# Brazed Heat Exchangers

## SFB31 & SFB32

**SonFlow Brazed Plate Heat Exchangers are an ideal solution for a wide range of applications across numerous markets segments.**

The SFB31 & SFB32 copper-brazed plate heat exchangers are engineered for high performance and reliable heat transfer, all within a compact, maintenance-free solution. Built to handle even the most demanding operating conditions, they are especially well-suited for installations where space is limited.

### Typical Applications:

- District cooling/heating
- HVAC
- Refrigeration
- Industrial processing
- Marine systems
- Data centres
- Heat pumps
- Solar heating
- Oil cooling

### Key Features:

- Compact, space-saving design
- Design pressure up to 40 bar
- Operating temperature: up to 185° C
- Choose between:
  SFB31: thermal long
  SFB32: thermal short, thermal long, or thermal mix
- Gasket free
- Copper brazed construction
- Maintenance and service friendly
- Easy and quick installation

### Benefits:

- Lower operating and life cycle costs
- High thermal transfer efficiency
- Increased energy savings
- Lightweight and easy to handle
- Robust, solid construction
- Extremely small footprint
- Minimal service and maintenance
- Solid construction

**SonFlow A/S** | Nordager 25 | 6000 Kolding | Denmark | Tel. +45 86 57 13 44 | info@sonflow.dk | www.sonflow.dk

## Construction

The brazed plate heat exchanger is constructed from a pack of thin, corrugated stainless steel plates, assembled between two thicker stabilizing cover plates. A copper foil placed between each plate serves as the brazing material and is melted during the vacuum brazing process, permanently sealing the unit.

## Plates

The corrugated plates are specifically designed to ensure optimal heat transfer by providing a large thermal surface within a compact unit. This enables efficient energy exchange between the two medias. The plates are optimised to meet specific temperature demands and capacities.

## Materials:

- Plate material: AISI 316
- Brazing material: Copper

## Design Pressure:

- Cobber brazed: 25 and 40 bar (362 and 580 PSI)

## Temperature:

- -100 to 185˚C (-148 til 365˚F)

## Construction Standards:

- EN13445 (PED 2014/68/EU)
- ASME Section VIII, Div. 1

## Connections:

- ¾" outside pipe thread ISO7-R
- 1" pipe thread ISO7-R
- 1 ¼" pipe thread ISO7-R
- 1 ½" pipe thread ISO7-R
- Ø 22.3 pipe for brazing
- Ø 28.2 pipe for brazing
- NPT threads upon request

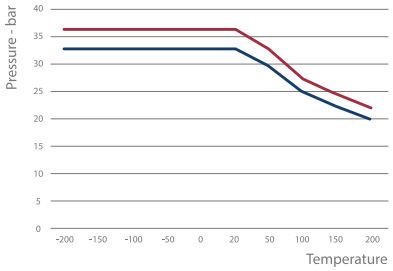
## Number of Plates (Options):

- SFB31: 11, 15, 21, 31, 41, 51, 61, 71, 81, 91, 101
- SFB32: 11, 15, 21, 31, 41, 51, 61, 71, 81, 91, 101, 111, 121, 131, 141, 151

## Accessories:

- Insulation jackets
- Foundation feet
- Mounting brackets
- Support frame (only for SFB32)

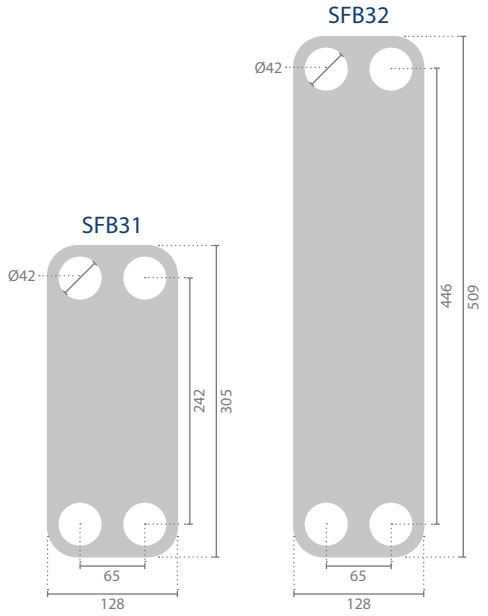
## PED Pressure/Temperature:

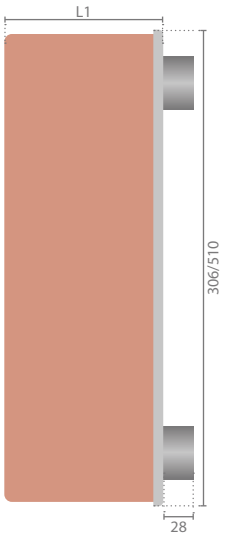



## Dimensional Drawing:

Dimensions in mm

L1 = (number of plates x 2.1) + 9 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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