

Take the Best - Separate the Rest



OSD 2 Mineral Oil Separator

OSD 2-03-137

Function

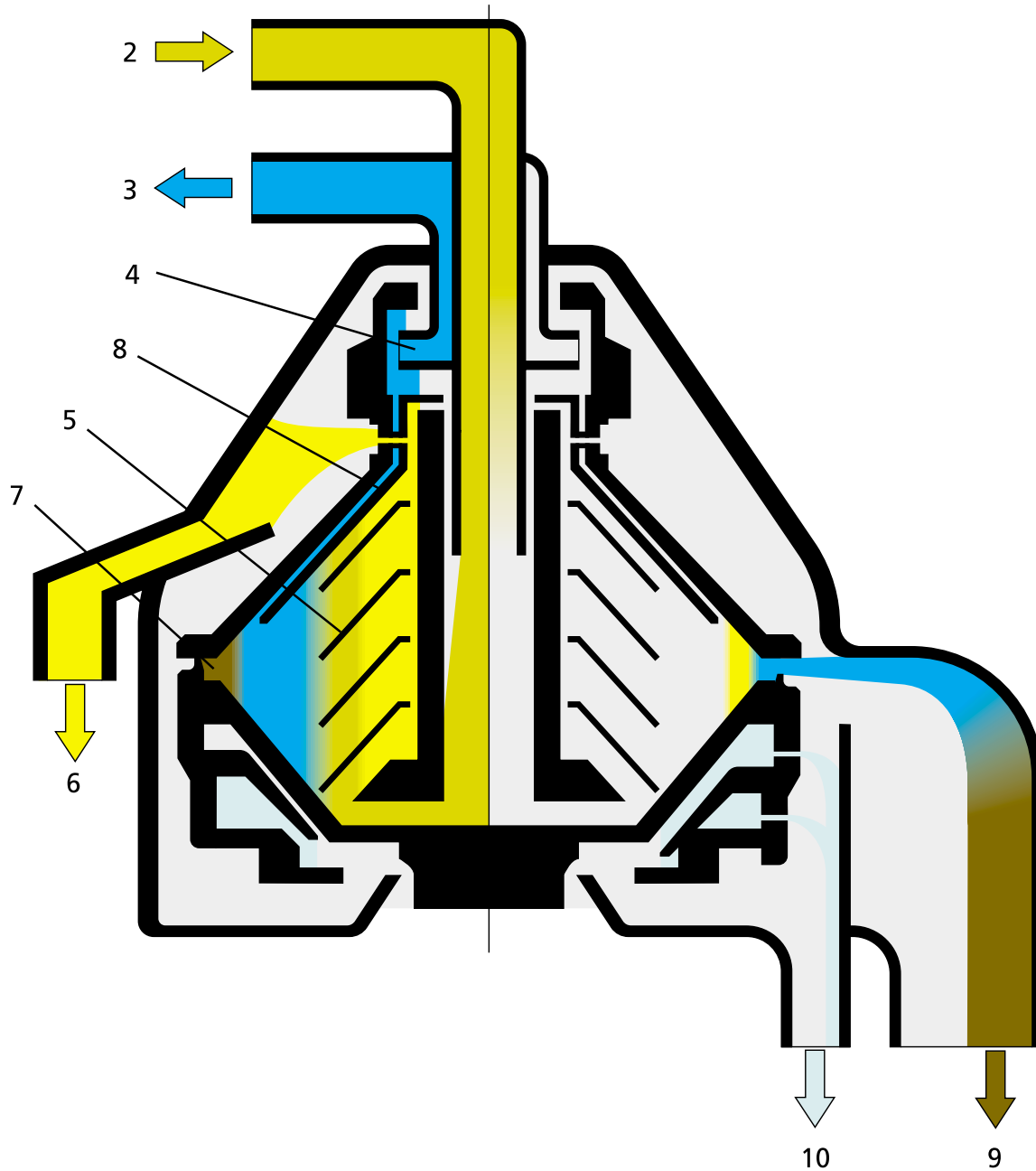
Purification of coolant emulsions and wash water, oil-water mixtures etc.

Application

Automobile industry
Machine building industry
Rolling mills
Disposal companies

minimax

Operating principles and constructional features



- 2 Product feed
- 3 Heavy liquid discharge
- 4 Centripetal pump
- 5 Disk stack
- 6 Light 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 for the separation of liquid mixtures. The product flows through the product feed (2) into the rotating bowl and is separated in the disk stack (5). The separated and purified heavy liquid phase is conveyed at the periphery via the separating disk (8)

to the centre and discharged under pressure via the centripetal pump (4). The light phase (6) flows out of the bowl under gravity. 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
- The heavy 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

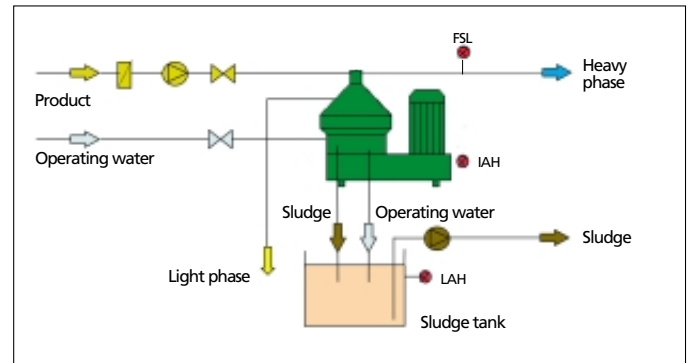
- Three-phase AC motor
- Rubber cushions
- Set of tools
- Set of commissioning parts
- Technical documentation
- Set of regulating rings
- Set of hoses (for feed and discharge)
- Operating, filling and displacement water valve
- Flow meter / flow switch

* see auxiliary equipment

Auxiliary equipment (at extra cost)

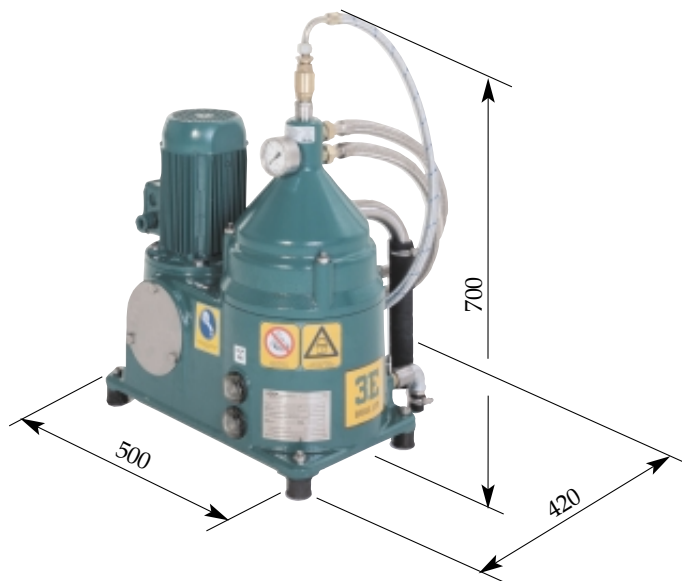
- Set of spare parts 8,000 hours
- Set of spare parts 16,000 hours
- Control unit for automatic operation
- Strainer
- Feed pump unit
- Sludge tank
- Sludge pump
- Low-weight design

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

Bowl	
Speed	10,000 min ⁻¹
Total capacity	1.0 l
Solids holding space	0.5 l
Three-phase AC motor	
Rating	1.1 kW
Power input	0.8 kW
Speed at 50 Hz	3000 min ⁻¹
Speed at 60 Hz	3600 min ⁻¹
Design	IM V1
Enclosure	IP 55
Centripetal pump	
Pressure head, Hd (light liquid phase)	1.0 bar
Connections	
Product feed	: G 1/2 in
Heavy phase discharge	: G 1/2 in
Light phase discharge	: DN 25 (Ø 33.7 mm)
Solids discharge	: DN 50 (Ø 60.3 mm)
Operating water feed	: G 3/4 in
Operating water discharge	: DN 20 (Ø 21.3 mm)
Max. separating temperature	100 °C

Weights and case dimensions

Weight	
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 ³

Capacities

Coolant emulsion	: 300 l/h
Wash liquid	: 250 l/h

GEA Westfalia Separator
Mineraloil Systems

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