



**SONDEX®**

## ▶ SL140 Braze Plate Heat Exchangers

### 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 SL140 "brazed" heat exchanger contains a plate pack and will cover many duties up to 90 m<sup>3</sup>/h (396 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.

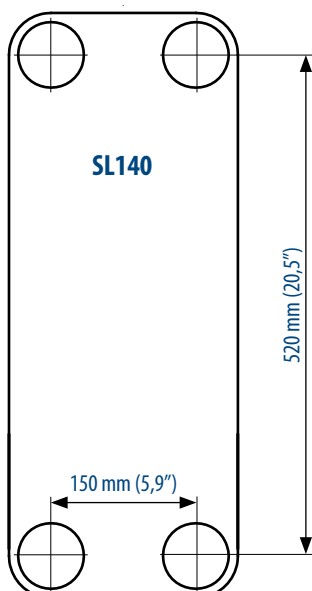
### The SL140 is also available in a Sondex Sonder Safe version

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

Above data determines the choice of heat exchanger.



### Technical Information

#### Standard Materials:

- Flow plates and connections: AISI 316
- End plates: AISI 304
- Brazing material: pure copper

#### Design Pressure/Temperature:

- Design pressure: 30 or 36 Bar (435,1 or 522,1 PSI)
- Sonder Safe design pressure: 25 or 31 Bar (362,5 or 449,6 PSI)
- Design temperature: ÷20 to 185°C (÷4 to 365°F)

#### Construction Standard:

According to pressure equipment PED 97/23/EC.

#### Connections:

- 2-2.5" thread ISO7 BSP/NPT
- 2.5" inside thread ISO7 BSP
- 54.2 mm (2,13") pipe for brazing
- 70.2 mm (2,76") pipe for brazing

#### Additional Equipment:

- Insulation jacket
- Floor mounting feet
- Connection unions for welding on pipes in AISI 316 or St. 52-3.