

## Centrifugeuse ALFA LAVAL (type brew 250)

### Product Short Description :

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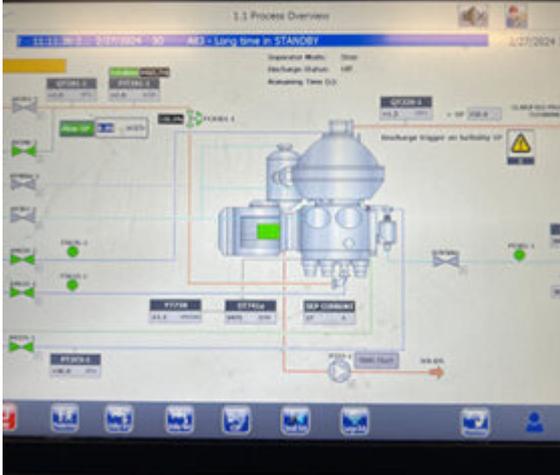
### Product Gallery:





## Alfa Laval Brew 250

Disc stack separation system for brewery applications



### Introduction

For more than 100 years, Alfa Laval has been supplying separators for various industries. Today, Alfa Laval has the most complete and diverse offering of separators – each fully optimized for its specific duty and supplied with all auxiliary systems and key components.

The use of disc stack separators in different brewery applications gives back several decades. Based on the long-term cooperation with the brewery industry, Alfa Laval separators are specifically designed for the requirements and demands of this industry.

Brew separators have a long history of enabling breweries around the world to achieve higher yields, meet all risks in demand and maintain profitability. Used in multiple brewery applications, they ensure minimal levels of oxygen pick-up during passage through the separator and the highest standards of hygiene.

### Application

Self-cleaning disc stack separation systems in the Brew series are specially designed for general beer clarification, beer purification or polishing duties with the target to produce the best quality beer with high-performance clarification and a maximum yield.

### Benefits

- High separation efficiency
- No oxygen pick-up
- Gentle treatment of the product
- Low power consumption
- Robust and reliable design

### Design

The Brew 250 separation system consists of a separator, a process & service liquid unit, and an electrical & control system.

The unique thermally bottom-fed design ensures superior



The system can be selected with an optional ProCarb™ feature – a patented micro carbonation technology that boosts productivity by combining rapid clarification with carbonation. This combination reduces the processing time from craft cooling tanks to packaging from 3 days to 3 hours.

All components are also mounted to facilitate "Plug and Play" installation, which results in a small footprint. It can be configured from a selection of basic and optional features and control functions.

The control system includes a PLC and a user-friendly HMI to monitor and control the separation process parameters. The system can be configured for remote operation.

All metallic parts in contact with the process liquid are made of stainless steel. Gaskets and seals in contact with the product are made of FDA approved material and are approved according to food regulations (EC 1831/2003).

The separation system is designed for automated Cleaning in

- Flowmeter
- Sight glasses
- Sample valves
- Electrical & control system:
  - Control cabinet with PLC and HMI
  - Motor starter cabinet with VFD
- Commissioning service
- Set of spares parts
- Documentation

#### Options

- ProCarb™
- Feed pump
- Solids receiving unit (a collection device and a transfer pump) for the discharged solids
- Capacity control by real turbidity
- Automatic flow control valve
- Automatic blending skid
- Service options:
  - Commissioning
  - Operators training (basic and advanced level)
  - Basic service agreement
  - Performance agreement

#### Working principle

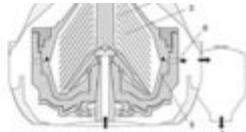
The process & service liquid unit monitors and regulates the flow and pressure of the feed and utility liquids in and out of the separator.

The process liquid is continuously fed from the bottom into the rotating separator bowl through the hollow drive spindle. Separation takes place between the bowl discs due to the centrifugal force. The solids settle towards the periphery of the bowl. The clarified separated liquid is continuously pumped out of the horizontally rotating separator by an integrated impeller through the outlet at the top of the separator.

The solids collected in the periphery of the bowl are discharged intermittently through the discharge ports. The discharge is triggered by a turbidity meter placed in the outlet of the system.

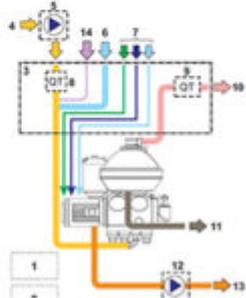
Water is used to control the movement of the sliding bowl bottom part that opens and closes the discharge ports. The discharged solids decanter in the sludge cyclone and can be pumped out of the system by the optional solids receiving unit.

The process & service liquid unit also controls the separator's



Typical bowl drawing for a solids-separating separator. The details illustrated do not necessarily correspond to the separator described.

1. Feed
2. Distributor
3. Disc stack
4. Liquid phase outlet
5. Sliding bowl bottom
6. Solids ports
7. Solids outlet from cyclone



- 11. Drain for separator
- 12. Solids receiving unit (optional)
- 13. Outlet of discharged solids
- 14. ProCarb™ (optional)

#### Technical data

Performance data	
Max capacity	100 m³/h (27.8 m³/min)
Max motor power	75 kW (102 hp)
* Total capacity and motor data include separator, liquid phase and solids receiving unit.	

#### Dimensions

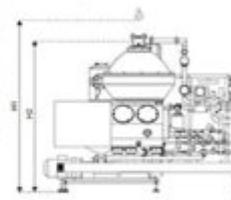
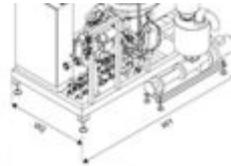
Feed rate	DN 150 (1.5" DN 38.1)
Product outlet	DN 150 (1.5" DN 38.1)
Solids outlet	DN 200 (8" DN 50.8)

#### Material data

Steel bowl	Stainless Steel (SA 312 304)
Product outlet	SA 312 304 (1.4308)
Sliding bowl bottom	SA 312 304 (1.4308)
Frame and cabinet	Stainless steel 316

#### Weights

Separator, separator, liquid unit	2140 kg (4719 lb)
Motor	210 kg (463 lb)



Dimensions	
Ø1	2715 mm (8' 7" 1/4) outside
Ø2	1460 mm (4' 7" 1/2) outside
Ø3	2400 mm (7' 8" 1/2) outside
Ø4	1700 mm (5' 6" 1/4) outside