Recommended Applications:
The S52 Sondex plate heat exchanger is specially developed for the food-, industrial- and chemical market.

Design Principle:
The Sondex type S52 plate, length 1.6 m, "long" thermal pattern will cover many duties up to 160 m³/h in a single pass solution, meaning that all the connections can be on the head side of the plate heat exchanger. 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 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 type, size of heat surface 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 frames are designed for a working pressure of:
1.0 MPa for the FS frame and 1.6 MPa for the IS frame.

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

Intermediate Frame:
Intermediate frames and corner blocks in stainless steel for FS and IS frames.

Connections:
DN 100 flanges.
Of carbon steel or rubberlined.
According to all known standards. 3”/DN80 dairy or union.
According to all known standards.

Plates:
Standard material: AISI 316.
Not standard: Titanium, 254 SMO, Hastelloy C 276 and other pressable materials.

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

Extra Equipment:
Safety plate of stainless steel.
Insulating jacket.
Assembling spanner.
Foundation feet for frame.