

SPECIFICATION FOR PARSON ODOREATER CC MANHOLE INSERTS

1. SCOPE

- 1.1 Contractor shall furnish PARSON ODOREATER CC MANHOLE INSERTS as called for in the specification.
- 1.2 The PARSON ODOREATER CC MANHOLE INSERT shall effectively reduce or prevent odors from being emitted through manhole covers.
- 1.3 PARSON ODOREATER CC MANHOLE INSERTS shall be manufactured by Parson Environmental Products, Inc., P.O. Box 4474, Reading, PA 19606, 800-356-9023.

2. MATERIAL & DESIGN

- 2.1 The PARSON ODOREATER CC MANHOLE INSERT and related components shall be manufactured from corrosion proof material suitable for atmospheres and conditions commonly found in wastewater collection systems.
- 2.2 The PARSON ODOREATER CC MANHOLE INSERT body shall be manufactured from High Density, high molecular weight Polyethylene Copolymer material that meets ASTM Specification Designation D-1248 Class A, Category 5, Type III. This material shall have superior stress crack resistance, combined with high impact strength. The carbon canister shall be manufactured from PVC and corrosion resistant components.
- 2.3 The PARSON ODOREATER CC MANHOLE INSERT shall be manufactured to dimensions provided by the purchaser to allow easy installation within the manhole frame.
- 2.4 The carbon shall be activated impregnated carbon and be non-hazardous according to the definition for "health hazard" and "physical hazard" provided in the OSHA Hazard Communication Law (29 CFR Part 1910).
- 2.5 The PARSON ODOREATER CC MANHOLE INSERT shall have a minimum impact brittleness temperature of -180°F in accordance with ASTM D 746-70.
- 2.6 Softening temperature shall be 254°F, meeting all requirements of ASTM D 1525-70.
- 2.7 The PARSON ODOREATER CC MANHOLE INSERT shall have a tensile strength of 3800 psi and an elongation factor of 800%, meeting all requirements of ASTM D 638-71A.
- 2.8 The thickness of the PARSON ODOREATER CC MANHOLE INSERT shall be a uniform 1/8".
- 2.9 The carbon canister shall be manufactured from PVC and corrosion resistant components.

3 MEASUREMENT

- 3.1 The PARSON ODOREATER CC MANHOLE INSERT shall be manufactured to fit the manhole frame rim upon which the manhole cover rests. Exact measurements shall be required from the purchaser.
- 3.2 Instructions and measuring diagrams will be made available to the purchaser, to insure a proper fit of the PARSON ODOREATER CC MANHOLE INSERT within the manhole frame.

4 INSTALLATION

- 4.1 Remove the manhole cover and clean the frame rim of all dirt and debris before placing the PARSON ODOREATER CC MANHOLE INSERT upon the rim.
- 4.2 Install the duckbill valve in the hole near the bottom of the insert.
- 4.3 Install one way valve through hole in canister lid by threading stem in first and then pushing down so valve top is flush with canister lid.
- 4.4 Place the PARSON ODOREATER CC MANHOLE INSERT, without the canister, onto the manhole frame rim.
- 4.5 Remove the canister lid and pour the activated carbon into the canister.
- 4.6 Grasp the canister handle and gently place the canister through the hole in the manhole insert.
- 4.7 Replace canister lid.
- 4.8 The manhole cover is replaced as before, and the installation is complete.

5 REMOVAL AND/OR REPLACEMENT

- 5.1 Remove manhole cover.
- 5.2 Remove canister lid from canister body.
- 5.3 Grab stainless steel bucket handle within canister.
- 5.4 Lift canister from insert body. (Carbon may be removed from canister before canister is lifted from insert body)
- 5.5 Remove manhole insert body, if necessary.
- 5.6 Dispose of spent catalytic carbon as non-hazardous waste.
- 5.7 Refill canister with new activated catalytic carbon.
- 5.8 Reinstall canister through hole in the insert.
- 5.9 Replace canister lid.
- 5.10 Replace manhole cover.

6 ACCEPTANCE

- 6.1 Completed installations must meet engineer's approval.