

FiltaVent™ two-way ground mount cartridge odour filtration system.



The optional galvanised vent stack mount pictured above has been attached to the FiltaVent™ system which has then been sealed at the top to enable the filtered air to exhaust through the existing vent stack which has been repositioned to the vent stack mount.

About FiltaVent™ carbon filter technology

FiltaVent™ two way 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. Applications for this system is where there is a need to allow a high flow of inlet air on demand from the system. The annulus filter design lowers the static pressure across the filter bed without compromising surface contact and residence time. The FiltaVent™ two way filter can act as or connect to a vent stack to create air inflow while treating odorous outflow.

Depending on the flow capacity requirements there is a range of FiltaVent™ two way model configurations that has been designed to suit installation on top of air valves, sewer manholes, pump stations and small sewerage treatment plants and also to replace old corroded vent stacks.

Replacement FiltaVent™ cartridge filters:

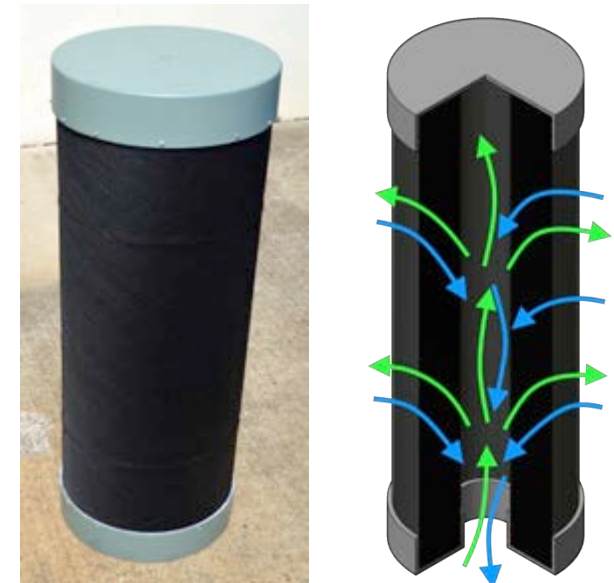
All FiltaVent™ passive vent filters are supplied with replaceable cartridges that can easily be changed by operators, when the carbon is exhausted. At only 33 kg, the two way annulus cartridge can be easily removed and safely replaced manually. The media is a performance activated carbon for the combined removal of gases such as Hydrogen Sulphide (H_2S), 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.

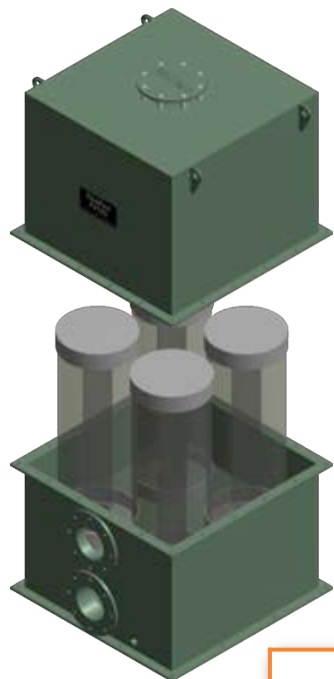
Bioaction FiltaVent™ filter systems are designed, engineered and made locally to suit Australia's wide and often harsh range of operational conditions. FiltaVent™ filters have a high chemical and UV resistance to provide significant design life expectation and are suitable for all climatic conditions

Benefits of FiltaVent™ two-way passive vent filters:

- More than 99.5% of odours removed
- Can connect to external vent duct / stack
- Allows air inflow into sewer system
- Low static pressure
- Range of multi-cartridge options
- Easy installation
- Replaceable cartridges
- Insect and vermin proof
- Vandal resistant



FiltaVent™ 2WCART40 – 40 L/s annulus cartridge



FiltaVent FV160P
4 cartridge system

Functional Description	FiltaVent™ two-way 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. In addition to the treated air flowing out through the filter, this system also enables unrestricted flow of air back through the intake pipe to enable pressure reduction in the network. 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™ two-way 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 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 – Vent stack mount Extraction fan – Seat 15 – 0.37kW (Details on flow specifications available on request)

2 Way Series	Model	Capacity		Empty Bed Residence Time (EBRT)	Vessel Outside Diameter	System Heights	Media Volume	Media Depth	System Mass			Duct Size	Static Pressure
		L / s	m ³ / hr						GAC Media (kg)	Vessel (kg)	Total (kg)		
FiltaVent™	FV40P	40	144	1	0.5	1.14	0.06	0.10	33	24	57	50	40
	FV80P	80	288	1	0.89 x 0.48	1.38	0.12	0.10	66	44	110	100	40
	FV160P	160	576	1	0.89 x 0.89	1.44	0.24	0.10	132	75	207	154	40
FiltaVent™ Replacement Cartridges	2WCART40	40	144	1	0.32	0.92	0.06	0.10	33	N/A	33	N/A	40