Wirówka ALFA LAVAL (typ brew 250)

Product Short Description :

Ten sprzęt został już sprzedany!

Z przyjemnością znajdziemy podobny sprzęt dla Ciebie.
Prosimy o kontakt w celu omówienia wymagań.

Kontakt: info@wallart.fr

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 goes 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 shifts 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 pre-clarification or polishing duties with the target to produce the best quality beer with high performance clarification and a maximized 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 hermetic bottom fed design ensures superior

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

All components are skid-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 1935/2004).

The separation system is designed for automated Cleaning in

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- Flow meter
- Sight glasses
- Sample valves
- Electrical & control system:
  - Control cabinet with PLC and HMI
  - Motor starter cabinet with VFD
- Commissioning spares
- Set of special tools
- Documentation

Options

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

Working principle

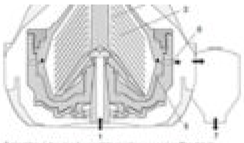
The process & service liquid unit monitors and regulates the flow and pressure of the feed and utility liquids in and out of the separator.

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 hermetically sealed 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.

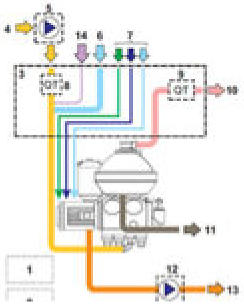
Water is used to control the movement of the sliding bowl bottom part that opens and closes the discharge ports. The discharged solids decelerate in the sludge cyclone and can be pumped out of the system by the optional solids receiving unit.

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



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

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



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

Technical data

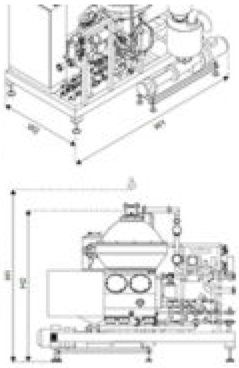
Performance data[1]	
Max capacity	[illegible]
Max. motor power	[illegible]

[1] Actual capacity and power consumption depend on application, solids content and operating conditions

Connections	
Feed inlet	[illegible]
Product outlet	[illegible]
Solids outlet	[illegible]

Material data	
Bowl body	[illegible]
Gaskets (product wetted)	[illegible]
Piping	[illegible]
Frame and cabinets	[illegible]

Weights	
System incl. separator, bowl and motor	[illegible]
Bowl	[illegible]



Dimensions	
H1	[illegible]
H2	[illegible]
W1	[illegible]
W2	[illegible]

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