

# VACALL™ AV

*Industrial Vacuum Loader*





**2 Universal Filter Bags**

Universal fit, snap-ring filter bags are spread further apart to maximize the volume of airflow around each filter ensuring utilization of all filter surface area and making it easier for material to be effectively blasted off effectively.

**3 True Single Mode Filtration**

The efficient Vacall AV V-RB single-mode filtration system with twin-cyclone bulk material pre-filters ensures that both wet and fine, dry materials are removed before they reach the baghouse.

**4 Ease of Decontamination**

The hinged twin-cyclone top door permits instant access to all duct work allowing for decontamination in minutes.

**5 FailSafe Tailgate**

The simple opening/closing/locking system of the Vacall AV single hydraulic cylinder tailgate provides for smooth, leak-free operation. A reverse slope on the locking wedge tightens the tailgate under load. (Optional auger is shown.)

**1 Air Cannon Auto Reset Mechanism**

The Vacall AV air cannon filter cleaning system has an exclusive piston-reset mechanism. The piston is forced to reset after every cycle, keeping the bag pulsation system operating without interruption. Steel pipe versus hose carries air blast.



**6 Easy Maintenance**

Slip-resistant steps and platforms mounted throughout the power train area of the machine provide instant and safe access for maintenance. No crawling over or under components.

**7 Control Panel**

A single multi-pin connector joins the control panel with circuit breakers to the electrical harness. An inscribed wiring diagram maps the course of every wire. Labeled wires and labeled terminal strips take the mystery out of connections.

**8 Exclusive Poured-In Gasket (PIG) Seals**

All module gaskets, other than the tailgate gasket, are Vacall's exclusive long-life Poured-In Gaskets (PIG). PIG Gaskets are specially formulated to be extremely tough and resistant to both acids and alkalines.

**9 Enlarged Dumpchutes**

All material dumps freely through large, smooth, rounded dumpchutes. Bolt-on, modular dumpchutes shown are standard. Weld-on dumpchutes are optional.

**10 One Man Safety Prop**

This standard protective feature allows safe engagement of the body prop by one person.

## Single Mode Filtration

The Vacall AV's standard six-stage, single-mode filtration system is designed to save fuel, increase machine life, eliminate maintenance expense and reduce machine noise.

**Stage 1**

Equipped with a standard deflector plate or optional self-cleaning chain filter at the point of entry, material is diverted out of the airstream.

**Stage 2**

In the second stage, the expansion chamber effect of the debris tank filters out the bulk of all material vacuumed.

**Stage 3**

Air is lifted through a vertical riser where heavier particles fall out. A stainless steel float ball chokes off liquid loads near the front end of the debris tank while allowing for maximum material loading.

**Stage 4**

Dust-laden or water-saturated air continues into the Twin-Cyclone filter, which consists of two bulk material cyclone separators designed to filter out particles ranging from 10 to 100 microns. The cyclones spin out wet or dry material while a stainless steel funnel in the lower section of each cyclone helps channel material into a 3-cubic-yard receptacle below.

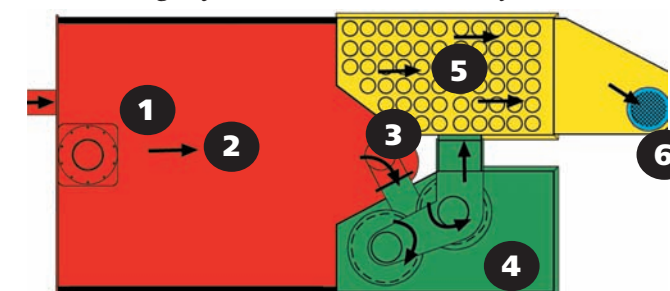
**Stage 5**

Smoke-like dust still remaining in the airstream flows into the baghouse filter, which is designed for extreme duty. Oversized filter bags with standard-sized cuffs provide a very conservative air-to-cloth ratio. (Optional cartridge-style filters available.) The Vacall AV's effective cleaning process is a compressed air system that utilizes an air cannon to blast the baghouse filter bags or optional cartridges with powerful bursts of air, thereby knocking particles off the outside of the filters and into the chamber below. Vacall AV's unique design ensures that the air cannon piston resets after each air blast. A standard timer on the air cannon and oversized chassis air compressor prolong the life of all air system components.

**Stage 6**

A removable filter inlet basket serves as final vacuum pump protection.

The Stages of the Vacall AV's Filtration System



Due to continuous product improvement, Vacall reserves the right to change specifications without notice. Equipment shown may include non-standard accessories.

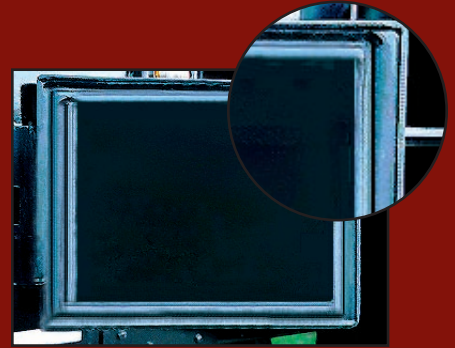
# VACALL™ AV

## A simple, rugged design makes the Vacall AV the best combination sewer cleaner on the market.

# Vacall AV Features

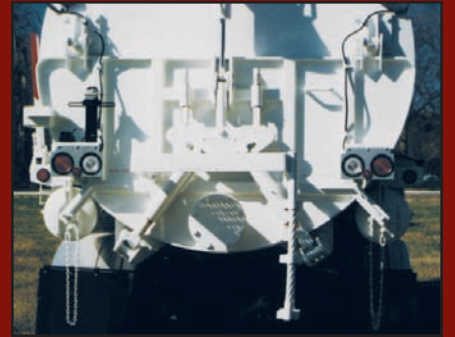


Vacall AV's exclusive Poured-In Gasket (PIG) material forms a contoured lasting seal that is resistant to acids and alkalines.



Easy to operate and visible from the operator's control panel, the Vacall AV Tailgate Safety Prop is a standard feature.

Simple, efficient tailgate features electric backup alarm, sealed truck light wiring, tailgate-mounted tail lights, failsafe wedge locks, tailgate platform and ladder, reversible tailgate gasket, adjustable hinges and wedge locks, tailgate safety check valve.



Easy access duct work makes clean out quick, efficient and safe.

Slip-resistant stairs provide sure footing to all access areas of the truck.



a.) Aluminum non-sparking raincap is used on exhaust silencer. b.) Easy and safe access to the final filter for the vacuum pump. c.) Universal Kunkle valves relieve vacuum on 16" and 18" vacuum systems. d.) Oversized, vertical-style hydraulic tank provides positive feed of oil to the hydraulic pump while keeping oil cool.

## VACALL™

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