	214
	FV120	120	432	1	0.89 x 0.89	0.94	0.12	0.42	68	75	143	154	214
FiltaVent™ Replacement Cartridges	CART20	20	72	1	0.32	0.39	0.02	0.28	11	4	15	N/A	109
	CART30	30	108	1	0.32	0.55	0.03	0.42	17	5	22	N/A	214