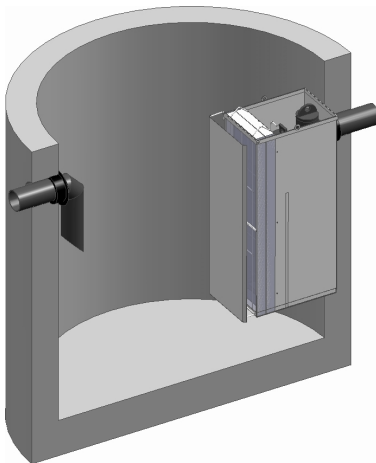
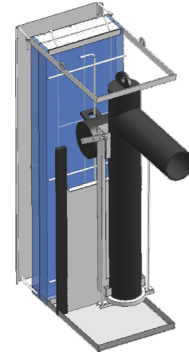




ecoLine-b Operation & Maintenance Guide

Working Principle

The ecoLine-b oil/water separator is designed to separate non-emulsified light liquids 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

Systems are designed with both one and two chambers. A two-chamber system utilizes an upstream grit chamber, which removes solids from the influent, thus ensuring unimpeded functioning of the oil separator. The grit chamber also compensates for influent temperature fluctuations, influent oil concentrations influxes and initializes the separation of light fluids.

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 separated water that leaves the ecoLine-b has a residual oil content of less than 5 ppm of free oils.

Spill Control

The automatic shut-off valve closes the outlet pipe when the maximum oil storage capacity (9 inches oil depth) is reached.

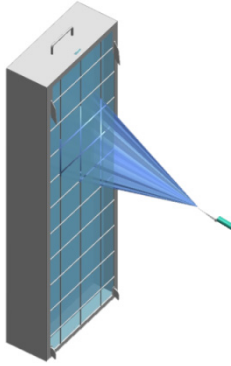
Placing into Service

Before the ecoLine-b is operational, the system **MUST** be filled with clean water. Remove all foreign debris from installation, such as soil and mortar prior to filling with clean water.

IMPORTANT: Fill the separator via the grit chamber until the separation chamber is full and water leaves the separator through the outlet structure. Make sure that the spill control valve is secured in an open position. The separator is now ready for operation.

Maintenance

Maintenance of your ecoLine-b will strongly depend on the particular application. We recommend a visual inspection of the system on a weekly basis for the first month of use and increase or decrease maintenance intervals according to the site conditions.

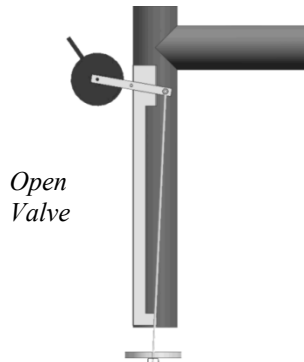


Grit Chamber Maintenance – Remove sludge and oil from the system periodically.

Separation Chamber Maintenance – Remove accumulated oil on a regular basis. Visual inspection of the separate oil should be removed when the oil loading has created a uniform layer of light liquids ($\leq 1/2$ " depth).

Coalescing Media Maintenance – The coalescing media cartridge needs periodic cleaning, and maintenance intervals depend on the site loadings, so check the condition of the media weekly during the first 60 days of operation. 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.

Spill Control

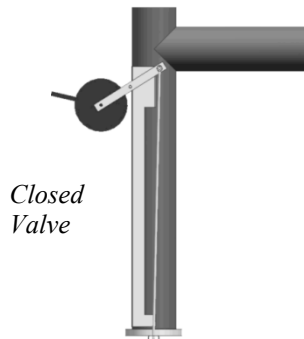


Open Valve

ecoLine-b separators are equipped with a spill control mechanism in the outlet pipe. The calibrated float will lose buoyancy in the accumulated oil, hence closing off the outlet pipe of the separator. The valve will completely close in a spill event that creates an oil layer of ± 9 inches (specific gravity dependent).

In the event of a spill, remove the accumulated oil from the system and fill the unit with clean water.

To reset the valve, pull the stainless steel string of the valve.



Closed Valve

Optional Equipment

Oil Level Sensors – ecoLine-b separators can be equipped with an optional oil level sensor, which activates an alarm once the maximum oil storage capacity of the system is reached.