

ECOSEP XL NS40

HIGH PERFORMANCE-COST
EFFECTIVE BELOW GROUND OIL
WATER SEPARATION

PRODUCT OVERVIEW
INSTALLATION MANUAL
OPERATION & MAINTENANCE



WORKING PRINCIPLE

The ecoSep XL oil water separator is designed to separate free non-water-soluble light with a maximum specific gravity of 0.95 from water (petroleum byproducts such as gasoline, diesel and other mineral oils).

ecoSep XL does not separate

- Mechanically or chemically emulsified oils
- Vegetable oil or animal fat
- Solid Grease

The following kind of influent must NOT be treated with the separator:

- Flow rates exceeding the design flow rate of the system.
 - Substances, which could impede proper function (large quantities of suspended particles etc.)
 - Detergents and cleaning agents that form stable emulsions.
 - Wastewater inflows that are still influenced by pump, agitator or vibrator movements.
 - Wastewater containing chlorides
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- For pH values not within the range from 6 to 8, detailed water analysis need to be provided.



Grit Trap

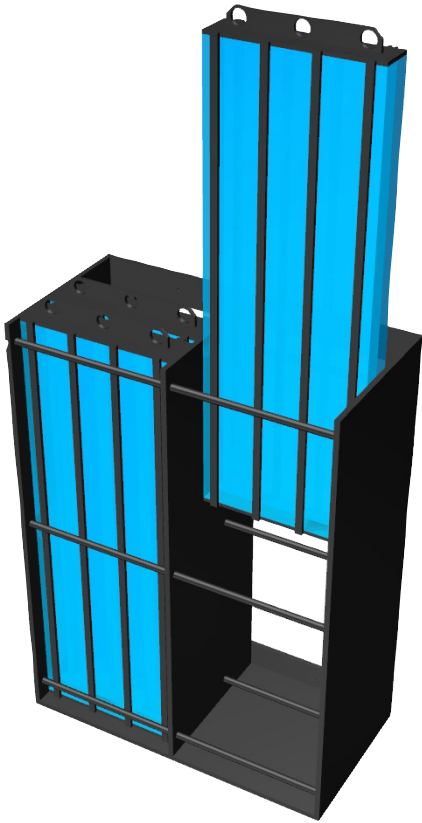
The grit chamber removes solids from the influent, thus ensuring unimpeded functioning of the oil separator itself. The grit trap can be the first concrete tank of a standard two-tank design, or part of a combined single tank solution (grit chamber and separation chamber). The grit chamber also compensates for influent temperature fluctuations, influent oil concentration influxes and initializes the separation of light fluids.

Gravity Separation

Being lighter than water, the oil floats on the surface. ecoSep XL oil water separator can separate light liquids that have a specific gravity below 0.95.

Coalescing Media

In the coalescing media, fine droplets that are too small to be separated by gravity alone are accumulated into bigger drops that rise to the surface. This coalescing media is made of reticular (i.e. "net-like") soft polyurethane foam. The media-cartridge is very easy to lift out and reinstall once it is cleaned/rinsed with a garden hose. The separated water that leaves the ecoSep XL oil water separator has a residual contamination of free petroleum content of less than 5 mg/liter (5ppm).



Over time, UV radiation and sun light will degrade the coalescing media. It is, therefore, strongly recommended that the media inside the cartridges not be left outdoors for extended periods of time after cleaning. Some exposure to UV radiation and sunlight will not harm the system.

Manual or Automatic Oil Draw-Off Device (ADD)

Separators without an oil draw-off accumulate light fluids in direct contact to the water surface. Increasing emulsification at the oil/water interface is the result. Those stable emulsions, which can no longer be separated by a physical method, would leave the separator.

Our patented automatic oil draw-off device (ADD), which has to be connected to an external, pure oil tank, solves that problem. This ADD constantly removes accumulated light fluids from the water surface and stores them in the oil recipient. The collected oil, is free of any water and the costly disposal of large quantities of oil and water mixtures is eliminated.

MAINTENANCE

General

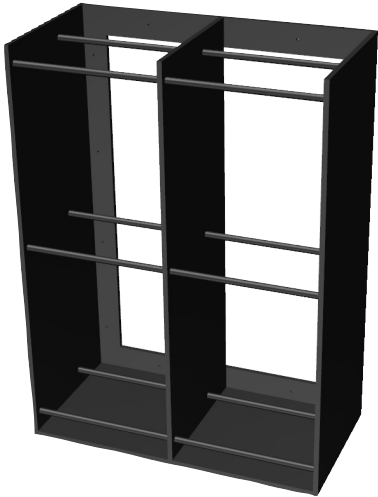
Maintenance of your ecoSep XL NG40 unit will strongly depend on the particular application. We recommend to visually inspect the system on a weekly basis in the first month of use and to increase or decrease maintenance intervals accordingly.

Maintenance of the enhanced coalescing media

The enhanced coalescing media cartridge has to be cleaned periodically. Since the maintenance intervals strongly depend on each particular application, check the condition of the permanent filter element weekly during the first 60 days of operation.

The filter media can be cleaned/rinsed with a garden hose. Recycle the wash-water to the separator.

INSTALLATION AND PUTTING INTO SERVICE

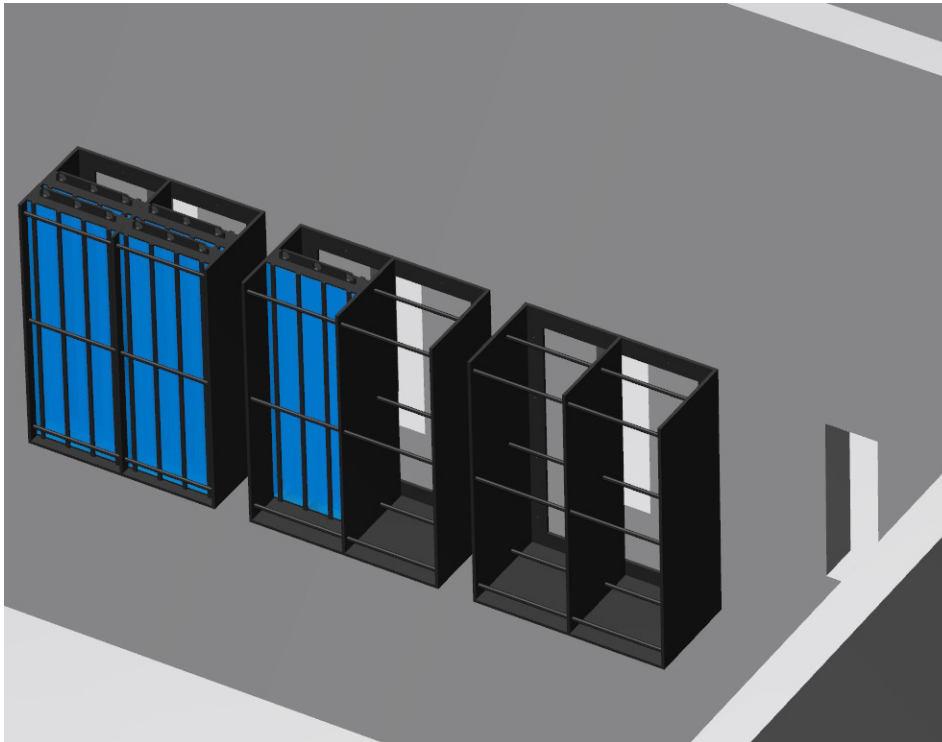


ecoSep XL NG40 Frame

Pull out the filters to access the bore-holes in the back panel of the ecoSep XL NG40. Direct the frame towards to the new built wall with the four holes and align it to one hole. Use the holes in the back bord as a template to drill anchor holes using a 6.8mm masonry drill bit to desired depth. Then insert anchors and secure.

If you have secured all 12 anchors reinsert filters.

Before the ecoSep XL NG40 is put into service, the tanks must be filled with clean water. Any material left behind from installation (e.g. mortar, soil,...) must be removed prior to filling the tanks with fresh water.



Installation - Wall Mounted

MAINTENANCE SHEET

Installation site:		EcoSep XL Model no.:		
Date	Depth of grit chamber [inch]	Thickness of oil layer in separation chamber [inch]	Description of maintenance performed	Signature



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Illustrations may differ from the original.
Version 07/2022: Subject to errors, technical changes and typographical errors.

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