



## Specifications - Industrial

5816SM

### DEBRIS BODY

Debris storage body has have a minimum usable liquid capacity of 16 cubic yards. The body is round for maximum strength and constructed of 3/16 inch Corten A steel for corrosion resistance.

The debris body is dumped utilizing a single 3-stage hydraulic lift cylinder, mounted to the chassis frame rails and is connected to the tank head, offering maximum stability throughout the dumping cycle. The debris tank lift cylinder is hydraulically powered in both up and down directions. There are two safety props, one on each side of tank,

Dump controls are located on curbside mid-ship of the unit, well forward of the dumping area for operator safety. A manual override system is provided in case of system failure.

The debris body has a five year warranty.

An internal polyethylene float device with external indicator is supplied to show when body is loaded to capacity.

An outlet box providing airflow passageways is mounted directly over the 14 inch diameter debris body outlet. These passageways are a minimum of 8 inch diameter each.

A sealing surface on this outlet box rests against an adjustable inlet box when in the full down position.

An 8 inch clean-out/inspection door is provided at the top of the outlet box for ease of cleaning and inspection.

An external liquid level indicator is provided as standard.

Individual rubber isolated cradles is mounted on each side of the debris body where it rest on the frame.

The dump angle is minimum of 50 degrees.

### REAR DOOR

The rear door is constructed of 3/16 inch Corten A steel.

It opens to a full 90 degrees to the sealing flange, allowing a completely unobstructed dump path.

All hydraulic locking/unlocking and open/close functions are located at the operators control pane.

A positive locking/sealing mechanism is provided.

Method of locking is shimmable to allow for gasket wear.

### WET AND DRY SINGLE MODE

Twin cyclonic baghouses are provided and are 3/16 inch steel .

The unitized design of these baghouses allows for easy removal for repairs or replacement.

Twenty-six pleated cartridge type filters are provided.

The baghouses are accessible from the topside of the unit and have individual lids for opening to expose the filters, plates, and reverse pulse/air cannon air tubes.

All baghouses have a conical shaped material collection area. Each has an 8 inch flange with an 8 inch easy opening butterfly valve.

The baghouse inlets are located as to provide a material capacity of .75 cubic yard or 145 gallons in each baghouse.

### FINAL STRAINER

The final strainer is made of all 3/16 inch steel. It is flanged mounted with rubber gaskets at blower connection, and rubber isolators at frame mounting.

An 18 inch blower inlet access door is provided for ease of blower inspection and maintenance.

Vacuum relief valving is mounted into the final strainer . A selector valve providing a choice of 16 inches Hg. or 27 inches Hg. is provided.

The final strainer filtration system consists of a single bag and provides 99 percent filtration of particles less than 10 micron.

A lid is provided for ease of cleaning/removal of final filter.

### **TOP SIDE ACCESS**

Access to baghouses, air passageways and final strainers is provided.

Catwalks are provided so the operator has a level working surface.

### **POSITIVE DISPLACEMENT BLOWER**

The blower is a Roots Model Tri-nado. The blower is rated at 5760 C.F.M.'s.

All blower legs and flanges are rubber isolated mounted.

### **BLOWER DRIVE**

The blower is driven by the truck engine via a Cushman or Cotta transfer case and PTO. This same transfer case is utilized to drive the hydraulic pump.

The blower drive system is engaged from the truck cab via air shifters mounted within easy reach of the operator.

### **OPERATORS CONTROL PANEL**

The operator's control panel is mounted within easy reach from ground level and contains the following gauges/controls:

- Vacuum gauge
- Air pressure gauge
- Transfer case temperature gauge
- Digital tachometer
- Hourmeter
- Air pulse timer
- Circuit breakers
- All necessary warning and operation lights and indicators.

This panel is rubber isolated mounted, moisture and dust resistant.

A plexi-glass panel is supplied for viewing all gauges/lights while door is closed.

### **HYDRAULICS**

All hydraulic functions are accomplished from a single location unless otherwise required for a selected option.

The hydraulic system will provide all capacities required for sufficient oil cooling and for any options which may be purchased at a later date.

### **ELECTRICAL**

All electrical circuits are color coded and numbered for ease of maintenance.

All circuits are protected by appropriate re-settable circuit breakers, not fuses.

Proper wiring schematics are included in owners manual.

The vacuum manufacturers electrical circuitry supplies a circuit breaker system, independent of the chassis circuit breaker system.

### **VACUUM BREAKER**

The vacuum breaker is operated via a toggle switch in the control panel. This is utilized to completely break vacuum for operator safety.

The vacuum breaker is able to operated at max. rpm.

### **MATERIAL RETURN**

6 inch kanaflex hose runs from the bottom of each baghouse to the upper, rear of the debris tank. There is a 4 inch gate valve located on the bottom of each baghouse that opens and closes allowing air flow from the baghouse to the debris body, cleaning out the baghouse. Before the debris body, there is an 8 inch butterfly valve allowing air flow into the tank. Opening the valve on the bottom of the baghouse and the 6 inch butterfly valve cleans out each baghouse. This allows the operator to clean the baghouses while maintaining vacuum and without moving the truck or driving to the dump site.

**ACCESSORIES**

A twelve (12) month manufacturer's guarantee on the unit is provided.

**LIGHTING**

The entire module electrical system is vapor sealed to eliminate moisture damage.

All wiring is color-coded, labeled and run in sealed terminal enclosures.

All module circuits are protected by circuit breakers.

Clearance lights and reflectors are furnished in accordance with D.O.T. requirements.

**PAINT**

Unit paint surface is shot blasted, primed and sanded prior to paint. Unit to be painted with Dupont Imron 5000 polyurethane paint.

**TRAINING AND MANUALS**

Operator training will be conducted by a factory-trained representative for a minimum of one day at the time of delivery. 2 copy(ies) of the operating and maintenance manual for the sewer cleaner module shall be provided upon unit delivery. An operational video will be provided with the unit.

**MOUNTING**

The unit described will be mounted on a truck chassis acceptable to the body manufacturer at the factory of the body manufacturer.