

MANHOLE SEWER VENT ODOR UNIT (MSVOU)

Sewage Manholes



Unisorb
Canada

MODEL NUMBER NOMENCLATURE

Model	Construction	Media
MSVOU	SS	AC

OPTIONS

- + AC - Activated Carbon

The model described above is a Stainless Steel Manhole Sewer Vent Control Unit.

SYSTEM DESCRIPTION

The Unisorb Canada Manhole Sewer Vent Control Unit is a sewer manhole vent odor control system that is completely self-contained. This system provides air purification for small passive odor air streams.

The standard MSVOU air purification system includes the following:

CONSTRUCTION

Standard casing construction is 14-gauge 316L Stainless Steel.

CHEMICAL MEDIA SECTION

This section houses the Unisorb Canada chemical media as selected to suit the specific contaminant control application.

The MSVOU comes complete with media.

Change-out of spent media is quick and easy. Lift the 54-pound canister from the main housing. Remove the lid, which is held in place by quick wing-nuts, dump the spent media out, refill the canister, reattach the lid, and reinstall the canister.



SPECIFICATIONS

1.0 PURPOSE

A Unisorb Canada MSVOU air purification system is to be provided for this application. The system shall be a complete package designed for controlling odors from manholes. The system shall be placed in a manhole.

2.0 DESIGN

- 2.1 The manufacturer shall have a minimum of 5 years of history in design, fabrication, and testing of similar air purification systems. The system shall provide a minimum airflow capacity as outlined in the specification parameters.
- 2.2 The air purification system shall include a chemical media bed.
- 2.3 The system shall be in a passive configuration.
- 2.4 The manufacturer shall guarantee a minimum life expectancy for the system according to the inlet and outlet contaminant levels for this application. Discharge contaminant levels shall not exceed defined parameters at any time before media expiry.

3.0 CONSTRUCTION AND FABRICATION

- 3.1 To produce high quality low distortion welds, the GTAW (TIG) welding process.

4.0 CHEMICAL MEDIA

- 4.1 The chemical media shall be as selected for this application with minimum performance and physical characteristics as defined for the application. Media data sheets, current SDS information and original samples are to be provided by the manufacturer.
- 4.2 The media bed depth, bed volume, and residence time shall meet or exceed the minimum requirements.
- 4.3 Media bed face velocities shall not exceed the specified rate for this application.
- 4.4 Media pressure losses shall not exceed the design limitations.

5.0 PACKAGING & HANDLING

- 5.1 The air purification system shall be capable of preventing any deflection during rigging, handling, transportation, operation, or servicing.