Recommended Applications:
The **S145 /S210/S315 Sondex** plate heat exchangers are specially designed for the HVAC area, the geothermal-, marine- and heat recovery area as well as for the industrial- and chemical market.

Design Principle:
This plate range with lengths up to 3,20m and “long” thermal pattern will cover many duties up to 3000 m³/h in a single pass solution, which means that all the connections are on the head side. This will ensure easy pipe- and service work, and by dismantling the exchanger for service, no pipes need to be removed.

The heat transfer is obtained, when the warm medium transfers energy through the thin, strong flow plates between the channels and delivers it to the cold opposing medium without mixing the two media. Countercurrent flow creates the optimal efficiency.

The plate- and inlet design allows an effective and easy CIP (Cleaning In Place) of “flow” surfaces.

Flow plates:
The corrugated “herringbone” pattern ensures turbulent flow in the whole effective area. Furthermore, this pattern brings “metallic” contact between the plates, and together with locking devices on the gaskets, the plate pack is easily assembled.

The plate pack is held firm and safely between the fixed head and movable follower of the frames.

Data Required for Correct Quotation:
Duty, flow rate, type of media, temperatures, working pressure/temperature, pressure losses and thermodynamic properties determine the choice of exchanger, size of heat surface and plate pattern.

Technical Information

**Frame:**
- Painted frame with the clamping bolts fitted around the frame edge.
- Standard colour by painted frame: Blue RAL 5010.
- Available in other colours.

**Working pressure:**
The frames are designed for working pressure:
- **Type S145/S210:**
  - 0.6 MPa / 1.0 MPa / 1.6 MPa.

**Construction Standard:**
- According to PED 97/23/EC: A-D “Merkblätter”
- According to ASME CODE: ASME VIII, DIV. 1

**Connections:**
- DN 400 flanges. Carbon steel, rubberlined and cladded, with AISI316 or titanium. According to all known standards.

**Plates:**
- Standard material: AISI 304, AISI 316 and titanium.
- Not standard: 254 SMO, hastelloy C 276 and other pressable materials.

**Gaskets:**
- The gaskets are the unique “Sonder Lock”, glued type.
- Standard material: Nitrile, EPDM.
- Not standard is viton.

**Extra Equipment:**
- Safety cover in stainless steel.
- Insulating jacket.
- Assembling spanner.
- Foundation feet for frame.
The manufacturer reserves the right to change the specifications in force at any time.

CONNECTIONS:

RUBBERLINE / CLADDED

PAINTED

FRAME

L = 1000 - 4000
L = 39.37" - 157.48"

PLATE HEAT EXCHANGER G145 / S210 / S315 - IS PN06/10/16/25

FRAME SIZE
D I M E N S I O N  H  D I M E N S I O N  C
S145  217/85.51"  149/58.51"
S210  2657/105"  1901/74.84"
S315  3467/136.5"  2701/106.34"

L = 3000 - 6000
L = 1968.5" - 2362.25"