Recommended Applications:

The Sondex plate range is specially designed for the HVAC area, the geothermal-, marine- and heat recovery area as well as for the food-, industrial- and chemical market.

Design Principle:
The Sondex plate range with its length up to 2.3 meter and up to extra "long" thermal pattern, will cover many duties up to 350 m³/h in a single pass solution, which means that all 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. Counter-current flow creates the optimal efficiency. The plate- and inlet design allows an effective and easy CIP (Cleaning In Place) of all "flow" surfaces.

Flow plates:
The corrugated “Herringbone” pattern ensures turbulent flow in the whole effective area. Further 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 exchanger type, heat surface size and plate pattern.

Technical Information

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

Working pressure:
The painted frames are designed for working pressure: 0.6 MPa/1.0 MPa/1.5 MPa/2.5 MPa.

Intermediate Frame:
- Intermediate frame and corner blocks for the types S41/42, S62 and S86.

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

Connections:
- DN 150 flanges.
- Carbon steel rubber lined or cladded with AISI316 or titanium.

According to all known standards. 4", 5" & 6" / DN100/125/150 dairy unions.

Plates:
- Standard material: AISI 304, AISI 316 and titanium, 254 SMO Also 2 x 0.4 mm “Sonder Safe” plates.
- Not standard: Hastelloy C 276 and other pressable materials.

Gaskets:
The gaskets are the unique type “Sonder Lock” or “hang-on” non-glued.
- Standard material: Nitrile, EPDM and viton.

Extra Equipment:
- Safety cover in stainless steel.
- Insulating jacket.
- Assembling spanner.
- Foundation feet for frame.