

2050-450

ODOR CONTROL SYSTEMS



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570 MONTROAL RD, RURAL HALL, NC 27045

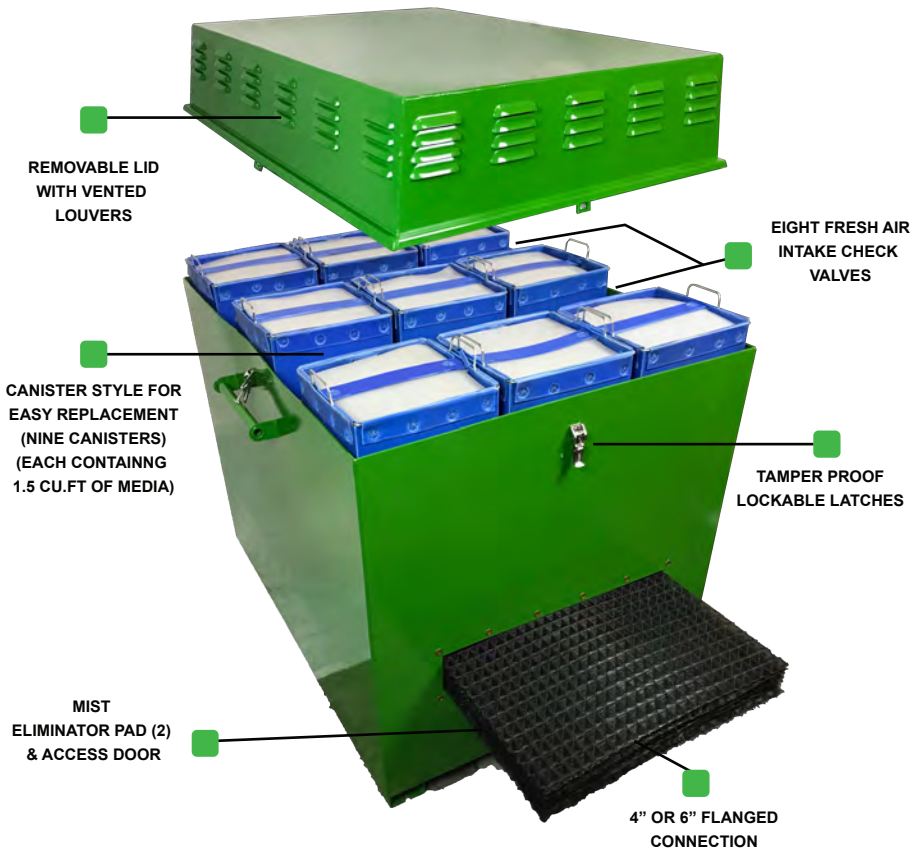
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2050-450

ODOR CONTROL SYSTEMS

The 2050-450-i Odor Control Valve is designed to allow for ventilation and odor control at lift stations, wet wells, vaults containing ARV's and forced mains flowing into gravity fed lines. The valve is constructed from aluminum, and is epoxy coated for protection from the harsh outside environment.

Each valve contains nine (9) canisters containing 1.5 cu.ft. of media for an estimated total of 14 cu.ft. This allows for odor scrubbing where concentrations of H2S gas and accompanying CFM are both very high. A mist eliminator is incorporated into the unit in order to prevent moisture from entering into the media bed.



The 2050-450-i contains (8) check valves that allow for fresh air intake directly in the lines or tank without any restrictions from the unit's media bed. Optional caps may be provided if fresh air intake is not required.

The 2050-450 fits beautifully into residential as well as commercial locations. Each vent has louvered covers to allow for maximum air flow of deodorized air. Every vent is equipped with lockable latches to prevent tampering. It is available with a 4", 6", or 8" outlet. Optional metric flanges are available.



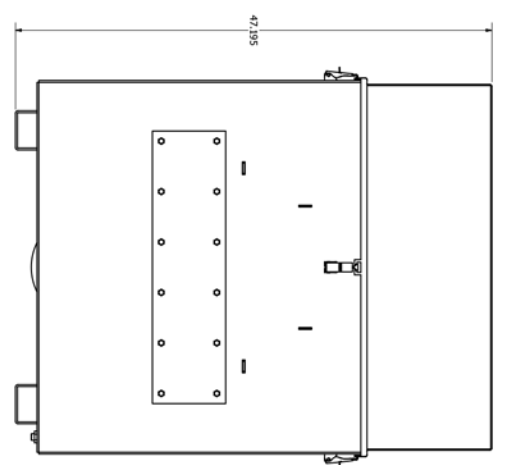
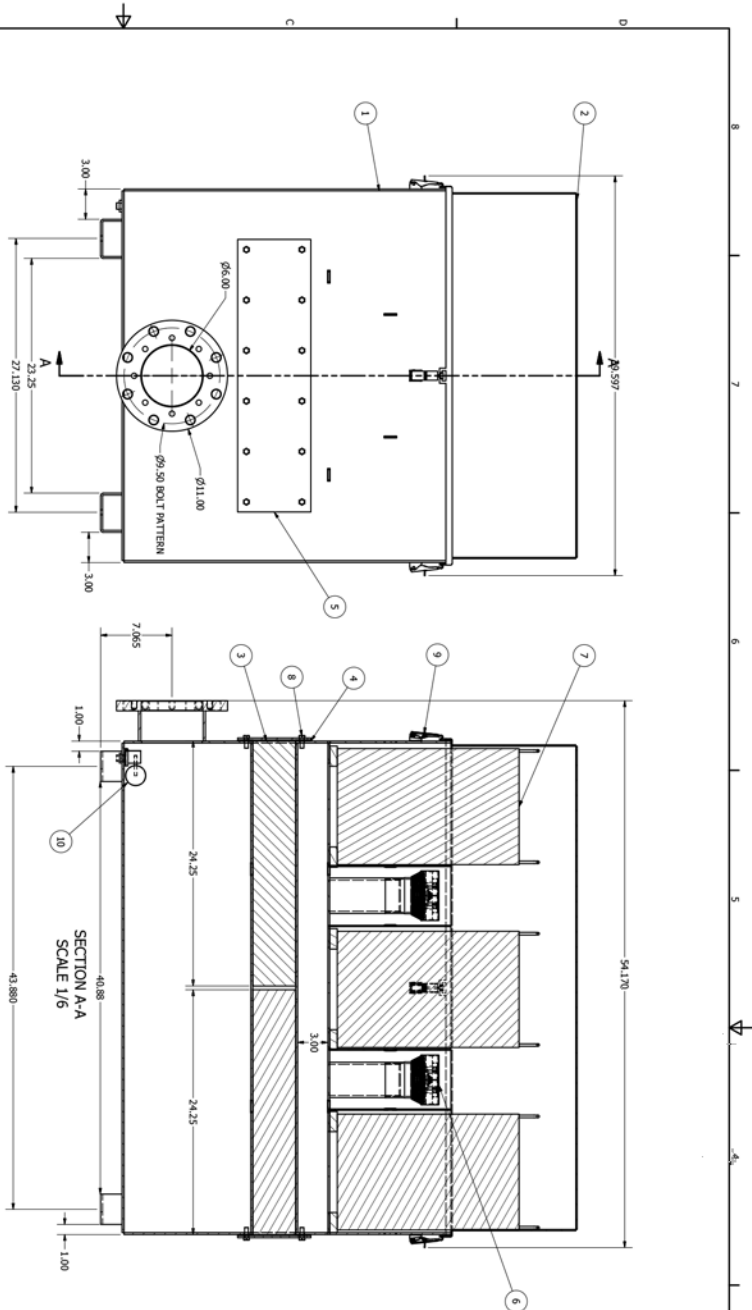
SPECIFICATIONS

4-2050 FAPC-IWS- 450	SIDE ACCESS MOUNT	MEDIA CAPACITY Est. 450 LBS. (204kg)	9 CANISTER	8 INTAKE VALVES	2 MIST PADS	EST CFM. 450-675
6-2050 FAPC-IWS- 450	SIDE ACCESS MOUNT	MEDIA CAPACITY Est. 450 LBS. (204kg)	9 CANISTER	8 INTAKE VALVES	2 MIST PADS	EST CFM. 450-675
8-2050 FAPC-IWS- 450	SIDE ACCESS MOUNT	MEDIA CAPACITY Est. 450 LBS. (204kg)	9 CANISTER	8 INTAKE VALVES	2 MIST PADS	EST CFM. 450-675

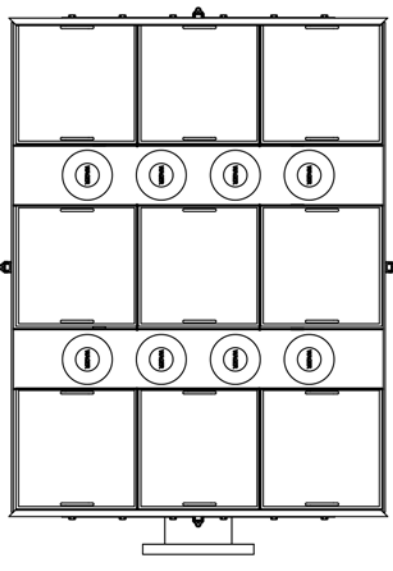


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PERIMETER SHOULD HAVE AT LEAST
1 FOOT OF SPACING ON SIDES
AND 2 FEET OF SPACING FRONT AND BACK



ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	PAU-450-B	SEWER VENT, TWS
2	1	PAU-450-T	TOP COVER
3	2	2590-KCM	WATER SEPARATOR PAD
4	2	PAU-200-G	PAD COVER GASKET
5	2	PAU-200-P	PAD COVER
6	2	PAU-200-S	PAD COVER SEAL PAD
7	9	PMH-200-S0	MEDIA CARTRIDGE
8	24	BOLT-3/8-1	PAD COVER BOLTS
9	4	SV-LATCH	COVER LATCH
10	1	WV-DRAIN-ASSY	BOTTOM DRAIN

DRAWN BY: JACQUELINE A. ROBERT H. WARDEN CO., INC.
 CHECKED BY: JACQUELINE A. ROBERT H. WARDEN CO., INC.
 DATE: 04/11/2011
 TITLE: SIDE ACCESS SEWER VENT, ODOOR CONTROL W/ INTAKE AND WATER SEPARATOR, 450 LBS. MEDIA
 APPROVED BY: [Signature]
 SCALE: 1/4" = 1'-0"
 SHEET NO: 2050/FARC-TWS-450
 SHEET 1 OF 1

2050-450

SPECIFICATIONS

- A.** This specification defines the requirements for a Wager 2050-i-450 Vent Scrubber, manufactured by Wager Company , Rural Hall, NC.
- B.** The 2050FAPC-i-450 consists of dry scrubbing media contained in a fabricated aluminum plate housing. It is powder coated grass green, with a 4", 6", or 8" outlet.
- C.** The 2050-i-450 shall contain 450 lbs. of dry-scrubbing media that is engineered for the removal of H₂S gas. The media is contained in (9) corrugated plastic containers that are 11" x 18" in size.
- D.** The airflow shall be designed for passive applications. The configuration shall be arranged so that the contaminated air shall flow from the bottom flange and be forced upward through the media bed and discharged through the ventilated openings.
- E.** The 2050FAPC-i-450 contains EIGHT air admittance valves. They intake directly into the lines without any restrictions from the unit's media bed. This assures continued airflow during pumping sequences needed with the air release valves, and also with a vacuum sewer system where outside fresh air is required for system operation.
- F.** All components of the 2050FAPC-i-450 shall include:
1. A fabricated aluminum plate body, powder coated grass green.
 2. 450 lbs. of odor scrubbing media engineered in pellet form.
 3. 4", 6", or 8" flanged connection – Optional metric flanges available.
 4. Tamper proof lockable hook and security latches.
 5. Disposable media corrugated plastic inserts.
- G.** Vent Scrubber Material
1. Fabricated Aluminum Plate
 2. NINE corrugated plastic canisters that measure 11. 6" x 18". Each canister contains 50 LBS of odor scrubbing media.
 3. Latches in 316SS
 4. Hooks in 316SS
 5. 450 lbs. of odor scrubbing media designed for removal of H₂S gas.
 6. 4", 6" or 8" flanged connection with 7.5" (191mm) bolt circle – optional Metric flanges.
 7. Non-toxic, Landfill disposable media only.
- *** Plastic vent scrubbers that contain activated alumina media or carbon not accepted.**
- H.** Media Specification
1. Moisture content : 35% Max
 2. Crush Strength: 35% - 70% Max
 3. Abrasion: 4.5% Max
 4. Pellet Diameter: 1/16" (1.5mm-6.5mm)
 1. Wager media only will be accepted due to its high level removal capacity. No equals will be accepted. Carbon will not be accepted.

J. Only UL certified media will be accepted in Wager's vent scrubber.

K. If other forms of media are used in this unit, it must be designed to be 25% larger with a minimum of 25% additional media.

L. The general contractor is responsible for all design cost changes, engineer review time, and testing verification.



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S P E C I F I C A T I O N S

N. Built in Water Separator / mist eliminator

1. The body of the water separator is constructed from 50-52 H32 aluminum plate and is epoxy coated for protection from harsh environments.
2. The overall measurements of the unit are 26.25" x 31.25" x 35"
3. 10" flanged threaded aluminum connection provided for attaching to the 2050-1350
4. A Kerick Valve Assembly with float allows for excess accumulated water to be expelled.
5. An inlet stem provides an exit for accumulated moisture from the air release valve.
6. A Nitrile gasket allows for a tight fit of the aluminum plate cover.

O. Mist Eliminators

1. Highest collection efficiency of ANY mesh-type media: 99+% @ 1 μ m.
2. Composite pads of various mesh styles allow for optimization of efficiency, pressure drop, and pluggage resistance.
3. Able to handle the widest range of gas velocities and contaminant levels.
4. High void spaces (94-97%) and the largest fiber diameters contribute to the highest resistance to fouling.
5. Lower pressure drops than traditional knitted mesh.
6. Custom fabrication to conform to any Wager 2050 series.
7. The media is cleanable & reusable for extended service life in the harshest environments.
8. Wide range of materials of construction available, including polypropylene, PVDF, ETFE and PFA, to meet any level of temperature and corrosion requirements.



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INSTALLATION GUIDE



1. Remove media canisters. Ensure all of the original plastic wrap is removed from canisters. Media is in pellet form and should move freely to allow air to vent through. Check media pellets to ensure they are NOT wet.



2. Reinstall media canisters ensuring they are flush with the valve's inner chamber.



3. Place unit in desired location. Bolt flange to vent stack.



4. Secure the lid with the four lockable latches



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INSTALLATION INSTRUCTIONS

- Pour a concrete pad with bolts in place for slated feet on the unit.
- If preferred, a level crush stone pad may be used in lieu of concrete.
- Set the 450 on pad or stone, and bolt it down.
- Remove media from the unit.
- If the 450 is being used in conjunction with an ARV, get a complete blowout of the ARV so that there is no big slug of air through the media bed.
- Unwrap the media canisters and place in the unit.
- Reinstall the 450 cover, and lock down.



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REPLACEMENT PARTS LIST

2050-450-B-6	2050-100-SA BODY ASSEMBLY
2050-450-T	2050-450 COVER
FLNG GASKET 6-4	6-4 FLANGE GASKET
VRV-2050	2050-VACUUM RELIEF VALVE
OCU-2050-50	50 LB. CARTRIDGE ODOR CONTROL MEDIA
233-GASKET-3	GASKET, 3.0 "I.D. x 3.5" O.D.
SV- LATCH	UNDER CENTER DRAW LATCH
2500 ACFM	MIST ELIMINATOR PAD
WS-DRAIN-ASSY	WATER SEPARATOR VALVE
AAU-200-G	2050-200 DOOR GASKET



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MAINTENANCE GUIDE



1. Unlatch and remove lid from unit. Visually inspect the media canisters and air intake valves.



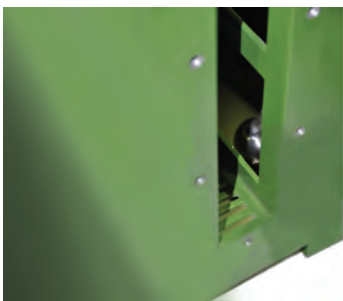
2. Inspect the media. Make sure it is dry. Shake or stir media pellets inside canisters every 3-6 months for maximum media life.



3. Unbolt water separator access plates. Inspect bolts, washers, and gasket. Remove water separator pads.



4. Wash water separator pad with hose.



5. With the water separator pad out, inspect float drain assembly. Remove any debris and ensure drain is clean.



6. Reinstall water separator pads, gaskets, and water separator pad plates back onto the unit. Secure the lid with the four lockable latches

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TEST PROCEDURES

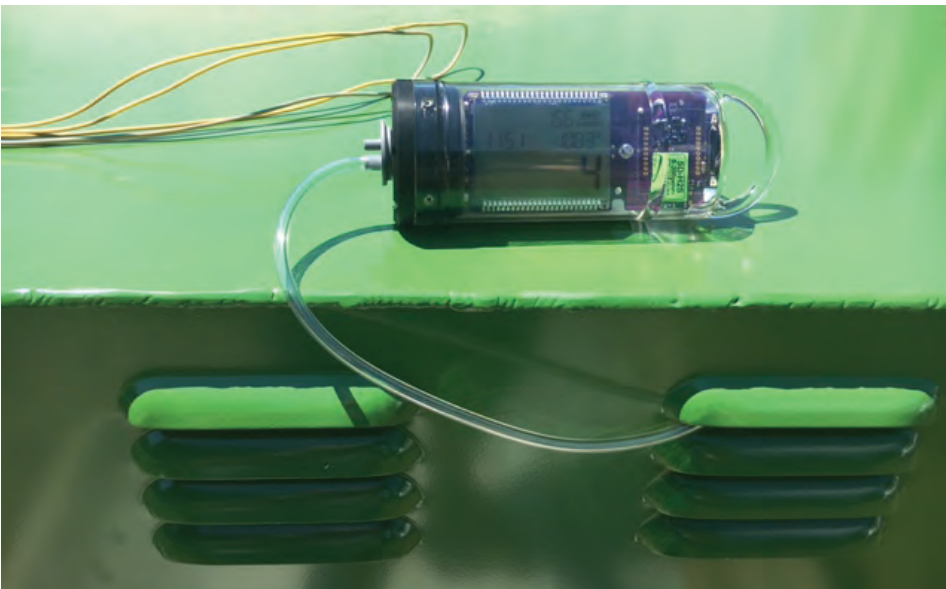


(Example of Side flange procedure.)



(Example of bottom flange procedure.)

1. Place Odor Logger in the bottom chamber of the unit, below the media baskets.



2. Place Odor Logger on top of media baskets, or place tube through the vent louvers.



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WARRANTY

Wager warrants our full line of Odor Control Valves for a period of twelve (12) months from the date of purchase of our products. This warranty covers the repair or replacement of any faulty manufacture of equipment produced by Wager. No allowance will be granted for repairs or alterations made by the Buyer.

The (1) year warranty does not cover Wager's engineered media. The media is meant to be replaced over time after scrubbing odorous gases from various sewer applications. Replacement of Wager's media with unauthorized material will affect the Limited Warranty of our products.



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