

McBerns Pty Ltd ZC300 ODOUR FILTER



McBERNS ZC300 ODOUR FILTER

The **ZC300 Odour Filter** is designed to extract and treat gaseous emissions in wastewater collection systems and small treatment plants. It is suitable for use on sewer mains, manholes, pump stations, packaged treatment systems etc. The filter absorbs foul odours and bio-gases including hydrogen sulphide (H₂S). This cleverly designed Filter is an active process that reacts with the H₂S & other foul odours, neutralizing them by changing their molecular structure and releasing only clean air back into the environment.

The Filter comprises 3 compartments: the emissions enter the inlet compartment at the bottom via a 100mm inlet pipe. The gases then flow into the middle compartment which contains impregnated activated carbon where the initial treatment occurs. A further scrubbing takes place when the treated emissions exit through the top compartment via four 300mm McBerns media cartridges. These cartridges contain a zeolite based media. It is safe and easy to install and is easy and convenient to maintain, monitor and recharge. The ZC300 is compact and aesthetically designed to blend into the surrounding environment and is a fast and economical solution to odours.

The ZC300 is designed to be used at larger sites where there is a high volume air flow and difficult odour problems.

While our Filters are extremely effective it is essential that the pump station site is well sealed. All openings that will allow gases to escape should be sealed, we recommend replacement of old corroded covers or if suitable, seal openings with a good quality sealing tape. McBerns can supply custom made Sealed Safety Lids and Sealing Tapes to correct even the most troublesome sites.

**Your crews may miss the critical periods,
the McBerns ZC300 Odour Filters don't.
They're always on the job!**

www.mcbarns.com

ZC300 ODOUR FILTER IS NOT A MASK!

The **McBerns ZC300 Odour Filter** is our heavy duty filter. It is designed to treat wastewater odour emissions. The ZC300 is not just a mask, it actually absorbs and treats the biogases, particularly H₂S.

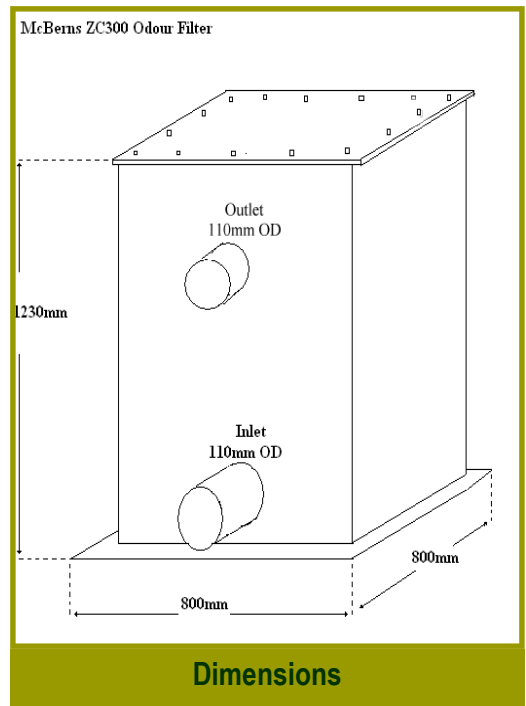
This filter is comprised of 3 compartments:

Lower Chamber: Emissions enter the inlet compartment at the bottom via a 100mm inlet pipe.

Middle Chamber: Initial treatment occurs in the middle compartment which contains impregnated activated carbon

Upper Media Cartridge Chamber: Treated emissions exit through the top compartment via four 300mm media cartridges.

Dimensions: Length 800mm; Breadth 800mm; Height 1230mm; Weight 80kg without media. The unit is fabricated from UVPVC and is painted with polyurethane "mist green" paint.



INSTALLATION

The **ZC300 Filter** is designed to be mounted at ground level. The unit needs to be placed on a solid, level base.

Emission pipe is joined (ensure airtight seal) to the 100mm inlet at the bottom of the main body cabinet. Impregnated Activated Carbon is poured into the lower chamber through the 4 x 150mm holes in the cartridge cylinders, then the 4 x 300mm media cartridges slip into each of the 4 cylinders in the upper media chamber. Once the top cover is fitted and secure your odours will be gone.

REPLACEMENT FILTER MEDIA KIT

The **McBerns ZC300 Odour Filter** is easily and safely recharged. Longevity of the cartridges' effectiveness depends on the amount of H₂S and other bio-gases passing through the filter. When cartridges are no longer effective the filter media will need to be replaced. The complete package is quick & easy to install.

The kit comprises:

4 x 300mm McBerns media cartridge: The media consists mainly of an environmentally friendly natural mineral which is mixed with a small quantity of an oxidising chemical. Cartridges weigh 15kgs each and are packed individually for easier handling.

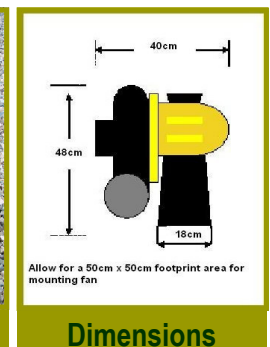
4 x 25kgs bags of Impregnated Activated Carbon: Carbon should be removed by means of a commercial vacuum cleaner or vacuum truck.



EXTRACTION FAN

The Extraction fan is available if required and is a 3/phase "ExE" rated explosion proof motor powering a fully enclosed polypropylene fan.

The fan is of robust construction. A weather cover is also available if required.



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McBerns Pty Ltd

PUMP STATION AND ODOUR MANAGEMENT

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