

Mineral Oil Separator OSD 2-02-137

Technical Data | Continuous treatment of fuel and lube oils, hydraulic, diesel, turbine and waste oils, etc.



Frame, hood and drive

This separator is equipped with a self-cleaning bowl which can be optionally equipped for the clarification of liquids or the separation of liquid mixtures with simultaneous solids removal. The dirty liquid flows through the product feed into the rotating bowl and is clarified or separated in the disk stack. The separated heavy liquid phase flows under gravity out of the bowl at the periphery via separating disk. The purified light liquid phase flows inwards and is pressure discharged by the centripetal pump. The separated solids accumulate in the

solids holding space and are ejected automatically at full bowl speed, at pre-determined intervals.

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 3-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 of construction

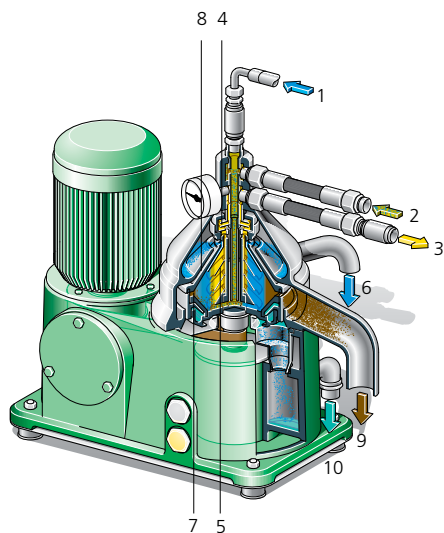
Frame:	Grey cast-iron GG-25
Hood:	Silumin
Main bowl parts:	Stainless steel
Gaskets:	NBR

Features

- Standard motor
- Low-noise
- Low weight
- Bowl of stainless steel
- Light phase discharged under pressure
- Gravity discharge of heavy phase
- Self-cleaning bowl
- Easy conversion into clarifier

Technical Data OSD 2-02-137

Operating principles and constructional features



- 1 Filling and displacement water
- 2 Product feed
- 3 Discharge light liquid phase
- 4 Centripetal pump
- 5 Disk stack
- 6 Discharge heavy liquid phase
- 7 Solids holding space
- 8 Separating disk
- 9 Solids discharge
- 10 Operating water discharge

Standard equipment

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

Additional equipment

(available at extra cost)

- Set of spare parts for 8000/16,000 operating hours
- Control unit for automatic operation
- Each separator is also available as ready-to-connect compact unit, including accessories

Applications

- Shipping and power plants
- Metal working industry
- Automotive industry
- Steel and paper industry, etc.

Technical data	
Bowl	
Speed	10,000 rpm
Total volume	1 l
Solids holding space	0.5 l
3-phase AC motor	
Power consumption	0.8 kW
Rating at 50 Hz/60 Hz	1.1 kW/1.3 kW
Speed at 50 Hz/60 Hz	3000 rpm/3600 rpm
Enclosure	IP 55
Centripetal pump	
Discharge pressure, light liquid phase	1.0 bar
Connections	
Product feed, discharge light phase	G ½ in
Heavy phase	DN 25 (Ø 33.7 mm)
Solids discharge	DN 50 (Ø 60.3 mm)
Operating, filling and displacement water feed	G ¾ in
Operating water discharge	DN 20 (Ø 21.3 mm)
Max. separating temperature	100 °C/212 °F
Weights and shipping data (Separator, complete)	
Standard design	70 kg (154 lb)
Low-weight version	50 kg (110 lb)
Case dimensions (L x W x H)	640 x 640 x 840 mm (25 x 25 x 33 in)
Shipping volume	0.35 m³

Dimensions in mm (inch)



A	B	C
500 (20)	420 (17)	700 (28)