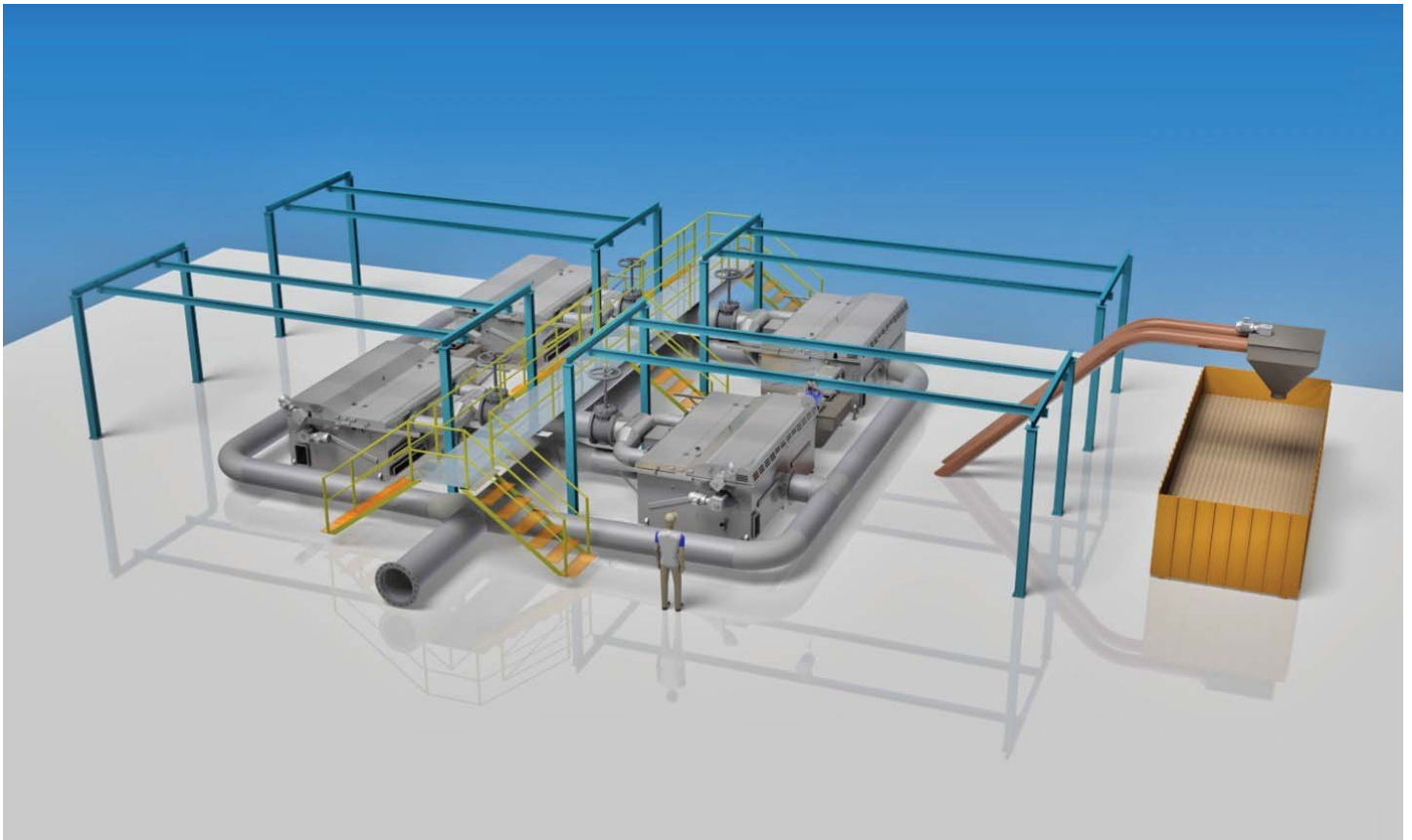


ANDERSON FILTRATION

PROVIDING SOLUTIONS FOR A BETTER FUTURE

Microscreen Industrial Separation



PROVIDING SOLUTIONS FOR A BETTER FUTURE

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The Anderson Filtration Microscreen - Going beyond conventional

The Microscreen is the next generation for high efficiency, high flow liquid solid separation that provides large scale filtration in an economical compact modular package. The Microscreen is a mechanical device that screens suspended solids from incoming liquids at higher efficiencies than ever before. Captured solids are collected and dewatered and exiting liquids are filtered. The Microscreen has extensive applications for industrial operations. The Microscreen is the perfect solution for industrial plants that need to remove suspended solids from either a process stream or a waste stream. Whether you are looking to increase capacity of existing systems or looking to upgrade existing systems to meet the rising demands of new discharge requirements the Microscreen is the perfect solution at an affordable price.

The Anderson Filtration Microscreen provides improved treatment efficiency, smaller footprint, lower initial cost and operating costs compared to other treatment processes.

Industrial Applications

Efficiently removing solids from your waste streams and improving system performance is the key to lowering cost and benefiting the environment. The Microscreen can surpass the capabilities of existing conventional technologies for primary treatment in any of the following industries:

Meat Processing
Beverage and Fermentation
Fish Hatcheries and Farms

Poultry Processing
Food Processing Industry
Pulp and Paper

Fish Processing
Fruit and Vegetable Processing
Tanning

This list is not exhaustive, Microscreen can have application anywhere liquid solid separation is a component of an industrial process. Contact us today to find out if your application is compatible with our technology. We can perform simple tests to determine sieve performance in your application with little hassle. We also have a mobile demonstration unit that we can bring to your facility to run full scale tests to determine actual system performances and proof of technology.

Microscreen Design Detail

Anderson Filtration believes that the key to success is to provide the best possible equipment at the lowest possible cost. Our close attention to engineering and performance has resulted in the design of equipment that out-performs others, is reliable, and operator friendly.



Anderson Filtration Microscreen Operation

The Anderson Filtration Microscreen utilizes a proprietary and patent pending continuous sieve to separate solids from influent. The Microscreen passes influent through a revolutionary rotating polyester sieve with openings between 100 to 800 microns.

The continuous belt screen receives influent in an enclosed tank, which is then filtered and directed to downstream process equipment. The sieved solid residue is then conveyed above the tank liquid level, to the belt cleaning section, and removed by dewatering where solids are expelled as a cake. The dewatered solids or cake can discharge to a container or to a conveying system for either quick disposal or conversion to energy.

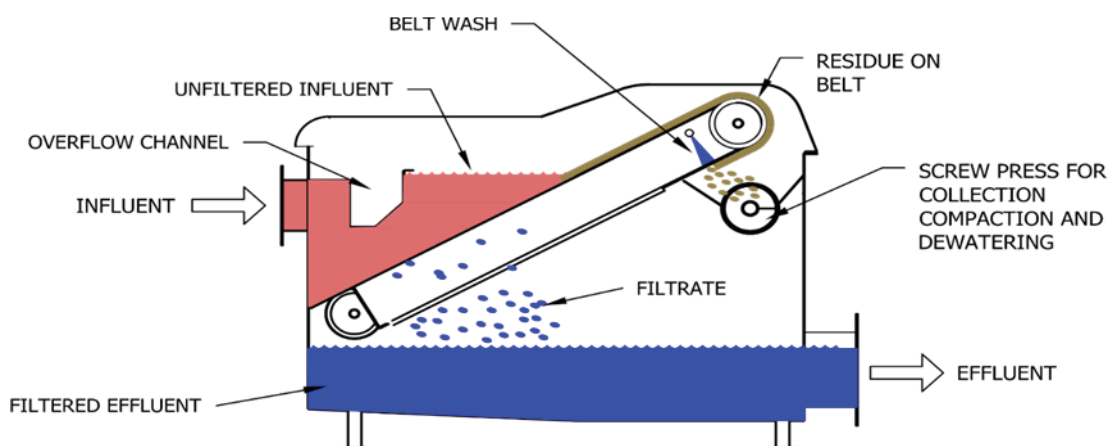


Figure 2. Anderson Filtration Microscreen Flow Schematic

TABLE 1		ANDERSON FILTRATION MICROSCREEN DESIGN DATA				
		AF-270	AF-940	AF-1800	AF-3400	AF-3600
Maximum Hydraulic Capacity¹ GPM (LPM)		300 (1,136)	1,045 (3,955)	2,185 (8,271)	3,765 (14,252)	4,371 (16,546)
%-TSS Removal Efficiency (typical)		40-70 %	40-70 %	40-70 %	40-70 %	40-70 %
%-Solids from Dewatering (typical)		30-40 %	30-40 %	30-40 %	30-40 %	30-40 %
Model	Weight	Dimension		Inlet / Outlet Connections	KWh Rating	Estimated Power Usage ²
AF-270	1,300 lbs. (589 kg)	71" W x 71" D X 50" H 1.8m W x 1.8m D X 1.3m H		3" / 6"	2.09 kWh (2.80 HP)	35 kWh/day
AF-940	1,840 lbs. (835 kg)	88" W x 81" D X 59" H 2.2m W x 2.1m D X 1.5m H		6" / 10"	2.15 kWh (2.88 HP)	36 kWh/day
AF-1800	4,050 lbs. (1,837 kg)	122" W x 86" D X 62" H 3.1m W x 2.2m D X 1.6m H		8" / 12"	3.58 kWh (4.80 HP)	60 kWh/day
AF-3400	3,650 lbs. (1,656 kg)	144" W x 102" D X 72" H 3.7m W x 2.4m D X 1.8m H		12" / 16"	4.51 kWh (6.05 HP)	75 kWh/day
AF-3600	6,635 lbs. (3,010 kg)	208" W x 119" D X 62" H 5.3m W x 3.0m D X 1.6m H		2x8" / 20"	5.63 kWh (7.55 HP)	94 kWh/day

¹Actual throughput capacities will depend on belt screen porosity and incoming solids loading (i.e., TSS)

²Estimated power consumption based on 24-hr continuous operation & 70% duty cycle (average)

³Estimated treated flow is based on medium strength waste water in municipal applications using 300 micron sieve

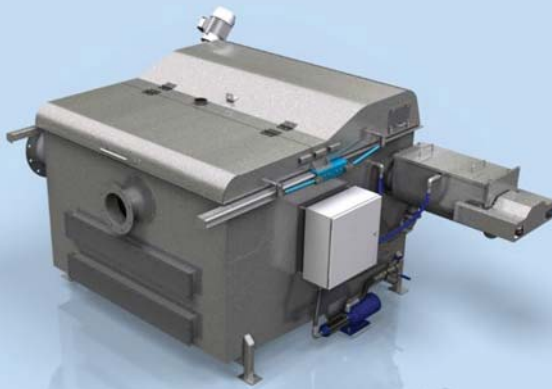


Figure 2. AF-1800 Stand-alone unit

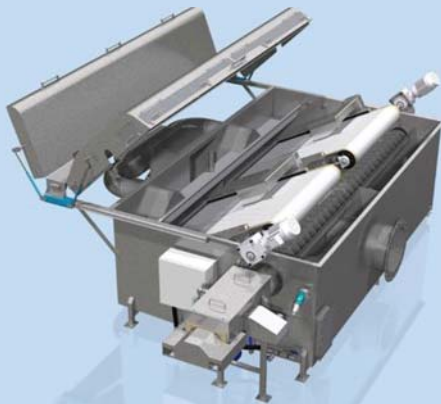


Figure 3. AF-3600 Stand-alone unit

The Anderson Filtration Microscreen Models AF-270, AF-940, AF-1800 and AF-3400 are single belt machines. The AF-3600 is a duplex arrangement with 2 belt assemblies installed in one housing with one solids collection system. The Microscreen can be provided as a stand-alone unit or mounted on a pre-wired skid platform which can drastically reduce field installation cost. Our skid units can be mobile units ready for deployment. Permanent installations can be set-up with automated solid collection systems taking significant labor out of managing solids produced in large scale operations. All Microscreen units are provided with a basic control system. Anderson Filtration can customize the control system for remote control, real-time monitoring, upgraded human interface and additional controls for auxiliary systems. Many options are available to make an Microscreen installation the perfect fit for your application.



Figure 4. AF-270 Skid Mounted Mobile Unit

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