SONDEX

S7A + S14A + S20A
Plate Heat Exchanger

Recommended Applications:
The **S7A/S14A/S20A** range of **Sondex** plate heat exchangers 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** type **S7A, S14A & S20A** plate range with lengths up to 1,0 meter and "long" thermal pattern, will cover many duties up to 50 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. Counter-current flow creates the optimal efficiency.

The plate- and inlet design allows an effective, 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, pressure losses and thermo-dynamic properties determine the choice of exchanger type, size of heat surface and plate pattern.

Technical Information

Frame:
Painted frame and stainless steel 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: 1,6 MPa and 2.5 MPa.
Stainless steel frames are designed for 1,6 MPa.

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

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

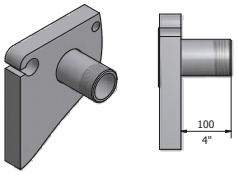
Connections:
DN 50 flanges.
Carbon steel, rubberlined or cladded, with AISI 316
According to all known standards.
2" threaded pipe in stainless steel or titanium.
2"/DN50 dairy pipes or unions.
According to all known standards.

Plates:
Standard material:
AISI 316 and titanium, 254 SMO.
Also 2 x 0.4 mm "Sonder Safe" plates for food & industry.
Not standard: Hastelloy C 276 and other pressable materials.

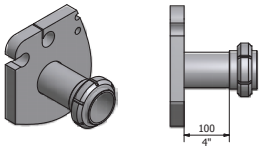
Gaskets:
The gaskets are the unique "hang-on" non-glued type.
Standard material: Nitrile, EPDM and viton.

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

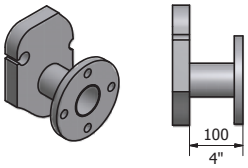
CONNECTIONS:



THREADED PIPE



DAIRY UNION

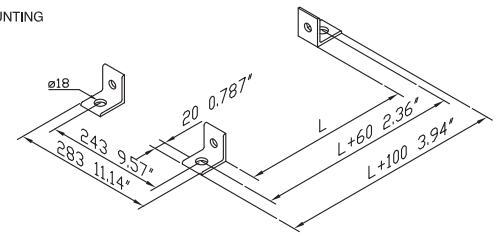


FLANGE ON PIPE

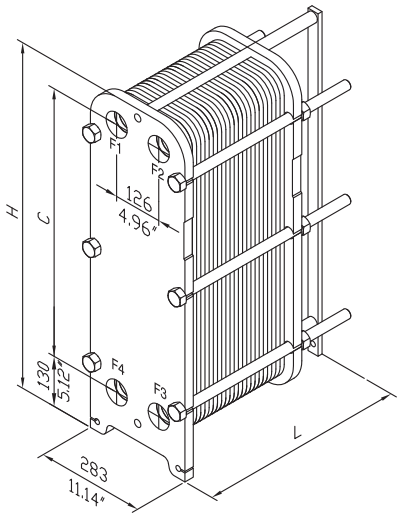
RUBBERLINE

PAINTED / CLADDED

MOUNTING



FRAME



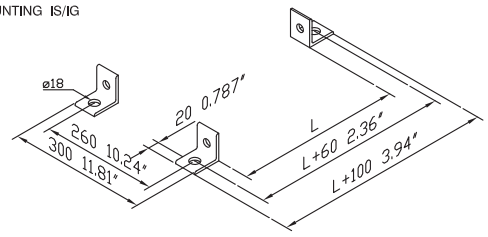
SUBJECT TO CHANGE IN CONSTRUCTION CONDITIONS

FRAME SIZE	DIMENSION H	DIMENSION C
S7A	596/23.42"	394/15.51"
S14A	896/35.28"	694/27.32"
S20A	1096/43.15"	894/35.20"

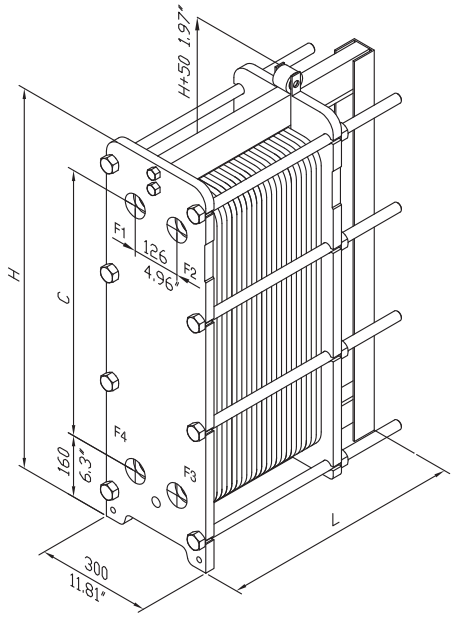
PLATE HEAT EXCHANGER GROUP:

S7A / S14A / S20A - ST PN16

MOUNTING IS/IG

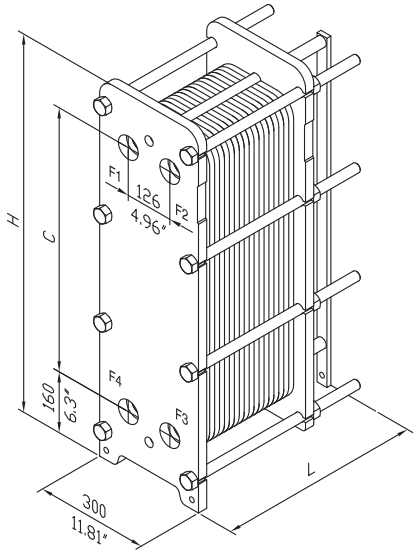


FRAME IS



SUBJECT TO CHANGE IN CONSTRUCTION CONDITIONS

FRAME IG



SUBJECT TO CHANGE IN CONSTRUCTION CONDITIONS

FRAME SIZE	DIMENSION H	DIMENSION C
S7A	694/27.32"	394/15.51"
S14A	994/39.13"	694/27.32"
S20A	1194/47.00"	894/35.20"

PLATE HEAT EXCHANGER GROUP:

S7A / S14A / S20A- IG / IS - PN16-25

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