



Separator MSE 230-01-777

Technical Data | Milk and whey skimming, cream concentration, serum skimming

This separator has been designed for hot milk or whey skimming, cream concentration or serum skimming.

The self-cleaning bowl makes the machine suitable for fully automatic cleaning-in-place. Opening and closing of the bowl for discharging the solids takes place hydraulically using water. The optionally available Westfalia Separator® **proplus** system enables an extension of the ejection intervals and consequently a reduction of the solids discharge. The product is fed into the machine through a closed-line system.

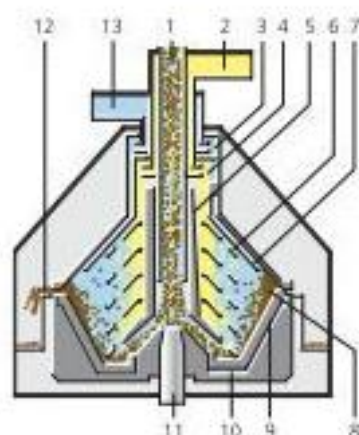
Double centripetal pumps likewise discharge the heavy and light phases in a closed system. The product feed and discharges in the bowl are hydrohermetically sealed and do not feature mechanical seals. The product connections can be designed according to DIN 11851 or ISO 2852 (TriClamp).

The optional Westfalia Separator® **wewatch**® system permits permanent monitoring of bearing condition and smooth rotation as a basis for targeted preventive maintenance.

The cast-iron frame and the motor of the machine are completely clad with stainless steel. All product-contacting parts are made of stainless steel. FDA approved materials are available for the seals. The hygienic design of the separator is certified by 3-A sanitary standards.

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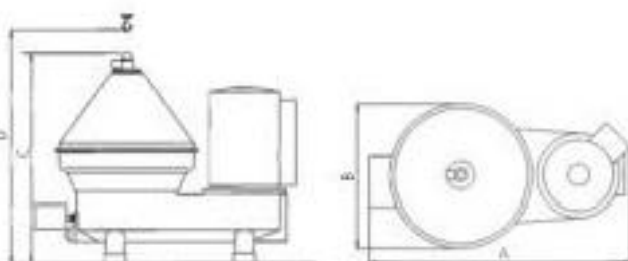
Operating principles and constructional features



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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 |

Capacity	
Milk skimming	30,000 l/h
Milk standardizing	35,000 l/h
Whey skimming	30,000 l/h
Cream concentration	10,000 l/h
Serum skimming	20,000 l/h
Process data	
Solids space	10.9 l
Feed pressure	1.0 bar
Useful discharge pressure skim milk	2.5 bar
Useful discharge pressure cream	2.5 bar
Energy requirement	
Motor rating	37 kW
Operating water	150 l/h
Cooling water	200 l/h
Control air	0.02 Nm ³ /h
Weights	
Separator, complete	2040 kg
Bowl	725 kg

Dimensions



Type	A	B	C	D
MSE 230	1930 mm	1030 mm	1880 mm	3000 mm

Standard scope of delivery

- 3-phase AC motor
- Base frame
- Stainless steel cladding
- Special tools
- Basic spare parts
- Gear oil

Options

- Solids tank or solids discharge
- Feed flow control
- Back pressure control
- Cream flow control
- Control unit Westfalia Separator® **standomat** for cream fat content and milk standardizing
- Process control (PLC)
- Motor control (MCC)
- Westfalia Separator® **proplus** system for extending ejection intervals
- Westfalia Separator® **wewatch**® condition monitoring for preventive maintenance



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