

Separator RSE 300-01-777

Technical Data | Degumming, neutralization, washing, winterization, fractionation of vegetable or animal oils and fats



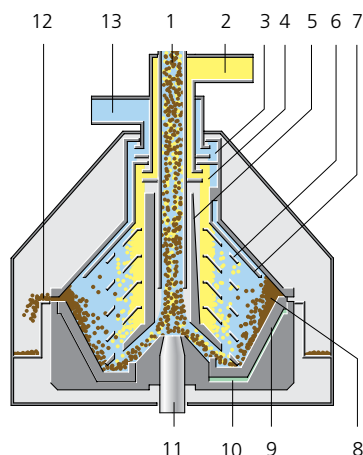
This separator has been designed for use in the edible oil industry. The product is fed into the bowl through a closed-line system with hydrohermetic feed. The light liquid phase (clean oil) is discharged foam-free under pressure by a centripetal pump. The heavy liquid phase (soap-stock or gums) is discharged by the GEA Westfalia Separator finetuner. The separated solids are collected in the solids holding space and are ejected at preset intervals through ports. Partial and total ejections are possible. The self-cleaning bowl makes the machine suitable for fully automatic cleaning-in-place (CIP).

Design features

- Self-cleaning disk type bowl
- Opening and closing hydraulically by a sliding piston to discharge the collected solids
- Frame made of cast iron
- Machine driven by a 3-phase AC motor designed for operation via frequency converter
- Short spindle drive for quiet vibration free operation
- Flat belt drive without intermediate clutch
- Automatic lubrication system with suction pipe and oil pan
- GEA Westfalia Separator finetuner adjustment for optimizing separation zone during operation
- Hydrohermetic feed
- Vapor seal in distributor inlet chamber
- Bowl flush for feeding liquid
- All parts coming into contact with the products and ejected solids made of Cr-Ni-Mo stainless steel
- Bowl gaskets made of NBR, main bowl gasket made of polyamide

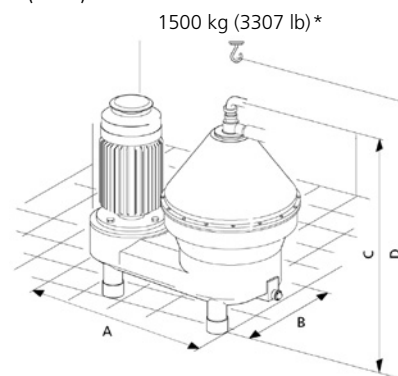
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Operating principles and constructional features



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|------------------------------------|--------------------------|
| 1 Product feed | 7 Separating disk |
| 2 Light phase discharge | 8 Solids holding space |
| 3 Centripetal pump,
heavy phase | 9 Sliding piston |
| 4 Centripetal pump,
light phase | 10 Closing chamber |
| 5 Distributor | 11 Spindle, drive |
| 6 Disk stack | 12 Solids ejection port |
| | 13 Heavy phase discharge |

Dimensions in mm (inch)



A	B	C	D
2210 (87)	1710 (67)	2290 (90)	3000 (118)

* Minimum lifting capacity for removing the bowl

Capacity	
Water degumming	1200 t/d
Acid degumming	1000 t/d
Neutralization	1200 t/d
Washing	1200 t/d
Winterization	500 t/d
Cold Refining	500 t/d
Miscella Refining	720 t/d
Bowl	
Speed	max. 4800 min ⁻¹
Volume	70.0 l
Volume of solids holding space	23.0 l
3-phase AC motor	
Motor rating (at FC)	55 kW
Weights	
Centrifuge, complete	3240 kg (7143 lb)
Bowl	1040 kg (2293 lb)

Standard scope of supply

- Special 3-phase AC motor
- Foundation frame
- Set of tools
- Set of standard spare parts
- GEA Westfalia Separator finetuner
- Hydrohermetic feed
- Control unit for automatic program control
- Motor control unit with frequency converter
- Speed measuring device

Options

- Main bowl gasket made of PVDF (for acid degumming)
- Disk stack made of material 1.4539
- Vibration monitoring system
- Constant pressure valve in the light phase discharge
- Set of special spare parts
- GEA Westfalia Separator wewatch® condition monitoring for pro-active maintenance

GEA Mechanical Equipment

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