



Separator KDB 30-02-076

Technical Data | Fresh cheese, cream cheese, labneh

This separator has been designed for the production of fresh cheese, cream cheese or labneh from skim milk or milk of maximum 3.5 percent fat content.

The exact capacity is dependent on the parameters of raw and finished product. The machine is suitable for fully automatic cleaning-in-place. To ensure an optimum product quality a sterile air flow is applied to the hood space. Instead of this the hood space can be evacuated optionally.

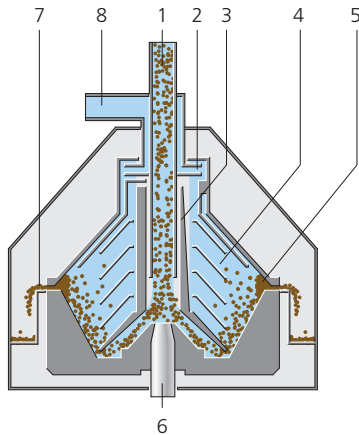
The product is fed into the machine through a closed-line system. A centripetal pump likewise discharges the whey in a closed system. The product feed and discharge in the bowl are hydrohermetically sealed and do not feature mechanical seals. The fresh cheese discharged from the nozzle bowl is guided to an integrated closed collecting vessel. The product connections can be designed according to DIN 11851 or ISO 2852 (TriClamp).

The machine is driven by a 3-phase AC motor via a hydraulic clutch and a worm wheel gear. 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.

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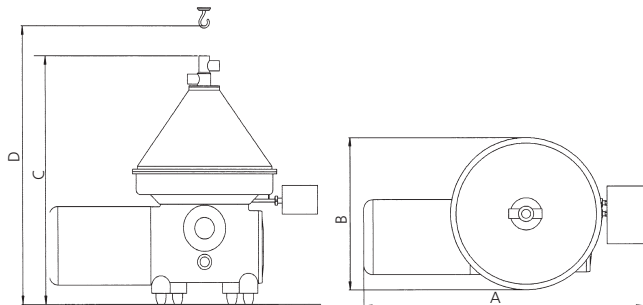
Operating principles and constructional features



- | | |
|--------------------|------------------------------|
| 1 Product feed | 5 Solids holding space |
| 2 Centripetal pump | 6 Spindle, drive |
| 3 Distributor | 7 Solids ejection port |
| 4 Disk stack | 8 Discharge, clarified phase |

Capacity (finished product)	
Fresh cheese, 18 % DM	2000 kg/h
Cream cheese, 27 % DM	1200 kg/h
Labneh, 24 % DM	1200 kg/h
Process data	
Feed pressure	0.2 bar
Useful discharge pressure	2.5 bar
Energy requirement	
Motor rating	30 kW
Water for mechanical seal	180 l/h
Ice water for hood cooling	1200 l/h
Compressed air (sterile)	45 Nm ³ /h
Safety water (during shut down and product interruption)	3000 l/h
Weights	
Separator, complete	1770 kg
Bowl	325 kg

Dimensions



Typ	A	B	C	D	E
KDB 30	1725 mm	1975 mm	1630 mm	3050 mm	720 mm

Standard scope of delivery

- 3-phase AC motor
- Base Frame
- Stainless steel cladding
- Integrated solids tank
- Vibrocontrol
- Special tools
- Basic spare parts
- Gear oil

Options

- Water cooled motor
- Feed flow control
- Back pressure control
- Vacuum unit
- Valve block
- CIP unit DCA 20
- Process control (PLC)
- Motor control (MCC)
- Westfalia Separator® wewatch® condition monitoring for preventive maintenance



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