



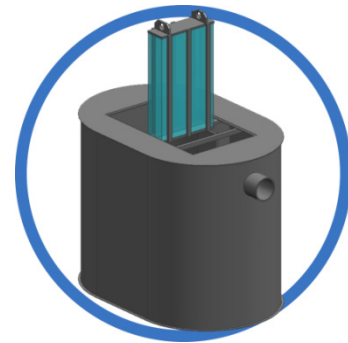
ecoLine-a Operation & Maintenance Guide



The ecoLine-a Oil/Water Separator provides substantial cost savings with minimal construction site labor. Equipped with a removable top panel providing full access to all basic elements, the ecoLine-a is an above grade, durable HDPE separator. Routine cleaning and maintenance are efficient and cost effective, with annual maintenance cost savings ranging from 30% to 50% lower than that of conventional separator systems.

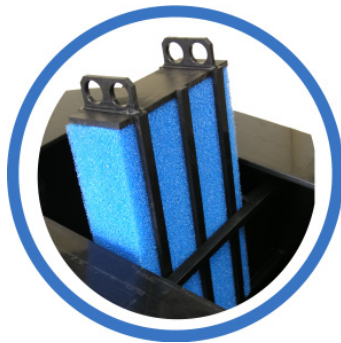
Meeting Tomorrows Standards Today

ecoLine-a provides long maintenance intervals and low waste-disposal costs making it a good investment, while being designed with future standards in mind. The ecoLine-a far exceeds the strict European standards (DIN1999 and EN858) for performance less than 5ppm of free oil, and outstanding independent testing certificates demonstrate that ecoLine-a will provide clean water that exceeds today's environmental standards. ecoLine-a allows for tighter, future environmental discharge compliance guidelines to be met with little or no modification to the system. ecoLine-a combines high efficiency oil/water separation with mobile flexibility. Coalescing media panels provide a large specific surface to support the separation of small oil droplets.



Working Principle

The ecoLine-a oil/water separator is designed to separate non-emulsified light liquids or low water soluble fluids with a specific gravity below 0.95, from effluent discharge. Using a two-step separation process, gravity separation and removal of small oil particles through a coalescing media, produces high removal efficiencies.



Purification Step 1: Gravity Separation

The oil/water separation process relies on the fact that light fluids have a lower specific gravity than water and thus float on the water surface. Sediment and solids begin the separation process after being gravity fed or pumped by a positive displacement or diaphragm type pump through a submerged inlet pipe.

Purification Step 2: Coalescing Media

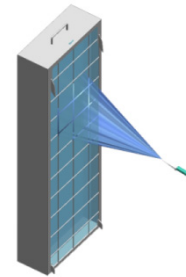
In the coalescing media, which is made of durable reticular (i.e. "net-like") soft polyurethane foam, fine droplets that are too small to be separated by gravity alone are accumulated into larger droplets within the media, and then rise to the surface. The media-cartridge is very easy to lift out and reinstall once it is cleaned/rinsed with a garden hose. The ecoLine-a effluent water has a residual oil content of less than 5 ppm free oils.

Installation

The separator must be installed above grade and leveled on a solid surface. The location for the system should be as close as possible to the source of waste water to be treated, and easily accessed for maintenance. Avoid any chance of mechanically emulsified oil upstream of the separator by using only positive displacement, diaphragm or screw type pumps to avoid extreme mechanical emulsification of oil-laden waste water. The system is designed for use inside a building. Be sure to provide proper venting of the system, and avoid high temperatures and long term exposure to direct sunlight.

Maintenance

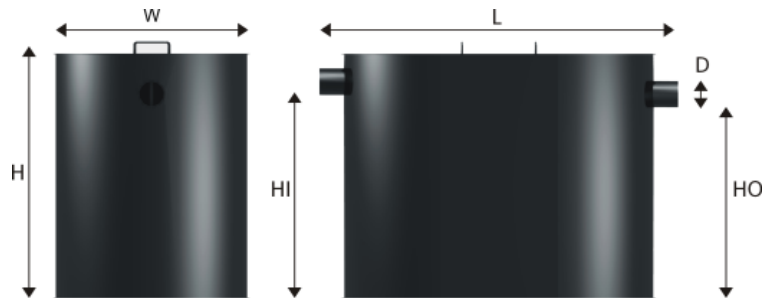
Maintenance of your ecoLine-a will strongly depend on the particular application. We recommend a visual inspection of the system on a weekly basis for the first 60 days of use and increase or decrease maintenance intervals accordingly. The media can be cleaned/rinsed with a garden hose or a power washer set to fan spray. Ideally a filter fabric should be placed over the drain that discharges to the ecoLine. The coalescing media is placed on the filter fabric and back flushed. This greatly reduces the amount of debris being discharge back to the system.



Temperature Range of Operation

41 to 113 degrees Fahrenheit

ecoLine-a Model Sizes



Treatment Flowrate Footprint							
GPM	L (in.)	W (in.)	H (in.)	D (in.)	HI (in.)	HO (in.)	Weight
25	53	32	35	4	25	24	88
50	63	35	43	4	32	30	154
100	73	37	50	6	38	36	220
318	95	64	67	10	48	47	1058
636	131	76	80	12	59	58	1763

Optional Equipment

Automatic Draw-off Device - ecoLine-a separators can be equipped with an Automatic Draw-off Device (ADD) which performs continuous removal of collected oil and storage in an oil recipient, where pure petroleum product is disposed of as needed.