MAX FLOW	120 LPS	
	432 m^3/h	
FUNCTIONAL DESCRIPTION	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.	
PRIMARY ABSORPTIVE MEDIA	Acticarb EA1000K is a pelletised impregnated activated carbon specifically designed for use in odour control systems where the primary cause of odour is as a result the presence of mercaptans, particularly hydrogen sulphide (H2S), and volatile organic compounds.	
	SPECIFICATIONS	
	Media Volume	0.09 m^3
	Media Blend	70%
	Media Mass	50.4 kg
	Empty Bed Residence Time (EBRT)	1 sec
	Pressure Drop	165 Pa
	TYPICAL PROPERTIES	
	Total ash content (max.)	15%
	Moisture content (max. as packed)	15%
	Hardness (min.)	90%
	Particle size	4 mm
	Surface Area	>1000 m^2/g
	Apparent Density	500-550 kg/m^3
	H2S Adsorption Capacity	0.14 g H_2S/cc GAC
	Iodine Number	> 950
SECONDARY ABSORPTIVE MEDIA	Acticarb EA1000 is a micro and meso porous pelletised activated carbon that is specifically designed for the treatment of air streams containing organic pollutants.	
	SPECIFICATIONS	
	Media Volume	0.04 m^3
	Media Blend	30%
	Media Mass	21.6 kg
	Empty Bed Residence Time (EBRT)	1 sec
	Pressure Drop	70 Pa
	TYPICAL PROPERTIES	
	Total ash content (max.)	8%
	Moisture content (max. as packed)	8%
	Hardness (min.)	95%
	Particle size	4 mm
	Surface Area	>1000 m^2/g
	Apparent Density	450-500 kg/m^3
	Iodine Number	> 1000
FILTER VESSEL	The FiltaVent™ passive vent filter is designed to reduce logistic and installation costs. The system is preloaded with media and is factory tested prior to installation.	
	DIMENSIONS	
	Width (overall) – 890 mm	
	Depth (overall) – 890 mm	
	Height (overall) – 940 mm	
	Diameter (cartridge) – 320 mm	
	Height (cartridge) – 540 mm	
	CONSTRUCTION	
	Filter vessels are constructed from a corrosion resistant uPVC (Optional HDPE availiable).	
	MATERIAL SPECIFICATION (uPVC)	
	Specific Gravity	0.95 g/m^2
	Max Continuous Operating Temp.	80°C
	Max Short Term Operating Temp	100 °C
	Tensile Strength	22 MPa
	Hardness	63 Rockwell M
	Co-efficient of thermal expansion	150-230 m/(m.k) x 10≈6
	Dielectric Strength	45 KV/mm
	Surface Sensitivity	$>10^{14}$ OHMS
	PENETRATIONS	
	All duct and pipe penetrations are constructed from uPVC	

	VESSEL AND LID CONNECTION	
	The lid is secured to the base via a gasket seal then bolted securely flange to flange.	
DUCT AND PIPE SIZE	Minimum Duct	@ 8 m/s – 138 mm
	Minimum Duct	@ 10 m/s – 123 mm
	Duct Size Used	150 mm ID
OVERALL WEIGHT	143 kg	

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