

Separator OTC 5-01-037 / 10-01-037 / 20-01-037

Technical Data | Clarification or purification of cooling lubricants, washing liquids, oil water mixtures, lube oil, fuel oil, waste oil, etc.



Frame, hood and drive

This separator is equipped with a solid-wall bowl for clarification of liquids or purification of liquid mixtures with simultaneous removal of solids. The product enters the rotating bowl through the product feed and is separated in the disk stack. The separated and purified light and heavy liquid phases flow outwards over the separating disk and are discharged under pressure by the centrifugal pumps. The separated solids collect in the solids holding space and must be removed by hand.

The separator of enclosed design is equipped with an oil level sight glass. The hood is removable. The machine is driven by a 3-phase AC motor. Power is transferred to the bowl spindle via a flat belt. All bearings are splash-lubricated from a central oil bath.

Materials of construction

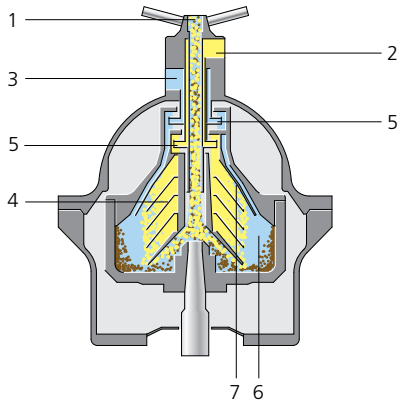
Frame:	Grey cast-iron
Hood:	Grey cast-iron
Main bowl parts:	Stainless steel
Gaskets:	NBR

Features

- Standard motor
- Low-noise version
- Light weight
- Bowl of stainless steel
- Heavy and light phase discharged under pressure
- Easy conversion into clarifier

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Operating principles and constructional features



- 1 Product feed
- 2 Discharge light liquid phase
- 3 Discharge heavy liquid phase
- 4 Disk stack
- 5 Centripetal pump
- 6 Solids holding space
- 7 Separating disk

Standard equipment

- 3-phase AC motor
- Rubber cushions
- Set of tools
- Set of commissioning parts
- Set of regulating rings
- Set of hoses (for feed and discharge)
- Technical documentation

Additional equipment

(available at extra cost)

- Set of spare parts for 8000/16,000 operating hours
- Conversion set for clarifier
- Stainless steel hood
- Flow indicator
- Each separator is also available as ready-to-connect compact unit, including accessories

Applications

- Automotive industry
- Disposal companies
- Engineering works
- Steel mills
- Oil and gas industry
- Power plants
- Shipping industry
- Steel rolling mills, etc.

Technical data	OTC 5	OTC 10	OTC 20
Bowl			
Volume	2.2 l	3.4 l	5.1 l
Solids holding space	1.6 l	2.5 l	3.5 l
3-phase AC motor			
Power	4 kW	4 kW	7.5 kW
Normal absorbed power	1.5 – 2.5 kW	2 – 3 kW	4.5 – 5.5 kW
Speed at 50 Hz/60 Hz	3000/ 3600 rpm	3000/ 3600 rpm	3000/ 3600 rpm
Design	IM V1	IM V1	IM V1
Enclosure	IP 55	IP 55	IP 55
Centripetal pump			
Pressure head of light phase	1 – 2 bar	1 – 2 bar	1 – 2 bar
Pressure head of heavy phase	1 – 2 bar	1 – 2 bar	1 – 2 bar
Connections			
Feed	R 1 in	R 1 in	R 1 in
Discharge light/heavy phase	R 1 in / R 1 in	R 1 in / R 1 in	R 1 in / R 1 in
Frame drain	DN 40 (ø 48.3 mm)	DN 40 (ø 48.3 mm)	DN 40 (ø 48.3 mm)
Separating temp., max./min.	100/5 °C, 212/41 °F	100/5 °C, 212/41 °F	100/5 °C, 212/41 °F
Weight and shipping data	OTC 5	OTC 10	OTC 20
Separator, complete	150 kg (331 lb)	200 kg (441 lb)	315 kg (694 lb)
Case dimensions in mm (inch) (L x W x H)	1000 x 600 x 1000 (39 x 24 x 39)	1280 x 700 x 1030 (50 x 28 x 41)	1300 x 870 x 1030 (51 x 34 x 41)
Shipping volume	0.6 m ³	1 m ³	1.2 m ³

Dimensions in mm (inch)

A	643 (25)	687 (27)	815 (32)
B	341 (13)	450 (18)	466 (18)
C	791 (31)	920 (36)	1035 (41)

