



An Ovivo Company



Contact Alar

Alar Water Treatment LLC.
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ALAR AUTO-VAC®

ROTARY VACUUM DRUM PRECOAT FILTER

THE AUTO-VAC FILTER REMOVES SOLID CONTAMINANTS FROM INDUSTRIAL WASTEWATER, PRODUCING DISCHARGE QUALITY WATER AND LANDFILL-READY, DEWATERED, DRY SOLIDS.

Alar Water Treatment designed the Auto-Vac for commercial production and manufacturing companies in need of robust industrial wastewater treatment equipment. The Auto-Vac® system filters out one-micron particles from water, which significantly reduces pollutants such as TSS, Oil & Grease [FOG], Metals and Insoluble BOD & COD.

Skid mounted, pre-piped and pre-wired for easy installation, the Auto-Vac rotary vacuum drum precoat filter handles a wide range of volumes with various solids loadings. The self-cleaning feature maintains a consistent filtration rate without clogging, blinding or bottlenecks. This industrial wastewater treatment system is easy to install and more cost efficient than hauling wet or liquid tonnage.



WASTEWATER TREATMENT EQUIPMENT MANUFACTURER

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ALAR AUTO-VAC® FEATURES

Alar's exclusive non-segmented drum design utilizes 100% of the Auto-Vac filter surface. A 26"Hg liquid ring vacuum pump yields rapid thru-puts and landfill-ready solids.

Alar engineered the Auto-Vac with variable adjustments for more efficiency. The operator can control the speed of the drum rotation and knife advance, along with the liquid level in the filter pan. Each independent function contributes to maximum effluent quality and dewatered solids.

The filter aid media provides "single-pass" microfiltration with every revolution of the drum. When saturated with solids, the contaminated media scrapes off to expose a clean filter layer. This media protects the filter cloth by preventing direct contact with the wastewater contaminants.

Alar offers sixteen (16) Auto-Vac filter sizes. The incoming solids or contaminant loading, volume and amount of filtration hours per day will factor into the drum size needed. Alar determines the Auto-Vac size by measuring how fast the water [liquid] flows through the filter media and measures the filtration rate [thru-put] in gallons per hour – per square foot of filtering area.

AUTO-VAC® MODEL & SIZE CHART

Auto-Vac® Model Number	Drum Diameter (Feet)	Drum Length (Feet)	Nominal Filtering Area (Square Feet)
AV110	1'	1'	3.14 Ft ²
AV220	2'	2'	12.6 Ft ²
AV230	2'	3'	18.8 Ft ²
AV330	3'	3'	28.3 Ft ²
AV340	3'	4'	37.7 Ft ²
AV360	3'	6'	56.5 Ft ²
AV640	6'	4'	75.4 Ft ²
AV650	6'	5'	94.2 Ft ²
AV660	6'	6'	113 Ft ²
AV690	6'	9'	170 Ft ²
AV6120	6'	12'	226 Ft ²
AV8120	8'	12'	302 Ft ²
AV8160	8'	16'	402 Ft ²
AV8200	8'	20'	503 Ft ²



SALES



ENGINEERING



MANUFACTURING



CHEMICALS



PARTS

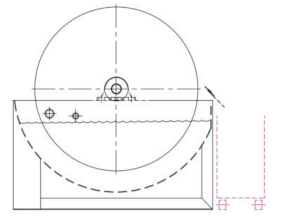


LAB & PILOT TEST

ALAR AUTO-VAC® GENERAL OVERVIEW & FILTRATION CYCLE

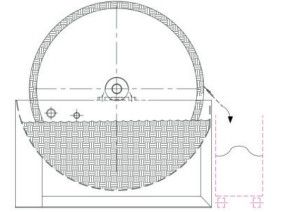
1 Auto-Vac Rotary Vacuum Drum Precoat Filter

Hollow Drum
Wedge Wire Screen
Polypropylene Cloth Covers Screen
Drum Rotates in Filter Pan (Trough)



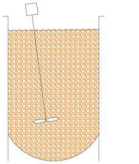
2 Auto-Vac Filter Aid Precoat Cycle

Diatomaceous Earth (DE) Filter Aid
DE Slurry Feeds to Filter
Vacuum Builds DE "Cake"



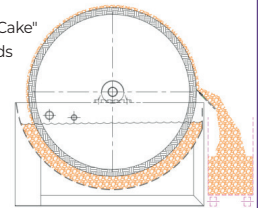
3 Auto-Vac Filtration Cycle

Wastewater Mixes in Tank
No Settling
Chemical Pretreatment (If Necessary)
Pumps to Auto-Vac at Controlled Rate



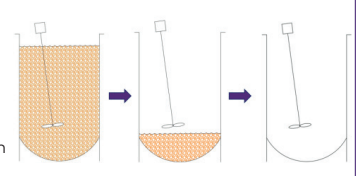
4 Auto-Vac Filtration Cycle

Wastewater Fills Filter Pan
Drum Rotates in Pan
Vacuum Pulls Water Thru DE "Cake"
DE "Cake" Captures <1-um Solids
Advancing Knife Removes Surface Solids
Solids Fall into Dumpster (Landfill Ready)
Water Pumps Away to Discharge Point



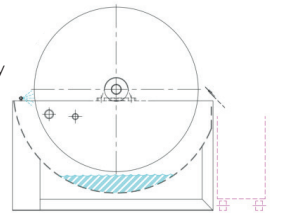
5 Auto-Vac Filtration Cycle

Filtration Continues -> Empties Tank
Typical Filtration Cycle = 6 Hours



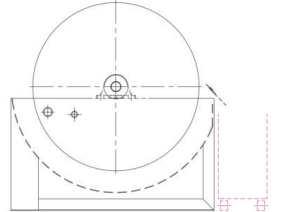
6 Auto-Vac Wash-Up Cycle

Wastewater Tank Empty
DE "Cake" Consumed
Batch Complete
Drum Filter & Pan Washed Down
Wash-Up Filtered in Next Batch



7 Auto-Vac

Filter is Ready for Next Batch Cycle



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