



# GM450 AIR FILTRATION UNIT INSTALLATION MANUAL



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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:
  - Scheduled Poisons: Phone (Australia 13 1126)
  - 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.
  - Seek medical advice if symptoms persist.

## 2.0 Overview

The (air filtration system) is designed to treat wastewater odour emissions entering the inlet compartment at the base of the unit. The foul air is treated by McBerns Proprietary Combined Media Cartridges, which is then emitted to atmosphere through the top compartment. The odour control unit is fabricated from uPVC material with the exterior coated in 'Pale Eucalypt'.

## 3.0 Installation

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

### 3.1 Inlet Via Base of Filter Housing

1. Confirm position and site layout with local authority ensuring a suitable and level base for the unit.
2. If required, core drill a 150-250mm diameter hole in the concrete slab connecting to the odour source. Alternatively, if the unit is to be located away from odour source, install uPVC pipe from odour source to filtration unit; ensure uPVC pipe finishes flush with base of filtration unit and fall on pipework back to odour source.
3. Generously cover bottom of the Housing Flange with silicon sealant to ensure no leaks from the base of the unit.
4. Fix the filter housing over the hole using the M8 DynaBolts supplied with chemical anchor points.
5. Connect filtration unit to ventilation pole using DN150 uPVC pipework and connections, with fall back to filtration unit. Please ensure the ventilation pole is suited for the filtration unit. Alternatively, fit the rodent cap supplied to the filtration unit outlet if not connecting to a vent pole.
6. Wipe the rubber seal 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.
7. Apply a bead of the supplied sealant to the top of the internal rubber seal; not doing so will prevent a sufficient seal.
8. Remove the cartridge from the protective plastic bag.
9. Install cartridge on to the internal rubber ring. Cartridges are to be installed "THIS WAY UP ↑" as per instructions on cartridge. Slightly rotate cartridge to seat base to the rubber seal.
10. Install the supplied rubber seal around top edge of 1st cartridge and repeat steps 7 – 10 for the installation of the second cartridge.
11. Install the third cartridge as per step 11.
12. Place supplied cover on top of filter housing and fix in place using the M8 Dome Nuts supplied.
13. Ensure drain is securely fastened and only operated during maintenance.

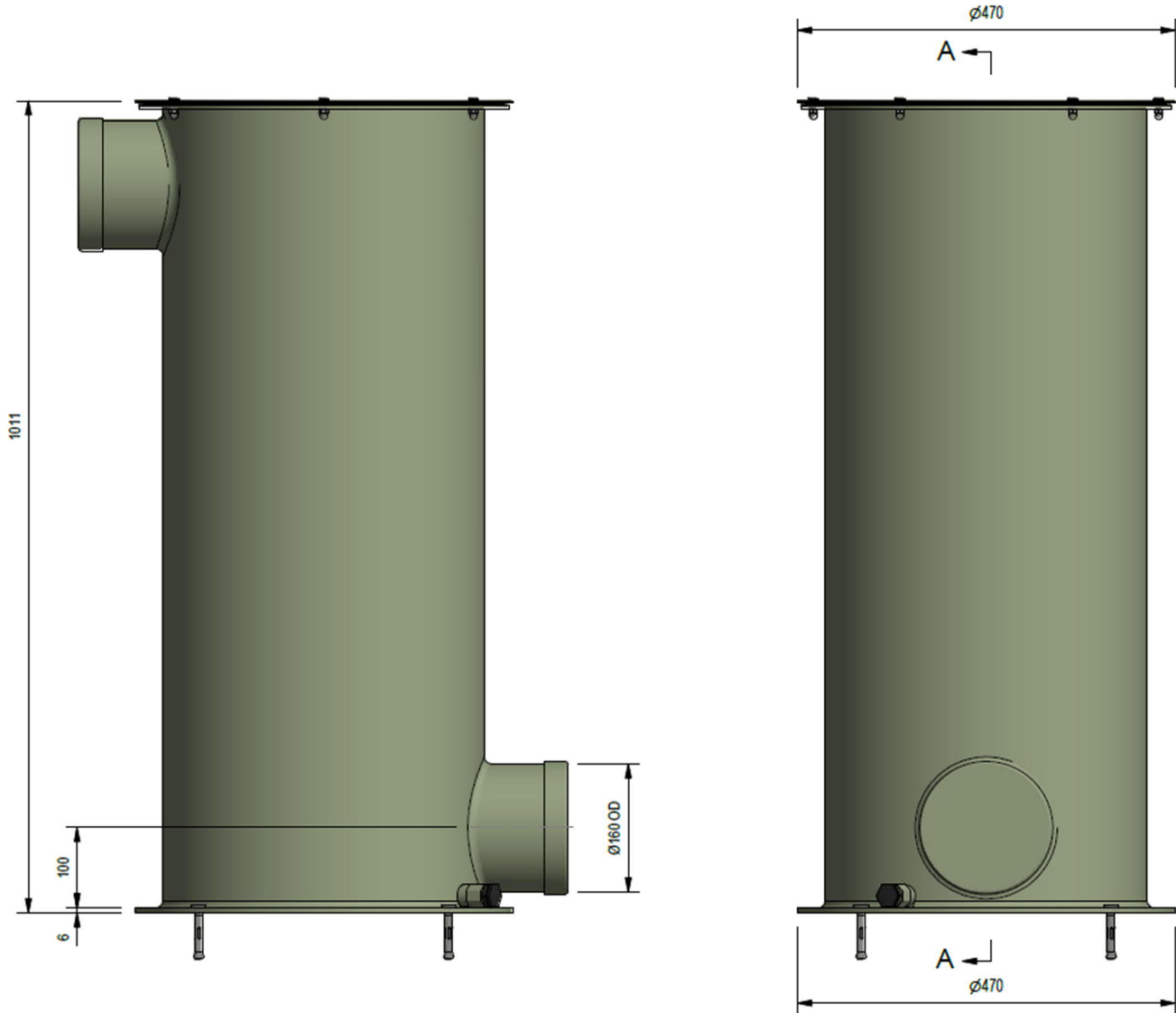
### 3.2 Inlet Via 150mm Pipe

1. Confirm position and site layout with local authority ensuring a suitable and level base for the unit.
2. Connect filtration unit to odour source using DN150 uPVC pipework. 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.
3. Fix the filter housing in place using the M8 DynaBolts supplied with chemical anchor points.
4. Connect filtration unit to ventilation pole using DN150 uPVC pipework and connections, with fall back to filtration unit. Please ensure the ventilation pole is suited for the filtration unit. Alternatively, fit the rodent cap supplied to the filtration unit outlet if not connecting to a vent pole.
5. Wipe the rubber seal 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.
6. Apply a bead of the supplied sealant to the top of the internal rubber seal; not doing so will prevent a sufficient seal.
7. Remove the cartridge from the protective plastic bag.
8. Install cartridge on to the internal rubber ring. Cartridges are to be installed "THIS WAY UP ↑" as per instructions on cartridge. Slightly rotate cartridge to seat base to the rubber seal.
9. Install the supplied rubber seal around top edge of 1st cartridge and repeat steps 6 – 9 for the installation of the second cartridge.
10. Install the third cartridge as per step 10
11. Place supplied cover on top of filter housing and fix in place using the M8 Dome Nuts supplied.
12. Ensure drain is securely fastened and only operated during maintenance.

## 4.0 Bill of Materials

Item	Item No.	Description	Qty.
1	DYNAM840	M8 316 Stainless Steel DynaBolts	4
2	F375RUBBERSEAL	Rubber Seal	3
3	F375MC	Combined Media (Cartridges)	3
4	SCREW1/4X3/4	1/4" x 3/4" Stainless Steel Bolt	6
5	WASHER3/16X3/4	3/16" x 3/4" 316 Stainless Steel Washers	6
6	DOMENUTM8	M8 x 20mm Dome Nuts	6
7	MCB450HSGASSY	Filter Housing Assembly	1
8	FDRAINPLUG	1/2" Drain Plug	1
9	F150PUSHONCAP	DN150 Push On Cap	1
10	F150COUPLING	DN150 Flex Coupling	1
11	N/A	GM Installation Manual	1

## 5.0 Dimensions



## 6.0 Internal Details

