

2050-100

ODOR CONTROL SYSTEMS



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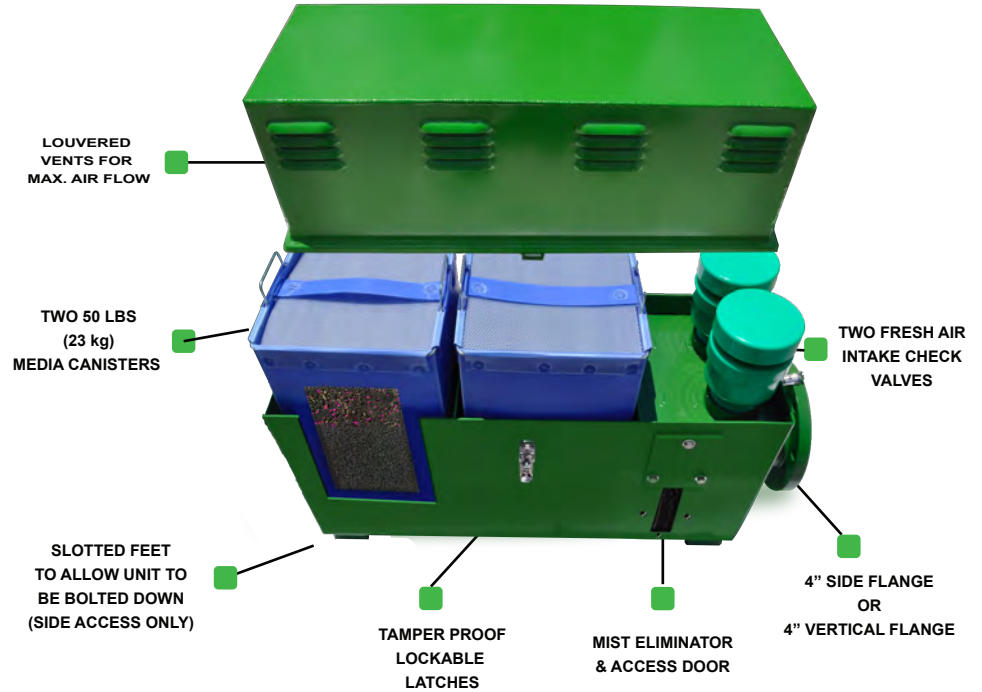
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ODOR CONTROL SYSTEMS

The 2050-100 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 (2) 50lb (23kg -1.5 cu.ft) canisters of Wager odor scrubbing media plus our custom Power-4 permanganate as a polisher. A mist eliminator pad is incorporated into the unit to prevent damage to the media bed from moisture.

The 2050-100 contains (2) 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 2050-100 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. Available as a vertical mount, or with a side access



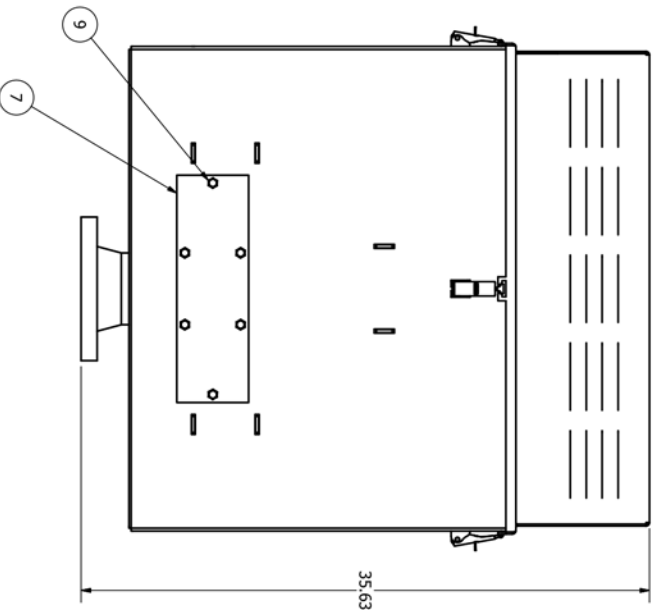
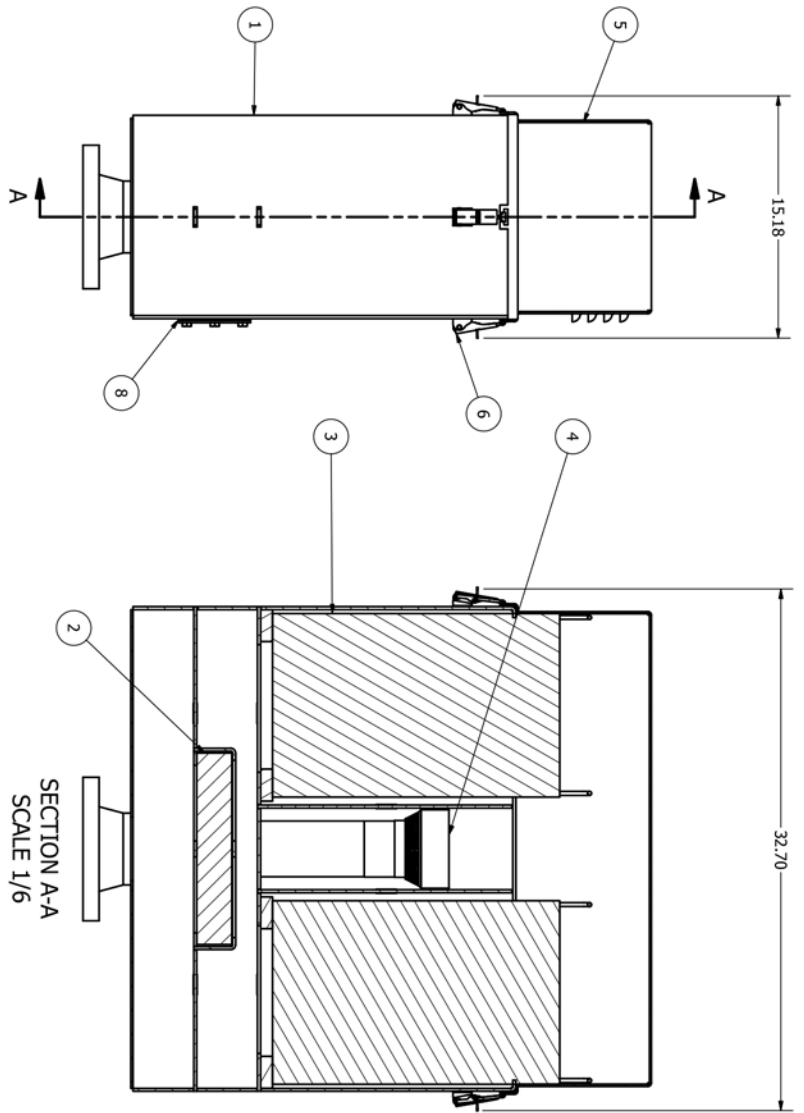
SPECIFICATIONS

4-2050 FAPC-IWS-100	VERTICAL MOUNT	MEDIA CAPACITY Est. 100 LBS. (23kg)	1 CANISTER	2 INTAKE VALVES	1 MIST PADS	EST CFM. 120-150
4-2050 FAPC-IWS-100S	SIDE ACCESS	MEDIA CAPACITY Est. 100 LBS. (23kg)	1 CANISTER	2 INTAKE VALVES	1 MIST PADS	EST CFM. 120-150



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*6" MODEL SHOWN, AVAILABLE IN 2" - 6"

PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	AAU-100-SET1	SEWER VENT, IWS
2	1	1000 ACFM	WATER SEPARATOR PAD
3	2	PAEM-2050-50	MEDIA CARTRIDGE
4	2	VRV-2050	VACUUM RELIEF VALVE
5	1	AAU-100-LID	SEWER VENT COVER, BA 100
6	4	SV-LATCH	COVER LATCH
7	1	AAU-50-7	PAD COVER
8	1	AAU-50-7-G	PAD COVER GASKET
9	6	BOLT-3/8-1	PAD COVER BOLTS

DESIGNED BY	11/1/2016
CHECKED	

ROBERT H. WAGER CO., INC.

TITLE
 BOTTOM ACCESS SEWER VENT, ODOR
 CONTROL W/ INTAKE AND WATER
 SEPARATOR, 100 LBS. MEDIA

QA	
MFG	
APPROVED	
SCALE	1/6"
SIZE	C
DWG NO	6-2050FAPC-100-IWS
REV	

2050-100

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

- A. This specification defines the requirements for a Wager 2050FAPC-IWS-100 manufactured by Wager Company in Rural Hall, NC.
- B. The 2050FAPC-IWS-100 consists of dry-scrubbing media contained in a fabricated aluminum plate housing, powder coated, grass green with a 4" or 6" inlet.
- C. The 2050FAPC-IWS-100 shall contain 100 lbs of dry-scrubbing media that is engineered for the removal of H₂S gas. The media is contained in two corrugated plastic container that is 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 ventilated openings.
- E. The 2050FAPC-IWS-100 contains TWO air admittance valves. They allow for up to 400 CFM of fresh air to intake directly into the lines without any restrictions from the unit's media bed. This assures continued airflow during pumping sequences needed with 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-IWS-100 shall include:
- 1 A fabricated aluminum plate body, powder coated grass green
 - 2 100 lbs of odor controlling media engineered in pellet form
 - 3 4" or 6" flanged connection – Optional metric flange
 - 4 Tamper proof lockable hook and security latches
 - 5 Disposable media corrugated plastic insert
- G. Vent Scrubber Material
1. Fabricated Aluminum plate
 2. Two corrugated plastic canister measuring 11 ½" x 18"
 3. Latches in 316SS
 4. Hooks in 316SS
 5. 100 lbs of odor controlling media designed for removal of H₂S gas
 6. 4" or 6" Flanged Connection with 7.5" (191mm) bolt circle – Optional metric flange
 7. Plastic vent scrubbers that contain activated alumina media or carbon will not be accepted.
 8. Media must be Non-Hazardous before and after it is spent.
- H. Media Specification
1. Moisture Content: 35% Max
 2. Crush Strength: 35%-70% Max
 3. Abrasion: 4.5% Max
 4. Pellet Diameter: 1/16" – ¼" (1.5mm-6.5mm)
- I. Wager media only will be accepted due to the high level of 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 media's 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.
- M. Analytical Services:
1. Samples of the media may be analyzed in order to predict the life of the system media at Wager's expense.



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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. Unlatch the lid and remove the lid from the body of the valve. The media canisters are wrapped in plastic for delivery. Remove the wrapped media canisters by lifting up on the handles provided on each of the media canisters.



2. Ensure all of the original plastic wrap is removed from the canisters before reinstalling. Media is in pellet form and should move freely to allow air to vent through. To check the media, pull up on the blue tab on the media canister lid. Check that the media pellets are dry.



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



4. Secure the lid with the four lockable latches.

2050-100-SA PICTURED- MODEL 2050-100 FOLLOWS THE SAME STEPS.



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2050-100

INSTALLATION INSTRUCTIONS

- Remove media from the unit.
- Connect the 2050-100 to corresponding flange and bolt together. .
- If the 2050-100 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.
- Ensure that any possible nearby source where H₂S gas can escape such as hatch doors are properly sealed.
- Unwrap the media canisters and place in the unit.
- Reinstall the cover, and lock down.



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REPLACEMENT PARTS LIST

AAU-100-SET-6	2050-100 BODY
AAU-100-LID	2050-100 COVER
VRV-2050	2050 VACUUM RELIEF VALVE
OCU-2050-50	50 LB. CARTRIDGE ODOR CONTROL MEDIA
FLNG-GASKET 6-4	6-4 FLANGE GASKET
SV- LATCH	UNDER CENTER DRAW LATCH
1000 ACFM	MIST ELIMINATOR PAD
AAU-50-7-G	2050 DOOR GASKET
233-GASKET-3	GASKET 3.0" "1.0 x 3.5" O.D.



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MAINTENANCE GUIDE



1. Unbolt water separator access plate. Inspect bolts, washers, and gasket. Remove water separator pad.



2. Wash water separator pad with hose.



3. Reinstall water separator pad and bolt access plate back onto the body.



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



5. Secure the lid with the four locable latches.

2050-100-SA SHOWN. ALL STEPS ARE THE SAME FOR 2050-100



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TEST PROCEDURES

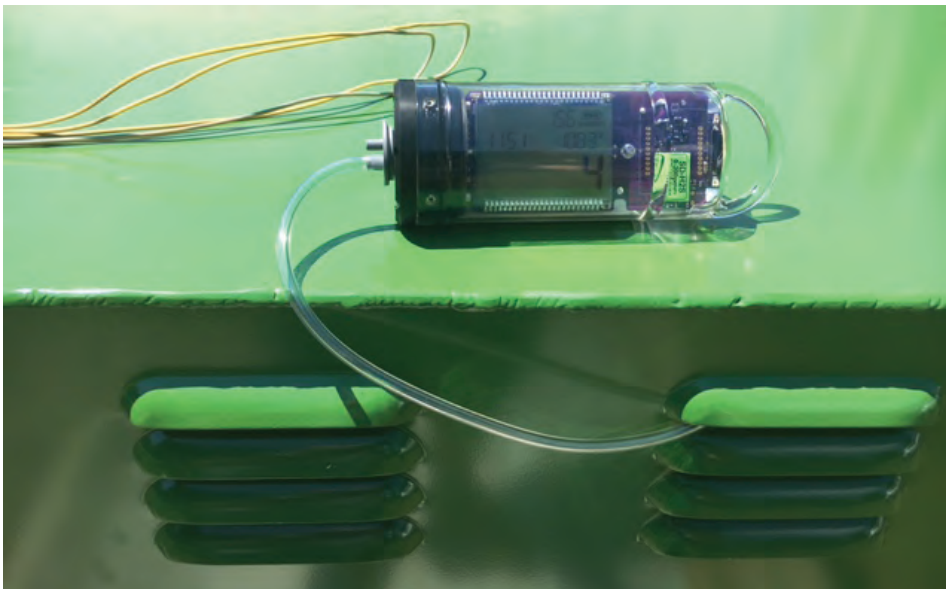


(Example of Side flange procedure.)



(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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