**Recommended Applications:**
The *S43 / S65 / S100 / S130 / S152 / S220* range of *Sondex* plate
heat exchangers is specially developed for the HVAC area, the geo-
thermal-, marine- and heat recovery area, as well as for the industrial
and chemical market.

**Design Principle:**
The *Sondex* type plate range with lengths up to 3.3 m and up to
extra “long” thermal pattern, will cover many duties up to 700 m³/h
in a single pass solution, which means that all the connections
can be placed 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 ensure 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 frame.

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**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 working pressures:
Type S43, S65, S100 and S130: 0.6/1.0/1.6/2.5 MPa.
Type S152/S220: 1.0/1.6/2.5 MPa.

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

**Connections:**
DN 200/250 flanges.
In carbon steel, rubberlinied and cladded, with AISI316 or titanium.
According to all known standards.

**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 “Sonder Lock”, non-glued type and for some
plates glued type.
Standard material: Nitrile, EPDM and viton.

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