

OIL SEPARATOR

RoSep

TEHNICAL DATA SHEET / 7300072780

Document number : 34.1 / 2021



PRODUCT DESCRIPTION

RoSep oil separators are used everywhere where there is possibility that mineral oils will come into rivers, streams, lakes or nature.

Inside the oil separator, a coalescent filter is installed. Coalescent filter serves to purify meteoric waste water up to 5 mg/l of the mineral oil content at the outlet. Automatic closure device at the outlet prevent the extraction of mineral oils from the oil separator into the environment.

The integrated measuring point on the oil separator allows easy sampling for the needs of measurements of the concentration of the mineral oil content at the outlet.

Oil separators are made of nature friendly polyethylene (PE), which can be 100% recycled after use.

It is dimensioned and tested according to the standards SIST EN 858 – 1 and SIST EN 858 – 2.

TEHNICAL DATA RoSep NS 40 S-I-P

Technical data	Values
Nominal flow	40 L/s
Total volume	10000 L
Settler volume	4560 L
Oil separator volume	4250 L
Maximum oil amount	1910 L
Installation	Underground installation
Dimension L x D x Hmin - Hmax	3040 x 2310 x 2350 - 2850
Diameter of revision openings	Φ 600, Φ 800 [mm]
Material	Polyethylene [PE]
Inflow and outflow pipe diameter	DN 250
Oil content at the outlet	< 5 mg/L – I. Class
Standard	SIST EN 858-1, SIST EN 858-2
UV resistant material	Yes
Coalescent filter	Yes
Cover	PE walk - on cover
Water outflow	To surface or ground water

ROSEP OIL SEPARATOR ADVANTAGES

- High cleaning efficiency
- Simple and cheap maintenance
- Long life service
- Fast and simple installation
- Integrated sample point ϕ 250
- Revision opening Φ 600 and Φ 800
- Easy acessable coalescent filter
- Calming inlet pipe
- Automatic closure device
- Slovenian product

CLEANING EFFICIENCY

Cleaning efficiency:

Total hydro carbons:

2,7 mg / L

Cleaning efficiency checked (Report no.: 113 – 10 / 4433 – 10 / 1 – IS) by the institute:

Institute for health care Maribor, Prvomajska 1, 2000 Maribor



MECHANICAL RESISTANCE AND STABILITY

Mechanical resistance and stability checked (Report no.: P 0865 / 12 – 680 - 2) by the institute:

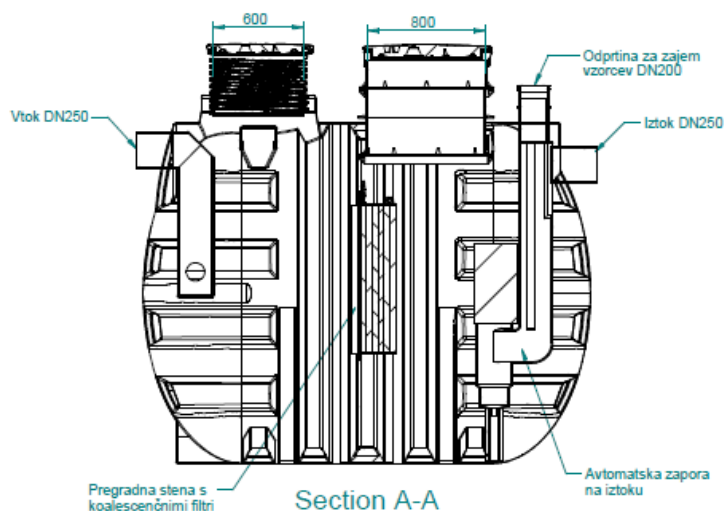
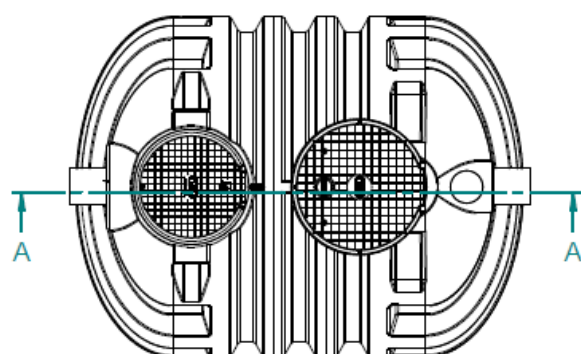
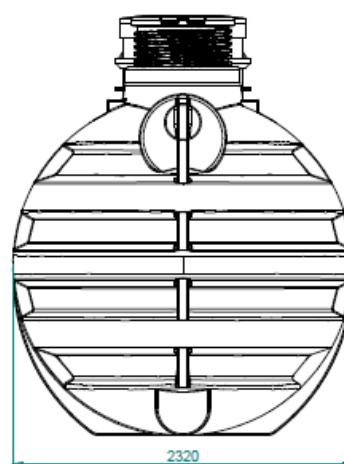
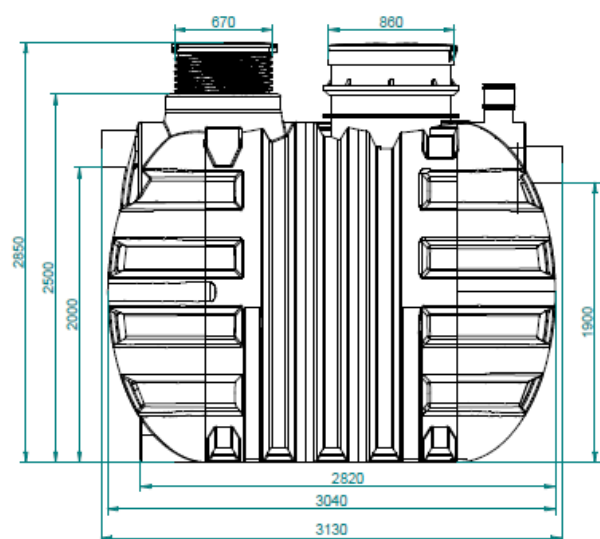
Slovenian national building and civil engineering institute, Dimičeva ulica 12, 1000 Ljubljana



WATERTIGHTNESS

Watertightness checked (Report no.: P 0865 / 12 – 680 – 1) by the institute:

Slovenian national building and civil engineering institute, Dimičeva ulica 12, 1000 Ljubljana



Section A-A

ADDITIONAL INFORMATIONS

INSTALLATION

The installation of the RoSep is easy and fast, and without need for heavy machinery. To install the oil separator, excavate the pit, install the oil separator and fill with the water at the same time. Connect it with the inflow and the outflow pipes (DN 250 connections).



Instructions for
installation

Oil separators can be installed by Roto experts. Installation must be made according to the general instructions accessed on the QR code.

OPERATION

Water contaminated with oil, fats and other sludges flows into the first chamber, whereby the inlet tube takes care of the calming the water. The sedimentary chamber has the function of a sludge trap, sand, fine sludge and other rough dirt. The larger oil droplets rises to the level in the sedimentary chamber, while the remaining water contaminated with small droplets of oil flows through the coalescent filter. In the second chamber the remaining oil is risen to the surface. The purified water of light liquids from the second chamber drains through the outflow pipe to the drainage system, thus protecting the nature against potential pollution.

MAINTENANCE

The control of the oil separator should be carried out in accordance with the procedure and must be written in operating diary. Control must be made after every major rainfall and a longer dry season. Checking the oil trap includes checking the amount of sewage sludge and floating oil on the surface.

Maintenance of the oil trap involves removing sludge, floating oil and cleaning the components of the device. The maintenance period shall be determined on the basis of the actual load at the initial stage of operation. Cleaning of the device should be carried out by the authorized person who ensures that the wastes is handled in accordance with the legal regulations.

COALESCENT FILTER AND AUTOMATIC CLOSURE DEVICE

The coalescent filter is installed in the PE housing in the chamber wall. Greater droplets of oil float on the surface due to the lower density of water. Small droplets that did not raise in the first chamber, flows through the coalescent filter and join into larger droplets, thereby increasing their volume and buoyancy, which contributes to the remaining part of the oil rising to the surface.

The filter is attached to the removable housing, which is easily pulled over the guides of the chamber wall from the oil separator. Coalescent filter can be cleaned with a high pressure cleaner.

The automatic closure device is installed in the second chamber. The automatic closing mechanism closes automatically in the event of an exceeded maximum oil level in the separator.



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