

D21SE - D45SE - D55SE

PLATE HEAT EXCHANGERS

Technical Data Sheet

Recommended Applications:

The Sonder Lock Energy Saving Plates (SE) are specially developed to meet the future demands for high-efficient heat exchangers. This design makes the plates exceptionally well-suited for use in the HVAC industry as well as in solar plants, and geothermal installations where high performance is of utmost importance.

Design Principle:

The D21SE, D45SE and D55SE plate range with lengths up to 5.6 ft (1.7 m) and a “long” thermal pattern will cover many duties up to 661 gpm (150 m³/h) in a single pass solution, meaning 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 effective, easy CIP (Cleaning in Place) of all “flow” surfaces.

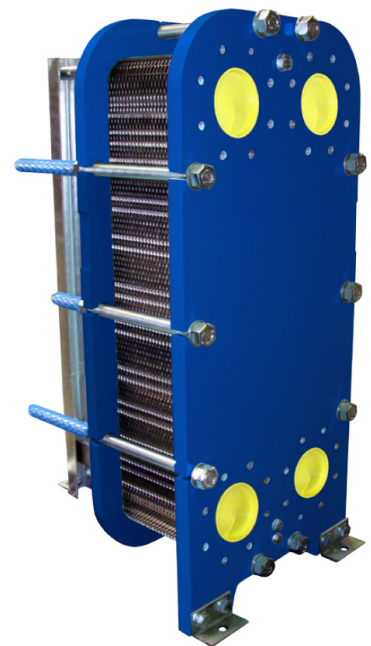
Flow plates:

The corrugated “herringbone” pattern ensures turbulent flow in the whole effective area. Furthermore, this pattern brings “metallic” contact between the plates, and together with “Sonder Lock” 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.

Data Required for Correct Quotation:

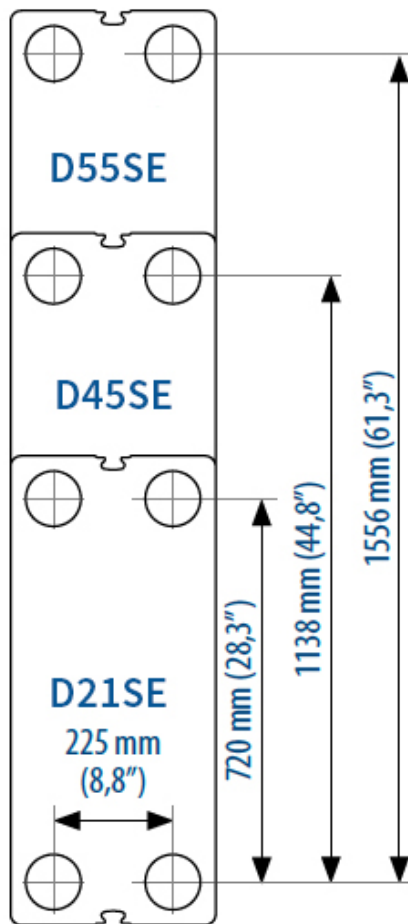
The below data determines the choice of heat exchanger

- Duty
- Flow rate
- Temperature
- Type of media
- Working pressure
- Working Temperature
- Pressure loss
- Thermodynamic properties



Model: D21SE shown

Technical Information:



Frame:

- Painted frame, color RAL 5010 (available in other colors)
- Both frames comes with clamping bolts placed around the frame edge.

Design Pressure:

- Painted frames: 145/232/362 PSI (1.0/1.6/2.5 MPa.)

Construction Standard:

- EN13445 (PED 2014/68/EU)
- ASME sec VIII, Div. 1

Connections:

- DN100/4" flange in carbon steel, rubber-lined or clad with AISI 316 or titanium.
- According to all known standards.

Plate Material:

- AISI 304/316, 254 SMO and titanium.
- Also 2 x 0.4 mm "Sonder Safe" plates.
- Other materials available on request.

Gaskets:

- The gasket is the unique non-glued "Sonder lock" gasket which locks the plates together with strong rubber buttons, so that the plates are strongly guided during the assembly of the plate heat exchanger.
- Materials: NBR, EPDM and Viton.
- Other materials available on request.

Extra Equipment:

- Safety cover in stainless steel
- Insulating jacket
- Assembling spanner
- Foundation feet
- Instrument flange
- Thermometer and manometer

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