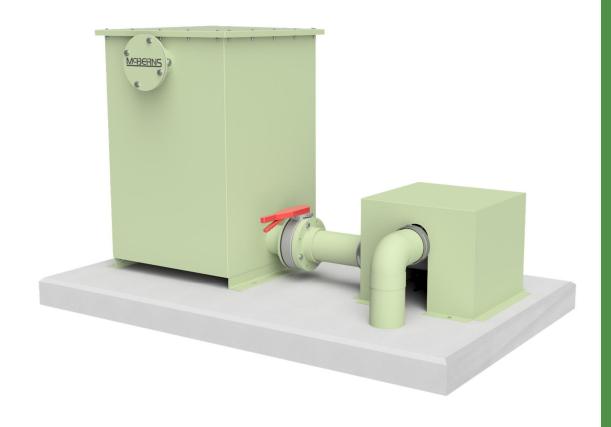


ZC300 FAN AIR FILTRATION SYSTEM INSTALLATION MANUAL



Responsibility: Cathi Southern Iden
Version: 2 Vers

Identification Number:

675

Version Date:

11/02/2020



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1.0 Safety Advice

- Keep out of reach of children
- Refer to Safety Data Sheet (Appendix A).
- Ensure adequate ventilation when removing filter from pack and installing.
- Do not puncture the container or otherwise interfere with the product as this will reduce the effectiveness and/or produce harmful vapours.
- First Aid Information: Poison Information Centre in each State capital city can provide additional assistance for:
 - o Scheduled Poisons: Phone (Australia 13 1126)
 - o Ingestion: Rinse mouth with water. Do NOT induce vomiting. Seek medical assistance.
 - Eyes & Skin: Be careful to avoid contact with contents, or fumes from the filter as they may cause irritation to eyes, skin or breathing passages. If contact occurs wash affected area with plenty of water.
 - Inhalation: Remove victim from exposure. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered.
 - o Seek medical advice if symptoms persist.

2.0 Overview

The (air filtration system) is designed to treat wastewater odour emissions entering the inlet compartment via the DN150 uPVC butterfly valve. The odour emissions are processed in three stages, which comprises of:

- 1. Initial treatment by the Potassium Hydroxide (KOH) Impregnated Activated Carbon.
- 2. Secondary treatment by McBerns Proprietary Bulk Combined Media, and
- 3. Tertiary treatment by McBerns Proprietary Combined Media Cartridges, which is then emitted to atmosphere.

The odour control unit is fabricated from 316 Stainless Steel with the exterior powder coated in 'Pale Eucalypt'. The interior is sprayed with an approved chemical and corrosion protective coating.



3.0 Installation

Note: Failure to comply with installation procedure will result in a void of warranty.

- 1. Confirm position and site layout with local authority ensuring a suitable and level base for the unit.
- 2. Remove lid of filter to access the required kit componentry supplied.
- 3. Install butterfly valve and flange on (filtration unit) inlet using M16 x 140mm 316 Stainless Steel bolts, nuts and washers supplied.
- 4. Connect ventilation pipe from odour source to the extraction fan inlet and connect extraction fan outlet to filtration unit inlet via DN100 DN150 uPVC reducer and DN150 pipe. Ensure piping is installed and sealed as per pipe manufacturer specifications to prevent odour egress. Pipework to fall back to odour source for drainage purposes.
- 5. Secure extraction fan with 4 off M6 316 Stainless Steel DynaBolts supplied.
- 6. A certified and competent electrician to install electrical connection to extraction fan.
- 7. Fit extraction fan cover over extraction fan and secure with M8 316 Stainless Steel DynaBolts supplied.
- 8. Install butterfly valve and flange on (filtration unit) inlet using M16 x 140mm 316 Stainless Steel bolts, nuts and washers supplied.
- 9. Fix filtration unit using the M12 DynaBolts supplied via (filtration unit) mounting feet.
- 10. Load KOH Impregnated Activated Carbon supplied onto the internal bottom shelf, level off and overlay with supplied mesh (6 x 25kg bags).
- 11. Load McBerns Combined Media (Bulk) supplied and level off (4 x 15kg bag).
- 12. Wipe the internal top shelf with a damp cloth where the media cartridges will be seated, to remove any dust or grit which will prevent achieving a sufficient seal around the base of the media cartridges.
- 13. Apply a bead of supplied sealant to the rubber seals located on the internal top shelf; not doing so will prevent a sufficient seal.
- 14. Remove the cartridge from the protective plastic bag.
- 15. Install cartridges on the top shelf within the designated cartridge locations. Cartridges are to be installed "THIS WAY UP ↑"as per instructions on cartridge. Slightly rotate cartridge to seat base to the rubber seal.
- 16. Re-secure top cover using M6 x 50mm 316 Stainless Steel bolts, nuts and washers supplied.
- 17. Install drain using ball valve assembly and fittings supplied, install DN20 uPVC schedule 80 pipework drain assembly connecting from approved drain location to ball valve assembly; ensure adequate fall from unit to drainage source is provided.
- 18. Operate inlet butterfly valve to allow odour emissions to flow through unit and check for leaks with a soapy water solution.
- 19. Set to specified flow rate using butterfly valve.
- 20. If connecting filtration unit to vent pole, remove outlet plate assembly and install DN150 flange and gasket supplied. Connect filtration unit to ventilation pole using DN150 uPVC pipework and connections, with fall back to filtration unit.

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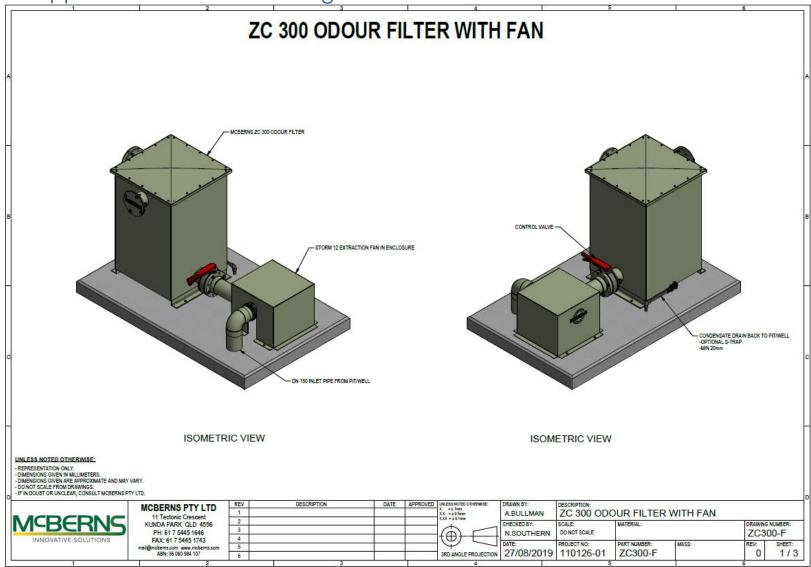
4.0 Bill of Materials

Item	Item No.	Description	Qty.
1	FLANGE150MM	DN150 uPVC Flange	2
2	FGASKET150MM	DN150 EPDM Gasket	1
3	FBOLTM16X70	M16 x 70mm 316 Stainless Steel Bolts	4
4	FM16HEXNUT	M16316 Stainless Steel Nuts	8
5	FWASHERM16X30	M16316 Stainless Steel Washers	16
6	DYNA1275	M12 316 Stainless Steel DynaBolts	4
7	FREDUCEOFF	DN100-DN150 uPVC Reducer	1
8	FTAPDRAIN FELBOWDRAIN FDRAINADAPTOR	Drain Assembly	1
9	F50MESH	Layer Mesh	1
10	FVALVEBUT150	uPVC Butterfly Valve	1
11	ZCBOLTSSM16X140	M16 x 140mm 316 Stainless Steel Bolts	4
12	FCARBONK	Activated Carbon 25kg bags	6
13	FZEOLITE3/7	Combined Media (Bulk) 15kg bags	
14	FC300MCHD	Combined Media (Cartridges) – Heavy Duty	4
15	SCREWM6X50HEX	M6 x 50mm 316 Stainless Steel Bolts	16
16	HEXNUTM6	M6 316 Stainless Steel Nuts	16
17	WASHERM6	M6 316 Stainless Steel Washers	32
18	FSTORM12	Extraction Fan	1
19	WWDBOLT6	M6 316 Stainless Steel DynaBolts	4
20	FSTORM12/10COVER	Extraction Fan Cover	1
21	DYNAM840	M8 316 Stainless Steel DynaBolts	4
23	ZC300-S	Filter Unit Housing	1
24	N/A	ZC Installation Manual	1

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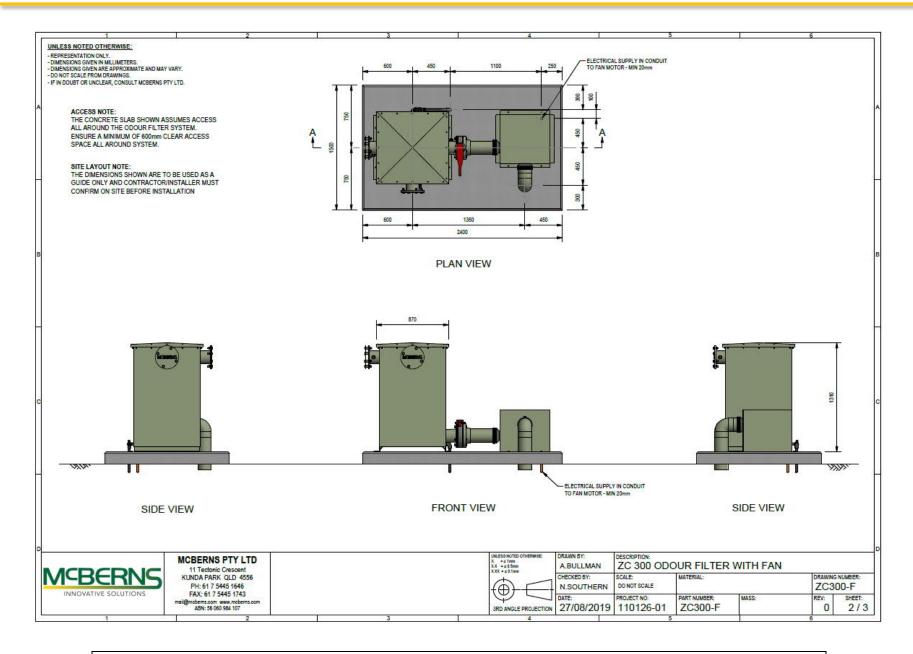


5.0 Appendix A – As Built Drawings



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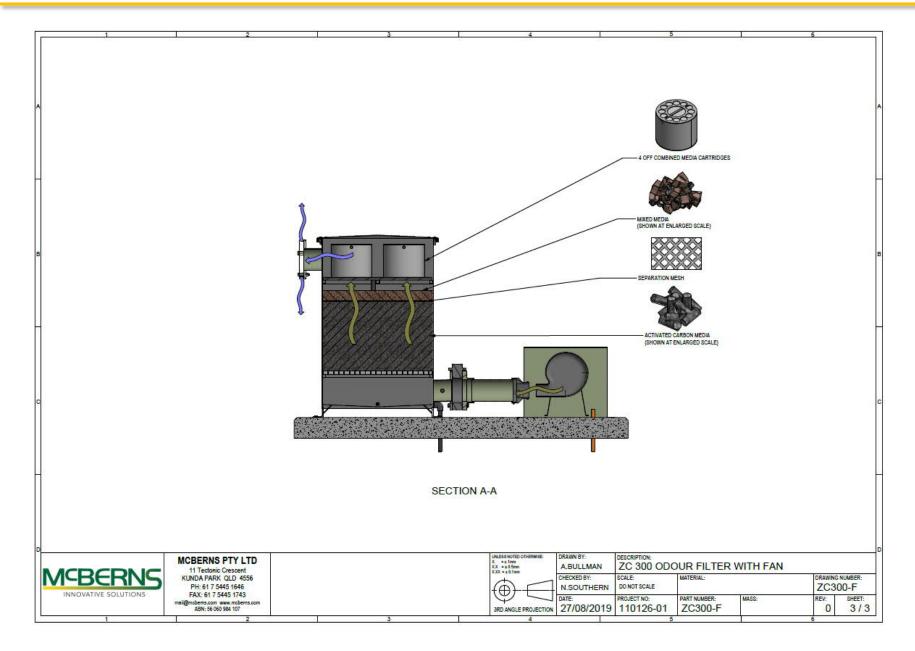




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