

## WATER TREATMENT

# VACUUM FILTRATION SYSTEM

## PORTABLE OR STATIONARY FILTRATION SYSTEM



Protecting the environment from wash water runoff and complying with governmental regulations is simple, economical and effective with the **Alkota Vacuum Filtration System (VFS)**. The **VFS** is designed to be used as a portable or stationary treatment system that guarantees results with ease of service while minimizing disposal cost. This automatic and easy to use zero or controlled discharge system has been uniquely designed to keep businesses operating without expensive filter cost, down time and additional manpower. The **VFS** can be equipped with a portable wheel kit for specific sight portability or with ease fit into pick-up trucks, vans or onto trailers. \*For increased pick-up capacity operate with an Alkota Gasoline powered vacuum system.

### APPLICATIONS FOR VFS - COMPLIMENTING ALKOTA POWER WASHERS

- Parking structures
- Sidewalks
- Parking Lots
- Loading Docks
- Sports Stadiums
- Service Stations
- Convenience Stores
- Contract Cleaning
- Retail Stores Fronts
- Auto Detailing
- Restaurants
- Food Processing
- Auto Repair Shops
- Car Dealerships
- Property Maintenance Companies

### HOW IT WORKS

The complete process utilized in the **VFS** is the first of its kind and the manner in which it operates is unique and proprietary to **Alkota**.

The wash water is vacuumed through the pre-filtered 14" round 4-mesh multi-tier suction head or a surface cleaner. The waste stream then enters the **Phase I** filtration chamber that contains three 100-micron screen filters and eight polymer impregnated micro-fiber filters.

This process removes most solids and 99.9% of free oil and petroleum related products. There is no time consuming and expensive bag filters or baskets to clean.

The **VFS** filtration continues with a **Phase II Perking®** filtration process, trapping more fines solids with three 120 mesh screens that never need to be replaced. Finally the effluent enters the final **Phase III** filtration process which is pressurized through high density string wound polishing filters of 50 and 20 microns before going to discharge or re use. The polishing filters are monitored by pressure differential gauges, making it easy to identify when filters need cleaning or replacement.



# VACUUM FILTRATION SYSTEM SPECIFICATION CHART

MODEL	VFS	VFS	VFS	VFS	VFS
<b>Part Number</b>	8-VFS2-1B0000	8-VFS2-SCN061	8-VFS2-SHN007	8-VFS2-SFS039	8-VFS2-SJN110
<b>Capacity</b>	5 GPM/Single Vacuum	5 GPM/Dual Vacuum	5 GPM/Less Vacuum	8 GPM/Dual Vacuum/Dual Pump Out	5 GPM/Single Vacuum
<b>Voltage</b>	115 v /13 amps	115 v /24 amps	115 v /1.6 amps	115 v /26 amps	115 v /11.5 amps
<b>Vacuum</b>	6" Vacuum	6" Vacuum	6" Vacuum	6" Vacuum	6" Vacuum
<b>System Flow Capacity</b>	5 GPM	5 GPM	5 GPM	8 GPM	5 GPM
<b>Vacuum Motor</b>	1.60 HP High Efficiency	1.60 HP High Efficiency	1.60 HP High Efficiency	1.60 HP High Efficiency	1.60 HP High Efficiency
<b>Air Flow</b>	112 CFM 2 stage	224 CFM 2 stage	N/A	224 CFM 2 stage	112 CFM 2 stage
<b>Transfer Pump</b>	5 GPM High Efficiency	5 GPM High Efficiency	5 GPM High Efficiency	8 GPM High Efficiency	5 GPM High Efficiency
<b>Pump Power</b>	120 Volt	120 Volt	120 Volt	120 Volt	12 Volt
<b>Dimensions</b>	27"L x 33.5" W x 40"H	27" L x 33.5" W x 40"H	27" L x 33.5" W x 40"H	27" L x 33.5" W x 40"H	27" L x 33.5" W x 40"H
<b>Weight</b>	135 lbs.	135 lbs.	135 lbs.	135 lbs.	135 lbs.

## Advantages

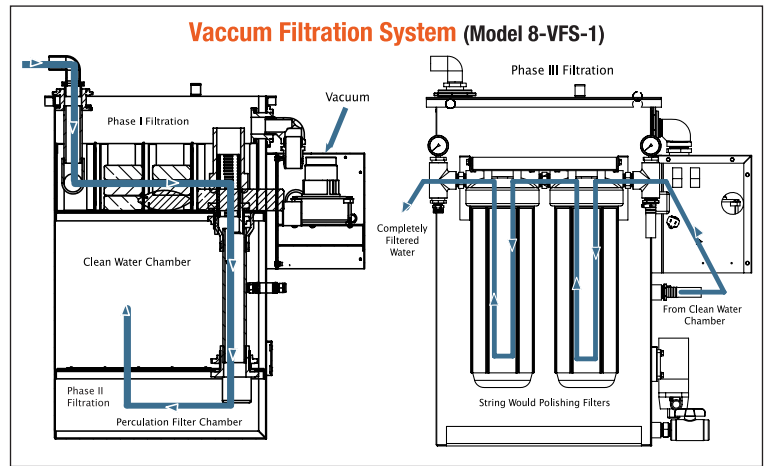
- Discharge point of choice
- Multiple Phase Separation
- 17 Stages of Filtration
- Small compact design
- Simple to operate
- Easy to maintain
- Minimal operational costs
- Minimal disposal costs
- 120 volts, low amperage
- On demand system
- High volume performance
- Reduces 99% of free petroleum hydrocarbons load
- Reduces totally suspended solids load down to 20 microns.

## Standard Features

- 2" x 50ft Vacuum Hose
- 16" Round Suction Head
- Replacement Filter Set
- 50 & 20 micron string wound depth filters
- Differential pressure gauges
- Filter housing drain valves

## Optional Features

- Wheel kit with hose rack
- 50 HTZ voltage

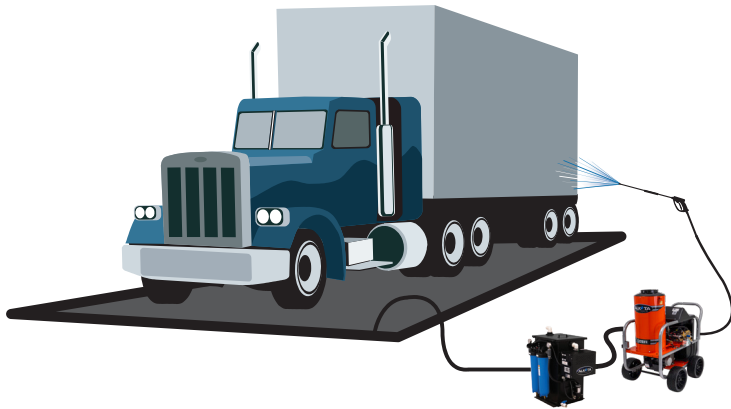


## FOR BETTER CLEANING



Clean Better with **Alkota** Biodegradable detergents specially formulated for high pressure cleaning.

All pressure washer detergents are blended with sealers to reduce scale buildup in the heating oil, pump and fittings. This improves equipment performance and minimizes replacement and repair cost.



**Alkota Cleaning Systems Inc.**  
Alcester, South Dakota 57001

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## CERTIFICATIONS



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