





Plate Heat Exchangers

SF51 & SF51D

SonFlow offers a wide range of plate heat exchangers for heat transfer in various applications and market segments. The product range includes several series with different plate sizes, pressing depths, materials, and configurations.

The plate heat exchangers can be configured to suit different operating conditions and applications. The SF50 series is designed as a single-pass solution and can be used for a wide range of heat transfer duties. SonFlow SF51 are also available with a deeper press depth (Deep), which enhances flow efficiency and reduces the risk of clogging.

Typical Applications:

- HVAC-R
- Geothermal
- Marine
- Food and beverage
- General industry
- Chemical industry
- Mining

Key Features:

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

- Compact design
- High flexibility
- Gentle product handling
- Design pressure up to 25 bar
- Operating temperature: up to 180° C
- Leak chamber
- Fixed bolt head
- Lifting lug
- Lining
- Lock washer

Benefits:

- Lower operating costs
- Cost-effective
- Easy assembly
- Increased energy efficiency
- Easy cleaning
- Dead spots, that cause corrosion and fouling are eliminated

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Construction

SonFlow's plate heat exchangers are constructed to be extremely sturdy and with a robust structure. We offer different frame designs depending on the task and size of the plate heat exchanger.

Our plate heat exchangers are designed to provide easy access for inspection, maintenance, and cleaning, including CIP-cleaning. These tasks can be carried out smoothly and quickly, minimizing downtime and increasing productivity.

Plates

Plates are available in various pressing depths, chevron pattern angles, and corrugation shapes, designed and selected to deliver optimal performance. The plates are available in various materials to meet different temperature, pressure, and corrosion requirements.

Design pressure:

- Painted frames: 1.6/2.5 MPa (232/362 PSI)

Construction standards:

- EN13445
- ASME sec VIII, Div. 1

Frame:

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

Connections:

- DN 50/2" flange in carbon steel, rubber lined or cladded with AISI 316 or titanium
- DN 50/2" dairy pipes or unions
- 2" threaded pipe, BSP/NPT, Stainless steel or titanium
- According to all known standards

Plate material:

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

Gaskets:

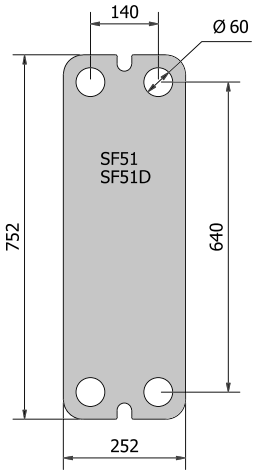
- Hang-on gaskets
- Materials: NBR, EPDM and Viton
- Other materials available on request

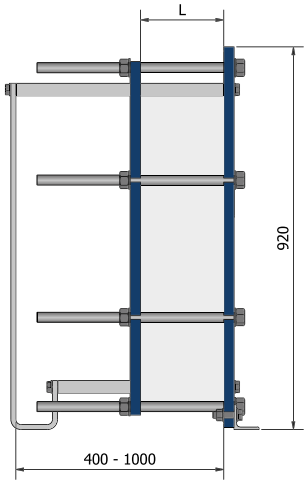
Accessories:

- 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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