

Take the Best - Separate the Rest



## OSD 2 Mineral Oil Separator

OSD 2-02-137

### Function

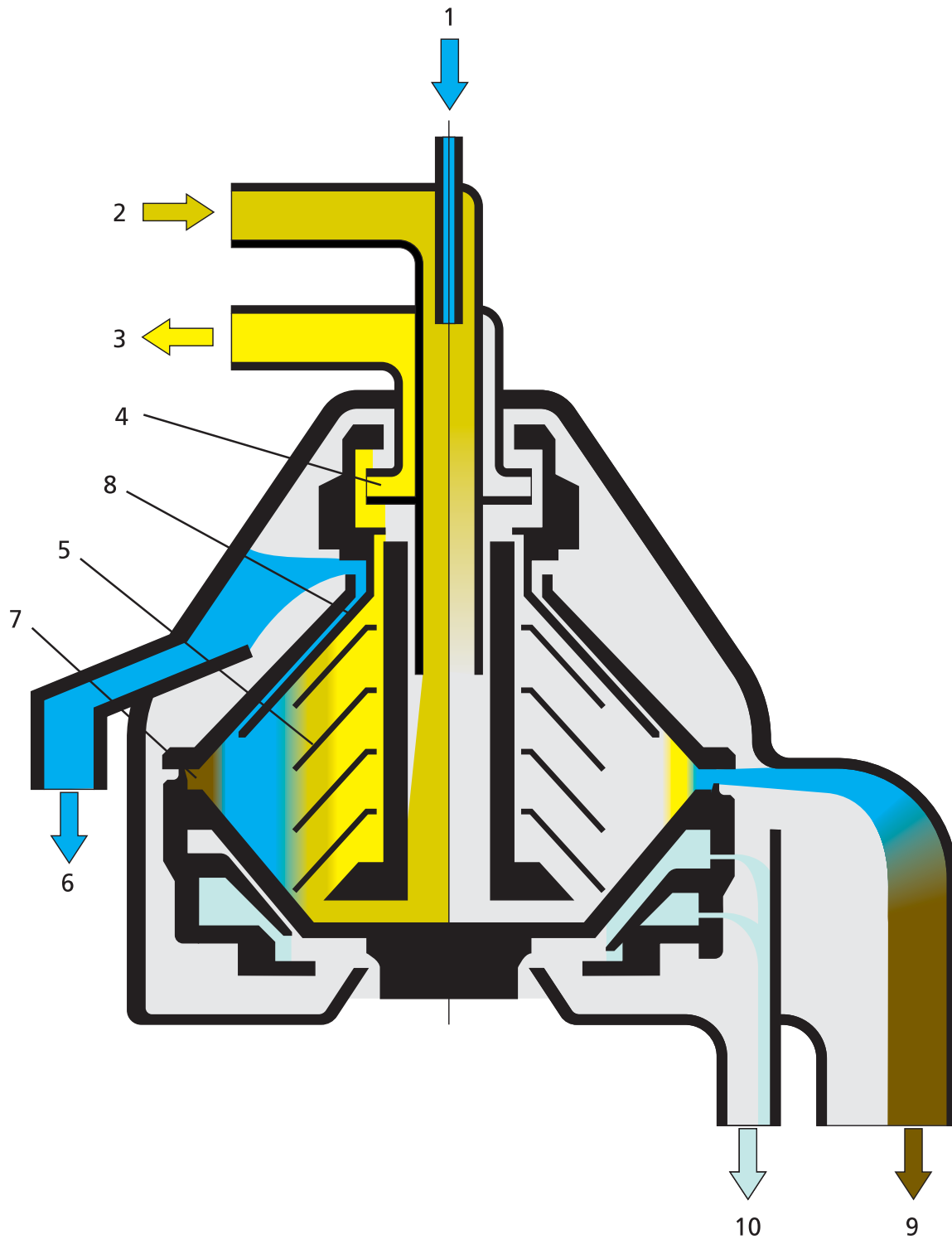
Continuous treatment of fuel and lube oils

### Application

Mainly in shipping, in power stations, industry and oilfield.

minimax

# Operating principles and constructional features



- 1 Filling water
- 2 Product feed
- 3 Light liquid discharge
- 4 Centripetal pump
- 5 Disk stack

- 6 Heavy liquid discharge
- 7 Solids holding space
- 8 Separating disk
- 9 Sludge discharge
- 10 Operating water discharge

This separator is equipped with a self-cleaning bowl which can be optionally used for the clarification of liquids or the separation of liquid mixtures. The product flows through the product feed (2) into the rotating bowl and is clarified or separated in the disk stack (5). The separated heavy liquid phase flows under

gravity out of the bowl at the periphery via separating disk (8). The purified light liquid phase is discharged under pressure at the bowl centre via the centripetal pump (4). The separated solids collect in the sludge space (7) and are ejected automatically at full bowl speed.

## Frame, hood and drive

The separator is delivered in closed design and is equipped with a sight glass for checking the oil level. The hood is detachable. The machine is driven by a three-phase AC motor. The power is transmitted to the bowl spindle via a flat belt. All bearings are splash-lubricated from a central oil bath.

## Materials

Frame:	Grey cast-iron GG-25 Silumin*
Hood:	Silumin
Main bowl parts:	stainless steel
Gaskets:	Buna N

## Features

- Standard motor
- Low-noise
- Lightweight version
- Bowl of stainless steel
- Light phase is discharged under pressure
- Self-cleaning bowl

## Advantages

- Easy installation
- Low maintenance requirement
- Low space requirement (easy retrofitting)
- Easy and fast dismantling for cleaning the bowl

## Standard supply schedule

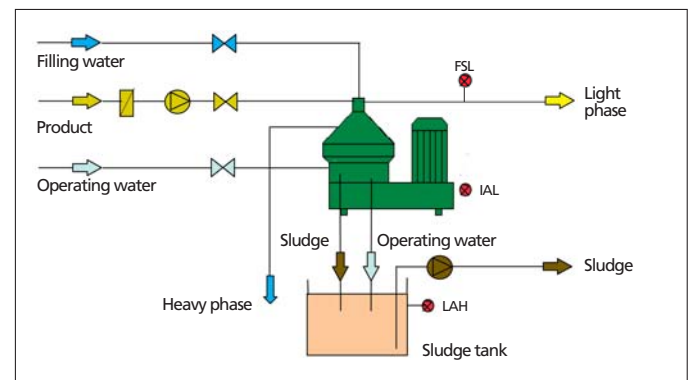
- Three-phase AC motor
- Rubber cushions
- Set of tools
- Set of commissioning parts
- Technical documentation
- Set of regulating rings
- Set of hoses (for feed and discharge)
- Operating, filling and displacement water valve
- Flow meter / flow switch

\* see auxiliary equipment

## Auxiliary equipment (at extra cost)

- Set of spare parts 8,000 hours
- Set of spare parts 16,000 hours
- Control unit for automatic operation
- Strainer
- Feed pump unit
- Product temperature monitoring
- Sludge tank
- Sludge pump
- Low-weight design

## Installation diagram



The product is fed into the centrifuge by means of a pump. The centrifuge is equipped with a self-cleaning bowl and is used for the separation of liquid mixtures with a maximum solids content of 0.1 % (by vol.).

# Technical data



## Technical data

<b>Bowl</b>	
Speed	10.000 min <sup>-1</sup>
Total capacity	1 l
Solids holding space	0.5 l
<b>Three-phase AC motor</b>	
Rating	1.1 kW
Power input	0.8 kW
Speed at 50 Hz	3000 min <sup>-1</sup>
Speed at 60 Hz	3600 min <sup>-1</sup>
Design	IM V1
Enclosure	IP 55
<b>Centripetal pump</b>	
Pressure head, Hd (light liquid phase)	1.0 bar
<b>Connections</b>	
Product feed	: G 1/2 in
Light phase discharge	: G 1/2 in
Heavy phase discharge	: DN 25 (Ø 33.7 mm)
Solids discharge	: DN 50 (Ø 60.3 mm)
Operating, filling and displacement water feed	: G 3/4 in
Operating water discharge	: DN 20 (Ø 21.3 mm)
Max. separating temperature	100 °C

## Weights and case dimensions

<b>Weight</b>	
Separator, complete (Standard version)	70 kg
(Lightweight design)	50 kg
Case dimensions (l x w x h)	640 x 640 x 840 mm
Shipping volume	0.35 m <sup>3</sup>

## Capacities

Diesel oil (< 7.5 cSt)	: 1,150 l/h
Diesel oil (< 15 cSt)	: 900 l/h
Lube oil (mild alkaline)	: 420 l/h
Lube oil (high detergent)	: 320 l/h
Turbine oil	: 1,000 l/h

**GEA** Westfalia Separator  
Mineraloil Systems

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