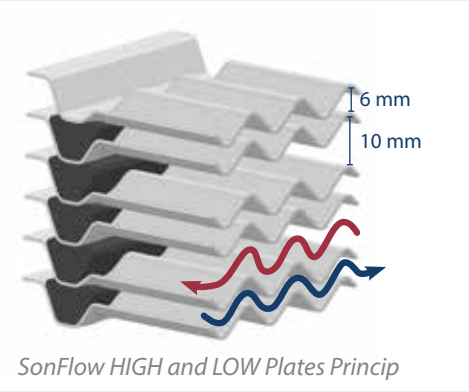

SonFlow HIGH and LOW Plates Princip

Free Flow Heat Exchangers

SFF151

SonFlow Free Flow Plate Heat Exchangers are designed for efficient heat transfer in applications involving liquids containing fibers, pulp, and solid particles. The optimized free-flow plate design minimizes the risk of clogging while ensuring gentle product treatment, uniform flow distribution, and reliable thermal performance.

The SFF150 series is designed with SonFlow HIGH and SonFLow LOW plates, which can be assembled in both asymmetric and symmetric flow channels.

Typical Applications:

- Dairy/food/beverage industry
- Sugar industry
- Pulp and paper industry
- General industry

Key Features:

Every detail is carefully designed to ensure optimal performance, reduced maintenance costs and decreased downtime:

- Gentle product handling
- Suitable for products with solid particles
- SonFlow HIGH and SonFlow LOW plates
- Asymmetric 10/6 mm or symmetric 8/8 mm flow channels
- Design pressure up to 10 bar
- Operating temperature: up to 180° C
- Fixed bolt head
- Lifting lug
- Lining
- Lock washer

Benefits:

- Designed for CIP cleaning
- Easy assembly
- Cost-affective
- Designed to combat fouling
- Clog resistant
- The inlet area is designed for optimal distribution and flow across the plate
- No dead spots on the plate

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Construction

SonFlow Free Flow plate heat exchangers are designed for demanding process applications where traditional plate heat exchangers may clog. The robut construction combined with wide-channel plates ensures reliable operation when handling products containing fibres, particles, or high viscous media.

The plate heat exchangers are designed for easy inspection, maintenance, and cleaning, including CIP-cleaning. The plate pack can be opened quickly, providing full access for manual cleaning and minimizing downtime.

Plates

The Free Flow plates feature wide, open flow channels designed for media containing fibres, particles, pulp, or high-viscosity liquids. The open design minimizes the risk of clogging while providing efficient heat transfer and easy cleaning. Different plate material are available to suit a wide range of process requirements.

Design pressure:

- Painted frames: 1.0 MPa (145 PSI)
- Stainless steel frame: 1.0 MPa (145 PSI)
- Max. differential pressure: 6 bar

Construction standards:

- EN13445
- ASME sec VIII, Div. 1

Frame:

- Painted frame, RAL 5010 (available in other colours)

Connections:

- DN150/6" flange in carbon steel or rubber lined
- According to all known standards

Plate material:

- AISI 304/316 and titanium
- Other materials available on request

Gaskets:

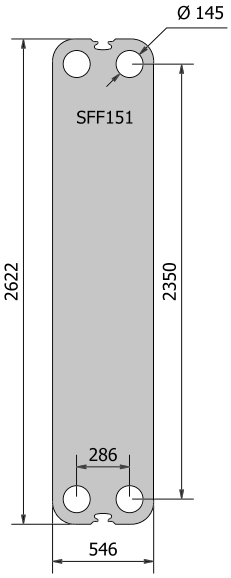
- Glued gasket
- Materials: NBR, EPDM and Viton
- Other materials available on request

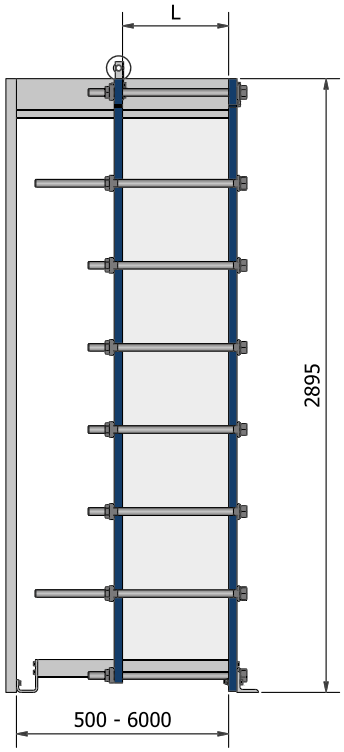
Accessories:

- Drip tray
- Insulation jackets
- Safety cover
- Assembling spanner
- Foundation feet

Dimensional Drawing:

Dimensions in mm





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SonFlow A/S reserves the rights to change the specifications without prior notification.

About SonFlow

SonFlow has developed an optimized and efficient range of plate heat exchangers, based on more than 45 years of experience. Our product line includes traditional, free flow, sanitary, condenser/evaporator, and brazed plate heat exchangers.
All our plate heat exchangers are customized to meet specific temperature requirements and capacities, ensuring a solution tailored to your needs - regardless of your industry or process.

Explorer our full range of plate heat exchangers at: www.sonflow.eu

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