



VACUUM *Filtration* SYSTEM

PORTABLE OR STATIONARY FILTRATION SYSTEM



Vacuum up & REUSE WATER FAST & EASY WITH LOW DISPOSAL COSTS

Protecting the environment from wash water runoff and complying with governmental storm drain 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.

Applications for VFS

- Parking Structures
- Sidewalks
- Parking Lots
- Loading Docks
- Sports Stadiums
- Service Stations
- Convenience Stores
- Retail Store Fronts
- Auto Detailing
- Restaurants
- Food processing
- Auto repair shops
- Car dealerships
- Property Maintenance Companies

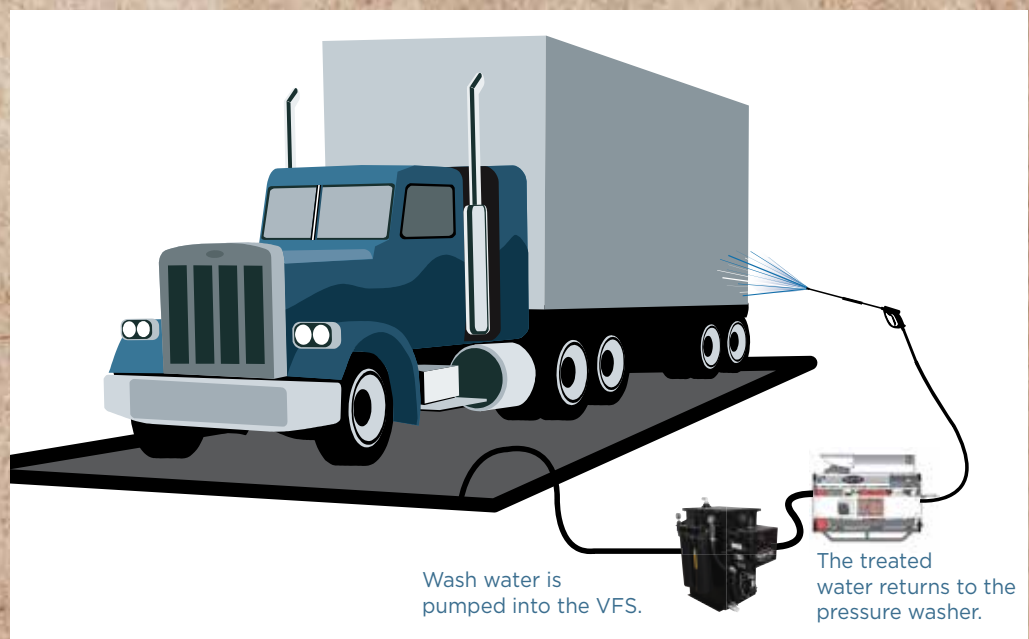
HOW IT WORKS

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 first two Phases of filtration operate and flow under a vacuum or negative void to enhance flow and extended filter life.

The wash water is vacuumed through the pre-filtered 14" round patent pending 4-mesh multi-tier suction head or a

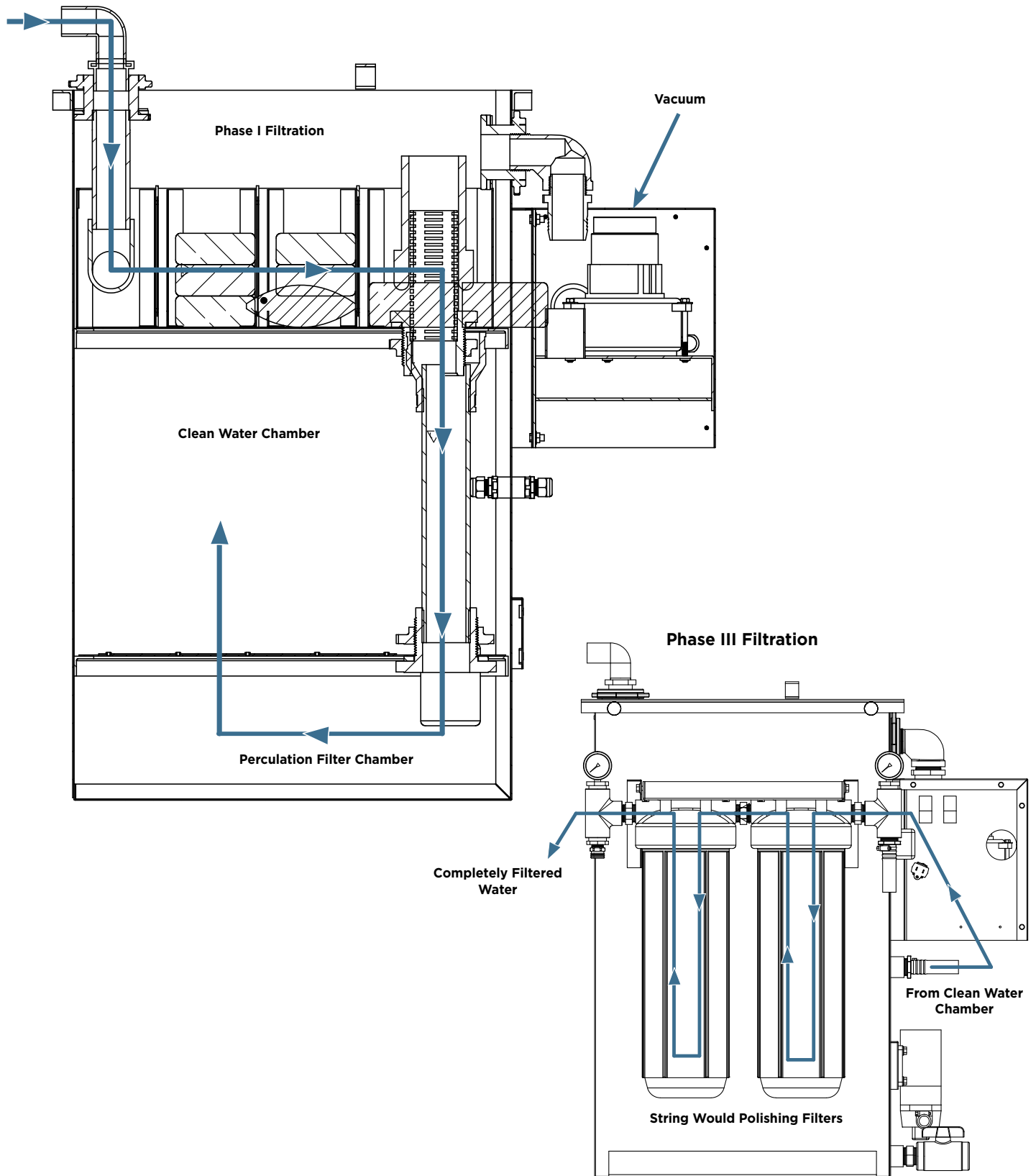
specifically designed surface cleaner. The waste stream then enters the **Phase I** filtration chamber that contains three 100 micron screen filters and eight polymer impregnated micro-fiber filters. This process removes most solids and 99.9% of free oil and petroleum related products. There is no time consuming and expensive bag filters or baskets to clean.

The VFS **Phase II** filtration continues with the patent pending Perking® Filtration process trapping any remaining fine solids with three 120 mesh screens that never need removing or replacing. Finally, the effluent enters the **Phase III** filtration which is pressurized through high density string wound polishing filters of 50 and 20 micron to a discharge source of choice. The polishing filters are monitored by pressure differential gauges, making it easy to identify when filters need cleaning or replacement.



VACUUM FILTRATION SYSTEM

MODEL 8-VFS-1



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 volt, low amperage.
- On demand system.
- High volume performance.
- Reduces 99% of free petroleum hydrocarbons load.
- Reduces totally suspended solids load down to 10 micron.

MODEL NUMBER	8-VFS-1
VOLTAGE / AMPERAGE	120 volt / 13.1 amp
INLET SIZE	1.50 Inch Vacuum Hose
OUTLET SIZE	3/4 Inch GHT Garden Hose
VACUUM	6 Inches Vacuum
SYSTEM FLOW CAPACITY	5 GPM
PRESSURE WASHER FLOW	*8 GPM is the maximum recommended washer size
TANK CAPACITY	50 Gallon
VACUUM MOTOR	1.60 HP High Efficiency
AIR FLOW	112 CFM 2 Stage, 224 optional
HOSE	50 foot 1.50 inch vacuum hose
TRANSFER PUMP	5 GPM High Efficiency
TRANSFER PUMP PRESSURE	Up to 35 PSI
PUMP POWER	120 Volt
INLET SUCTION FILTER	**1 - Mesh Cleanable Screen
INLET INLINE FILTER	**1 - Clear, 80 mesh cleanable basket
PHASE I FILTRATION	**11 - Filters, solids & Oil absorbent
PHASE II PERK® FILTRATION	**3 - 120 mesh screens Perk® Filtration
PHASE III FILTRATION	**2 - String wound filter w/canister 50 & 20 micron
PRESSURE DIFFERENTIAL GAUGES	Dual pressure gauges, inlet and outlet of canister module
SYSTEM CONTROLS	On/Off switches with high / low water safety control
DRAIN VALVE	Perk® Filtration tank Ø inch solids drain valve
SYSTEM BYPASS PUMP OUT	Override momentary contact for manual pump out
PRESSURIZED PUMP OUT SIZE	3/4 inch GHT Garden Hose
DIMENSIONS	27" L x 33.5" W x 40" H
DRY WEIGHT	135 Lbs.

*A pressure washer is operated with the trigger gun open only 60% of the time (8 GPM x .60 equals 4.8 GPM) so the required flow of the VFS is 5 GPM.

** Total 18 filtration devices utilized.

