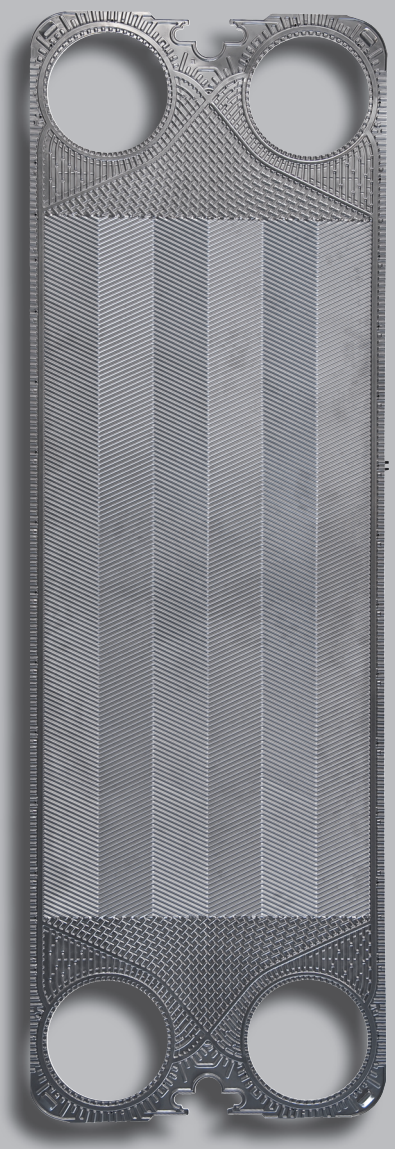
ELGE TECHNOLOGIES

NX Series – Gasketed Plate Heat Exchangers

Application:

Within the Elge product group, the NX Series is a gasketed plate heat exchanger for use with clean, low viscosity media in high pressure applications. It delivers temperature approaches down to 1°F with fewer plates and a single pass design. It is used primarily in HVAC applications, and performs well in other applications with the same conditions.



Benefits:

More Efficient System Design

- A real 1°F temperature approach in a single-pass design comes from the smaller gap width combined with our unique Optiwave™ design, and enables you to reduce equipment size for a more efficient system design.

Great as a Pressure Breaker

- 360psig design pressure means suitability as a pressure breaker in high-rise applications, where space can be especially tight.

Fits More Easily

- Smaller size than traditional shell-and-tube technology means more space in the mechanical room for other equipment.

Peace of Mind

- Over 75 years of plate heat exchanger experience from one of the largest companies in the world.
- ASME and PED pressure vessel certifications.

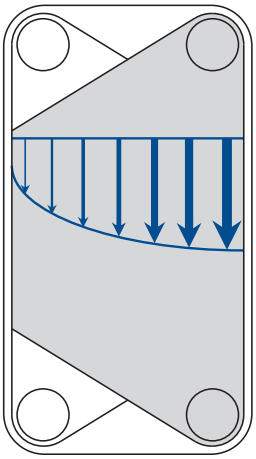
What does a 1°F temperature approach mean for you?

Whether you need 1° or not, you can accomplish the same end result with a smaller unit, increasing system efficiency at the same time. And you can do it without needing multiple units or a multipass heat exchanger and the extra piping cost that multipass represents. The result? Simpler design, smaller equipment, lower cost to your customers.

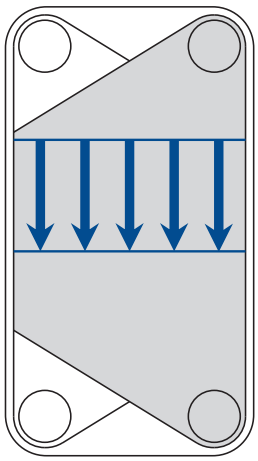
What Makes Optiwave™ Better?

Superior design. Conventional plates allow most media to flow directly from one port to the other, reducing the flow on the far side. This means that they don't make full use of the heat transfer area, and require more plates. Optiwave plates provide even media flow over the entire width, making full use of the area, and increasing efficiency with fewer plates. The result? Plates with Optiwave deliver the same or better heat transfer efficiency with fewer plates.

Conventional Design



Optiwave™ Design



Technical Details:

Materials and Construction:

Heat Transfer Plate: 316 Stainless and 304 Stainless.

Gasket: NBR and EPDM.

Pressure Plate: Carbon Steel and others on request.

Port Connection: Unlined, Metal Lined, Welded Neck Flange, and others on request.

Performance:

Design Pressure:

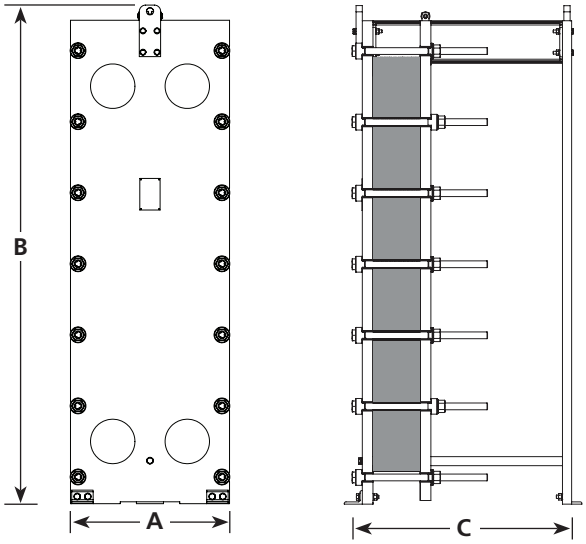
Up to 360 psig (25 bar) depending on application.

Design Temperature:

Up to 330°F (170°C). Higher temperatures are available on request.

Approximate Maximum Liquid Flow Rate:

4400 gpm (1000m³/hour)



Model	Connection Size	Dim. A	Dim. B	Dim. C
NX 100 X	4" nominal (DN 100)	23" (584mm)	81.1" (2060mm)	Up to 84" (2134mm)
NX 150 L	6" nominal (DN 150)	26.2" (665mm)	86.9" (2207mm)	Up to 108" (2744mm)
NX 150 X	6" nominal (DN 150)	26.2" (665mm)	93.6" (2377mm)	Up to 108" (2744mm)
NX 250 L	10" nominal (DN 250)	35.2" (895mm)	110.5" (2807mm)	Up to 108" (2744mm)