

OIL SEPARATORS

What is an oil separator?

An oil separator is a compact device that removes oil from water. The dimensions of the oil separators are calculated according to oily water flow.

The separated oil from water are collected inside the separator in a compartment as the water is discharged into the effluent lines.



Features

- Made from Stainless Steel, HDPE or Epoxy Coated Steel st37
- Equipped with high quality and unique components
- Easy installation, easy operation and low maintenance
- Excess oil storage and sludge / silt storage are standard features on all our oil separators, standard and automatic models.
- Adjustable weir is installed to control the oil flow level to the internal access oil storage, a standard feature on both manual and automatic models
- Odor protection is a standard feature in all our models. The separators are equipped with a vent which may be connected to a stack and odor removal housing.
- The heater keeps the excess oil at a constant temperature to prevent solidification caused by cold weather. The heater works automatically when the excess oil's temperature drops below 15 C.
- Emptying valves are necessary when the system needs to be flushed.
- Excess oil and screen emptying valves are used to remove the excess oil and sludge when the separator's storage is full.
- Sludge screen removal pump removes the accumulated sludge through the filtration unit by de-watering. The sludge / silt pump works automatically.
- Excess oil pump removes the excess oil from the internal storage
- Excess oil level alarm system notifies the operator of the oil level inside the storage.
- Full protection control electrical board is equipped with various features and options like current protection, heater temperature controls and many more.



Where do you use Oil Separators?

- Food production factories
- Restaurants and cafeterias
- Hotels and holiday sites
- Slaughter houses
- Meat / Fish processing factories
- Car maintenance shops and Garages
- Facilities that use / deal with oil
- Waste water treatment plants
- Power plants

Standards:

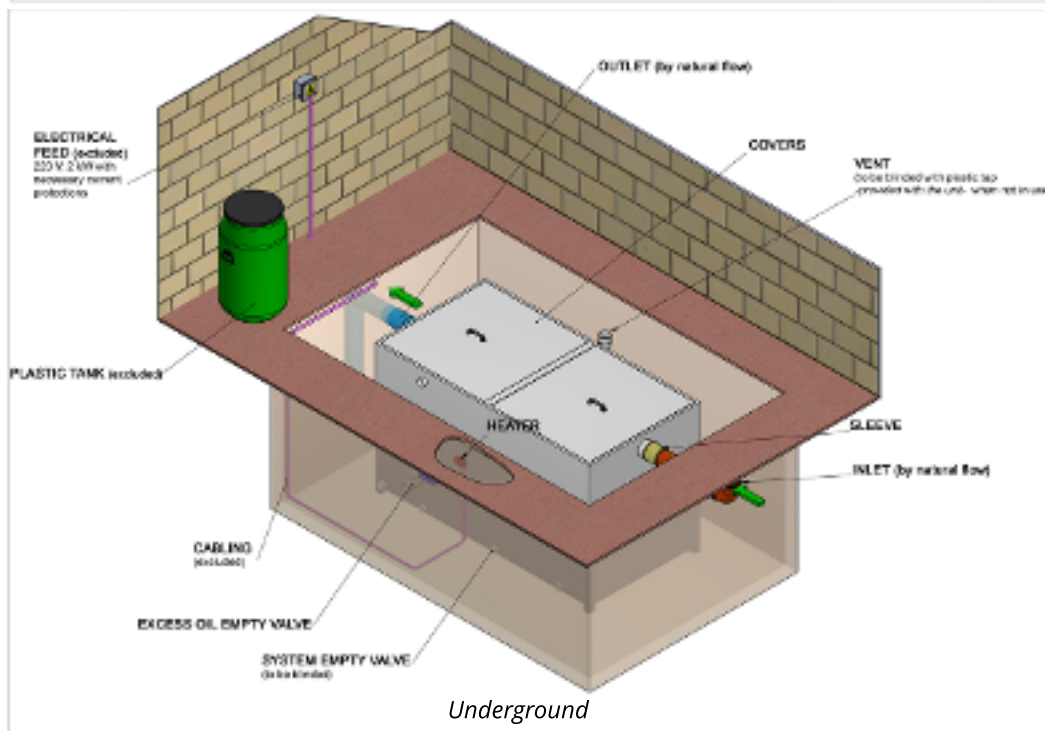
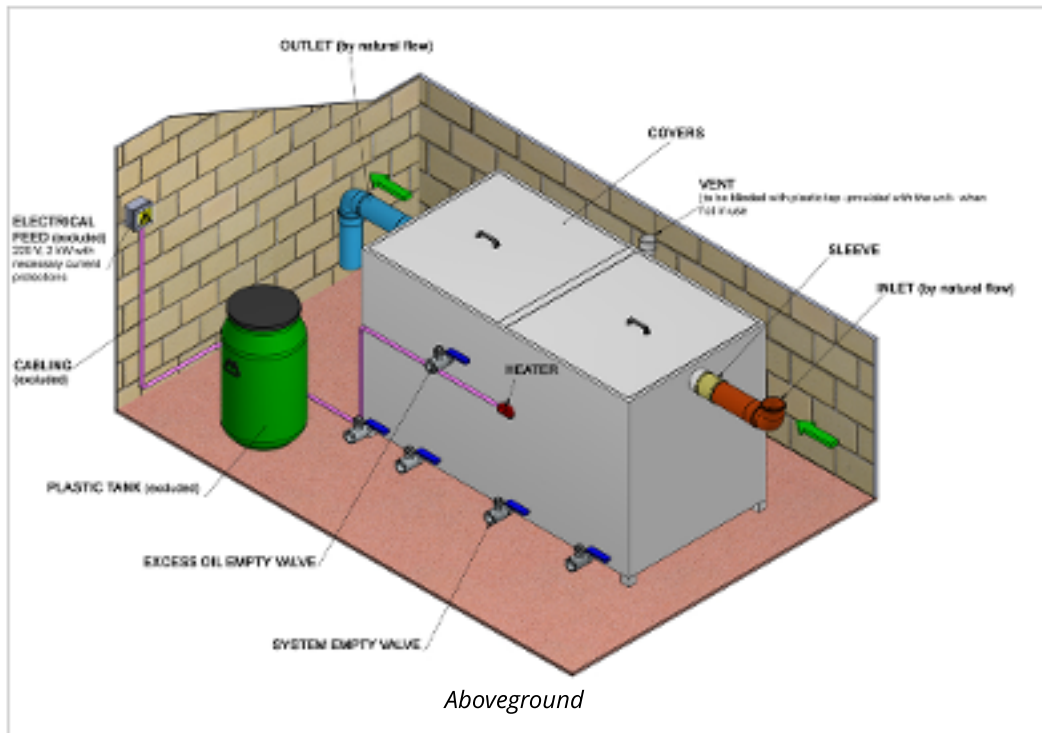
Oil & Grease Separators complies with EN825 -1 and EN825-2 standards



Types & Models

Oil & Grease Separators are designed for maximum efficiency and easy operation & maintenance. Various models are available for specific requirements such as:

- Undercounter Type
- Automatic / Manual
- Aboveground / Underground
- Oil Separators with built-in Pumping Stations



Unique Features

Our products are equipped with unique equipment.

Excess Oil Storage and **Sludge/Silt Storage** are standard in all our oil separators. Standard in Automatic and Manual Models.

Adjustable Weir is used during installation to arrange the oil flow level to the internal excess oil storage. Standard in Automatic and Manual Models.

Odor Protection is taken into consideration in all our design. Our separators are equipped with a **Vent** which may be connected to stack and an **Odor Remover Housing**.

Heater keeps the excess oil at a constant temperatures to prevent solidification due to the climatic conditions. Works automatically when the excess oil temperature drops below 15 C.

OWS Empty Valves are necessary in case the system needs to be emptied.

Excess Oil & Silt Empty Valves are to be used to remove the excess oil and silt when the separator storage is full.

Sludge Silt Removal Pump and Filtration Unit removes the accumulated sludge and the filtration unit de-waters the sludge. The sludge/silt pump works automatically.

Excess Oil Pump removes the excess oil from the internal storage.

Excess Oil Level Alarm System notifies the operator for the oil level inside the storage.

Full Protection Control Board is equipped with various features and optionals from electrical current protection, heater temperature controls and many more.

EQUIPMENT / INSTRUMENTATION

Equipment / Instrument	Automatic Separators	Manual Separators
Removable Silt Screen	S	S
Adjustable Weir	S	s
Excess Oil Storage	S	S
Excess Sludge Storage	S	S
Indirect Oil Heater	S	S
OWS Empty Valves	S	S
Excess Oil & Silt Empty Valves	S	S
Sludge/Silt Removal Pump	S	-
Sludge/Silt Filtration Unit	S	-
Excess Oil Removal Pump	S	-
Excess Oil Level Alarm System	S	O
Full Protection Control Board	S	O

S / Standard

O / Optional

- / NA

Control Unit Features for Automatic Models

**Only applicable for models: ZU (Under Ground)
/ ZA (Above Ground)**

Control Board Features

- 4x20 mAh led screen with LCD panel / color display touchscreen
- Timer system with 90 days reserve
- Current measurement and monitoring every pump and equipment
- showing on/of position and total operation time
- Active and passive options for every pump and equipment
- Maximum protection with Operational Voltage Set feature
- Main voltage measurement with emergency shut down for over or under-voltage
- For each instrument there is a led indicator on the screen
- Digital temperature control for separated oil heater. 'full', 'empty' signals and level detection for the waste oil
- Operational Logging and monitoring on LCD screen
- Contact relays for malfunctions or alert such as; 'full oil', 'fault', 'no network', 'over voltage' for main control systems (i.e. SCADA)
- Log listing for; "Commissioning Date, Serial No., Malfunction History, Last Maintenance Date"
- Set feature for all controls and "Back to Factory Settings" feature
- Alarm with Sound (Buzzer), Light (Led) and in Text (LCD Screen)
- Optional SMS module for text messaging in case of failure or alarm





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