Kelvion

Gasketed Plate Heat Exchangers

ND DOUBLE WALL PLATE HEAT EXCHANGERS

ND Double Wall Features
The ND double-wall plate heat exchanger has the same features as our NT line of single wall gasketed plate heat exchangers.

PosLoc™—Heat transfer plates have multiple lead-ins that ensure self-alignment of the plate pack for ease in closing. This feature reduces downtime when servicing the unit.

EcoLoc™—Adhesive-free gasket attachment makes replacement a snap. A special design keeps gaskets in place even after several service cycles.

OptiWave™—Computer modeled heat transfer area design provides even flow distribution across the entire plate surface, maximizing heat transfer while minimizing fouling rates, plate count, and cost.

Double Wall Plate Benefits

- No intermixing of media
- Maximum heat transfer
- Compact design
- Easy maintenance

The ND Double Wall PHE combines a high efficiency heat transfer plate with an extremely reliable double wall design that eliminates any risk of two fluids intermixing as they pass through the heat exchanger. A pair of identical heat transfer plates are laser-welded together at the inlet and outlet port holes to form a small leakage gap between the two plates. This clever solution ensures no cross contamination of media while making any leakage clearly visible in the event of a failure.

ND Double Wall Series: Technical Data

MATERIALS AND CONSTRUCTION:

Heat Transfer Plate: 316L Stainless Steel

Gasket: NBR, EPDM, Viton and others on request

Port Connection: Metal Lined and others on request

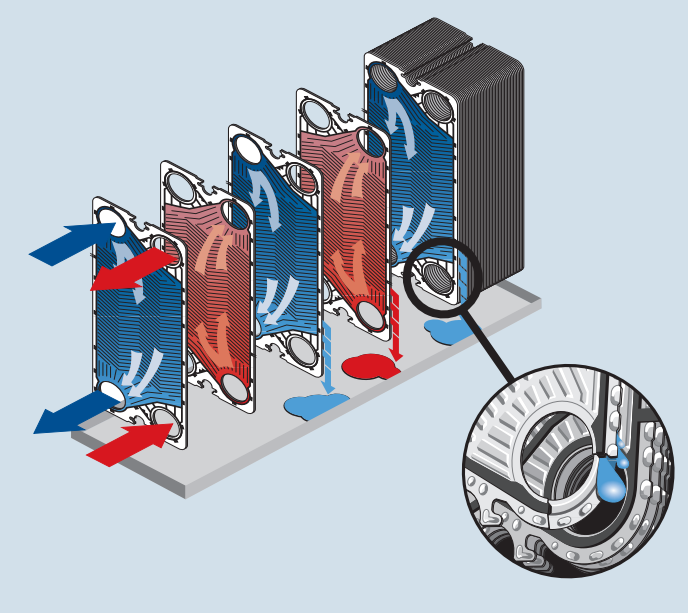
PERFORMANCE:

Maximum Standard Design Pressure: 230 psig (16 barg)

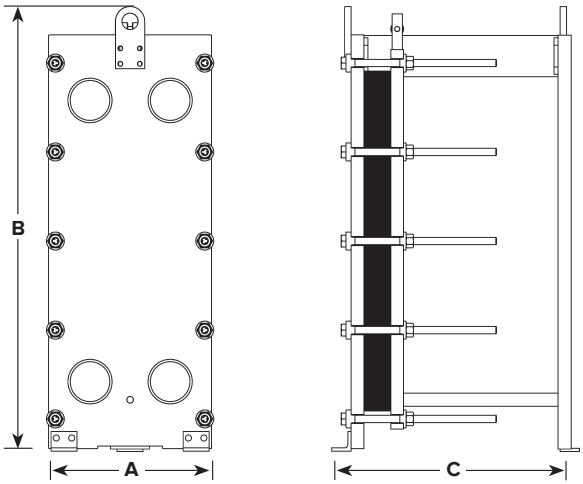
Maximum Standard Design Temperature: 370°F (190°C), depending on gasket selection

Approximate Maximum Liquid Flow Rate:

ND50 double wall: 225 gpm (51 m^3/hour)
ND100 double wall: 900 gpm (204 m^3/hour)



Leak Protection: Cross contamination of liquids is avoided due to the double wall gap. Any leaks are externally detectable.



ND Double Wall Plate Configurations				
Model	**Connection Size**	**Dim A.**	**Dim B.**	**Dim C.**
ND 50T	2" Nominal (DN 50)	12.7" (323 mm)	26.60" (675 mm)	Up to 44" (1120 mm)
ND 50M			40.20" (1020 mm)	
ND 50X			54.70" (1390 mm)	
ND 100T	4" Nominal (DN 100)	21.3" (541 mm)	44.90" (1140 mm)	Up to 158" (4013 mm)
ND 100M			60.9" (1546 mm)	
ND 100X			76.9" (1952 mm)	

Approximate, varies with design requirements.

About Kelvion:
Kelvion provides one of the most extensive product portfolios in the heat exchange market worldwide for a wide range of applications. Kelvion manufactures plate, shell and tube, air-cooled heat exchangers, air filter systems, synthetic fillings for numerous areas of application, wet cooling towers and dry cooling systems, as well as air-conditioning facilities. As a result, Kelvion provides reliable and comprehensive coverage of the entire spectrum for heat exchange.

Kelvion Inc., PHE
100 Gea Drive, York, PA 17406
Phone: 717-268-6200
Fax: 717-268-6162
www.kelvion.com/us