▶ SL34

Copper and Stainless Steel Brazed Plate Heat Exchangers

SONDEX®

Recommended Applications

The compact "brazed" plate heat exchanger is designed with focus on the refrigeration area, air conditioning, the HVAC area, solar heating, oil units, heat recovery, engine cooling and other industrial tasks.

Design Principle

The Sondex type SL34 / SLS34 "brazed" heat exchanger contains a plate pack and will cover many duties up to 35 m³/h (150 gpm) in a single pass solution where all 4 connections are on the front side. This means easy pipe and service work.

Sondex brazed plate heat exchanger consists of a number of thin, acid-resistant plates, precision stamped and assembled as a unit, each alternate plate being rotated 180°.

The plate pack, assembled with two end plates and connections, is vacuum brazed at extremely high temperatures providing a permanently sealed heat exchanger. The final result is a strong and compact plate heat exchanger with extremely high heat transmissions. The high heat transmission comes from the main pattern which is designed to create a turbulent flow.

The SL34 is also availabe in a Sondex Sonder Safe version

The Sondex Sonder Safe system consists of two thin flow plates stamped together. The two plates form a pair of plates which allows possible leaks to be seen from outside between the two plates. This prevents a mixing of the products and warns against internal leaks.
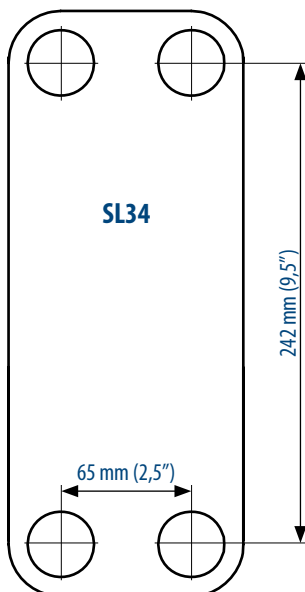
Data Required for Correct Quotation:

- Duty
- Type of media
- Pressure loss
- Flow rate
- Working pressure
- Thermodynamic properties
- Temperature
- Working Temperature
- Product concentration by inlet and outlet

Above data determines the choice of heat exchanger.

SL34

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242 mm (9,5")

65 mm (2,5")

Technical Information

Standard Materials:
- Flow plates and connections: AISI 316
- End plates: AISI 304
- Brazing material: Copper or stainless steel

Design Pressure:
- Copper brazed: 25 or 30 Bar (362 or 435 PSI)
- Sonder Safe: 30 Bar (435 PSI)

Design Temperature:
- Copper and stainless steel brazed: ÷100 to 185°C (÷148 to 365°F)

Construction Standard:
According to pressure equipment PED 2014/68/EU.

Connections:
- 1"-1½" thread ISO7 BSP/NPT
- 1"-1½" inside thread ISO7 BSP/NPT
- 22,3 mm (0,87") pipe for brazing
- 28,2 mm (1,11") pipe for brazing

Additional Equipment:
- Insulation Jacket
- Floor mounting feet
- Connection unions for welding on pipes: AISI 316 or St. 52-3.