

# floaty

Floating oil separator with integrated basket  
for the collection of floating trash

for Marinas, Harbours & Fuel stations for boats



- World-novelty** FLOATY was developed by the Austrian family company FREYLIT and represents a world-novelty for the protection of our waters.
- Cost-saving** FLOATY does not need any oil binding agents and cleans up every oil spill many times faster and cheaper than conventional methods.
- Durable** FLOATY is working for you for at least 20 years.
- Efficient** FLOATY works consistently, regardless of the oil concentration.
- Timesaving** FLOATY prevents oil streaks from spreading over large areas.
- Economically** FLOATY continuously sucks up oil streaks and floating garbage on the water surface.
- Mobile** FLOATY is light and mobile, so it can be transported quickly and easily to any location.
- Ecologically** FLOATY ensures that bodies of water remain clean and that the habitat of aquatic life is preserved.

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## COMPANY PROFILE

FREYLIT is an International Austrian company providing technology solutions since 1983 to protect bodies of water worldwide. The patented FREYLIT technology for MINERAL - & RESIDUAL OIL SEPARATOR out performs all conventional oil separation systems on the world market. Freylit oil separators can be used for a wide variety of applications, including mobile systems for cleaning up oil spills. Over 20,000 FREYLIT oil - water separators are already in use worldwide. With in-house developed SOFTWARE, FREYLIT precisely calculates the required size of oil separators. Agip, Aral, BP, Emarat, ENI, ENOC, Eppco, Exxon, Mobil, OMV, Q8, Shell, Texaco & many others rely on the technology from FREYLIT.



The most efficient  
Oil Water Separators

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Floating oil separator with integrated dirt basket for the collection of floating garbage



Floating oil separator with integrated dirt basket for the collection of floating garbage

## TECHNICAL DESCRIPTION

The floating oil separator is a compact, low-maintenance system for preventing oil from spreading on water surfaces in the event of oil accidents at marinas, harbours & Fuel stations for boats.

### Functionality

The system including all components is equipped with side floats so that it is stable in the water. The submersible pump in the system's clean water chamber creates a surface current that sucks the polluted water into the system.

### 1. FREYLIT Flap-skimmer

The water surface is sucked into the floating oil separator for cleaning via the FREYLIT flap skimmer. As a result, floating garbage, a layer of oil and oil streaks are quickly removed from the water surface and can therefore not spread.

### 2. Separation of garbage

Garbage floating on the surface of the water is collected in the dirt basket. This can be removed for emptying.

### 3. Separation of oil

The wastewater then flows into the oil water separator section of the separator. In this area, large oil droplets rise immediately and quickly to the oil collecting layer (separator surface) due to the specific weight of the oil. Then the water, in which still oil droplets are present, flows into the residual oil separator part of the separator.

For the separation of the residual oil, horizontal oleophilic, non-corroding, corrugated plates made of Polypropylene (PP) are used, which are stacked on top of each other at distance of 6mm (cast spacers). As a result, an oil droplet only needs to rise 6 mm to touch a corrugated plate. If a drop of oil touches a corrugated plate, it sticks to it and is already considered separated. Due to its specific weight, it rises along the corrugation plate up to the crest of corrugation. The oil collected in the crest of the corrugation reaches the oil collecting layer (separator surface) via bore holes in the crest of the corrugation (15 mm).

### 4. Oil level measurement

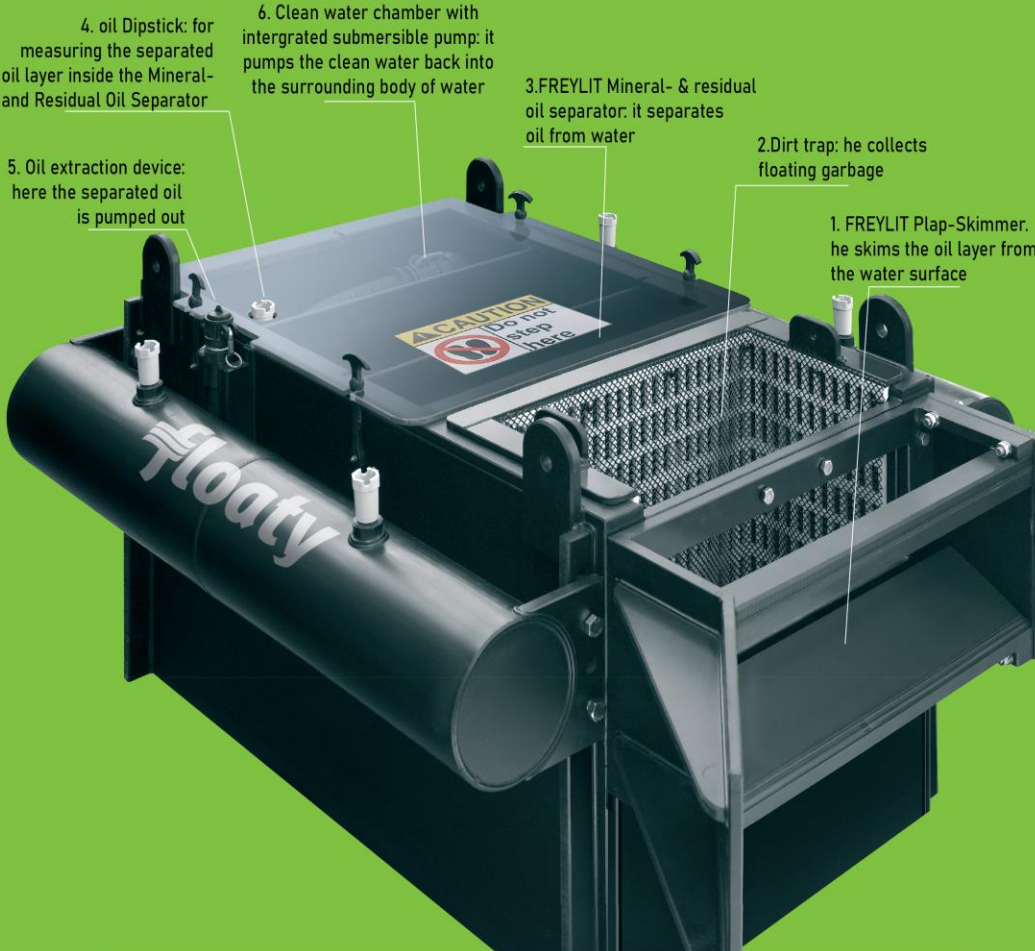
An oil dipstick for measuring the oil level is built into the residual oil separator part of the separator, after the corrugated plate packs. The oil level in the residual oil separator must be measured from time to time with the dipstick.

### 5. Oil extraction device

When the oil level in the separator reaches 15 cm, the separated oil must be pumped out via the oil extraction device into an oil container (oil drum). A weir in the outlet of the oil separator prevents oil from escaping from the oil-collecting layer into the clean water chamber of the system in which the submersible pump is installed.

### 6. Cleaned water

The cleaned water (from garbage and oil - oil outlet concentration below 5 mg/l - based on free, undissolved and unstably emulsified oil components) is pumped back into the surrounding body of water by the submersible pump from the clean water chamber. The water outlet is located on the bottom of FLOATY.



## FREYLIT KNOW-HOW

### Technology

- All FREYLIT oil separators are based on the same technology using special oleophilic, non-corroding, corrugated coalescing plates.

- The FREYLIT Flap-skimmer is the most efficient technology for skimming oil from water surfaces.

### Key benefits

- Most efficient oil-water separation worldwide
- 4x more efficient than conventional oil separators
- 4x smaller than conventional oil separators
- Separation of oil droplets down to 15 micron
- Oil outlet concentration below 5 mg/l
- Significant cost savings
- Virtually no maintenance
- Lifetime up to 36 years