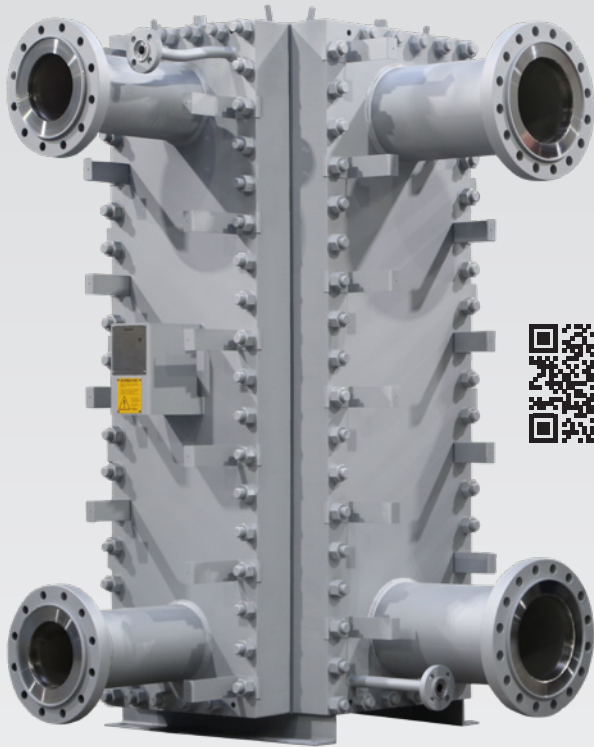




GREENBOX™ S - Liquid to Liquid / Biphasic applications



Design

Nexson GreenBox™ is a fully welded compact plate heat exchanger, made of square corrugated plates welded together, forming the heart of the heat exchanger. There are no gaskets between the plates, instead a strong weld makes it leak proof. Only the removable side panels require gaskets for external sealing.

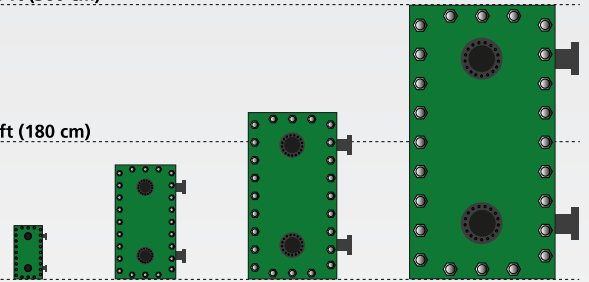
The heart of the GreenBox™ is supported by four corner girders with a patented soft corner design, and four side panels which are removable, allowing easy access to the core for inspection and/or mechanical cleaning.

Nexson patented soft corners design makes the GreenBox™ the most robust of its category. The mechanical reliability of the ingenious soft corner design is the ideal solution for operation in tough process duties with high pressures and temperatures in liquid/liquid or biphasic applications.

Area Model	Min area	Max area
WX20	1,9 m ² (20,4 ft ²)	7,9 m ² (85 ft ²)
WX35	9,3 m ² (100,1 ft ²)	31,1 m ² (334,7 ft ²)
WX50	14,8 m ² (159,3 ft ²)	148,2 m ² (1595,2 ft ²)
WX80	115,2 m ² (1240 ft ²)	384,3 m ² (4136,6 ft ²)

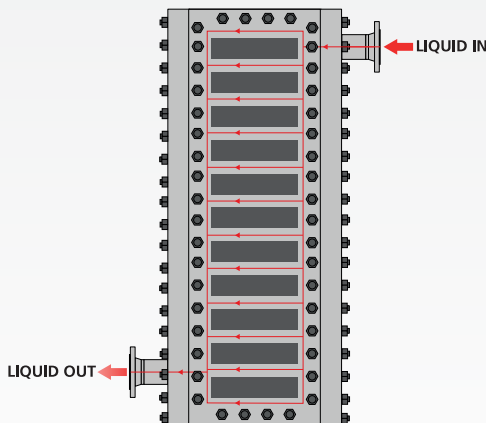
11,8 ft (360 cm)

5,9 ft (180 cm)

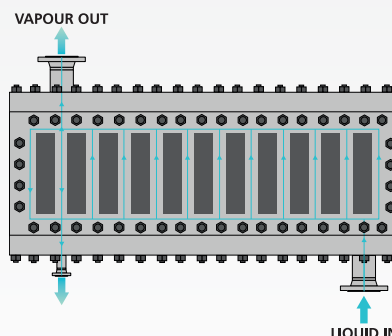


LIQUID TO LIQUID DUTIES

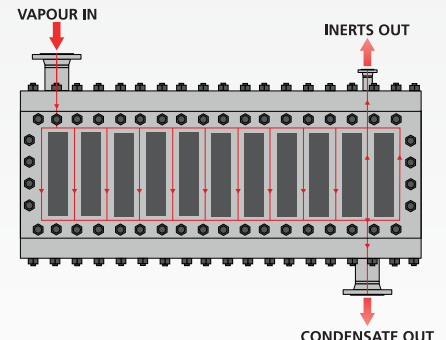
BIPHASIC APPLICATIONS



- HEATER - COOLER - INTERCHANGER -



- EVAPORATOR -



- CONDENSER -



Oil&Gas



Petrochemical



Mining&Steel



Power



Pulp&Paper



Agro industry



Pharmaceutical

Condition of use

Design

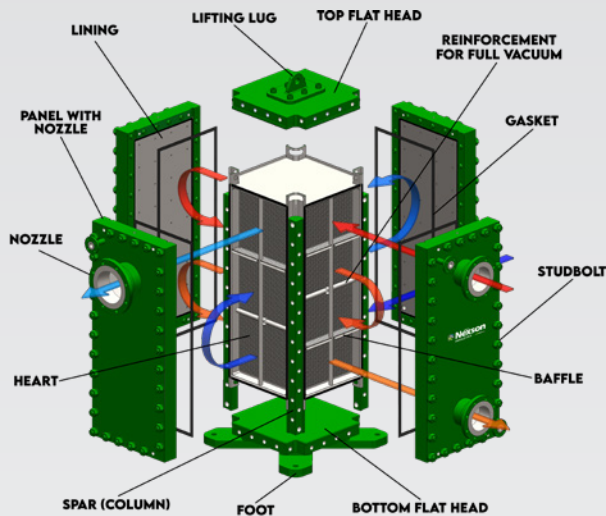
Design temperature: -46°C (-50,8°F) up to 400°C (752°F)
Design pressure: Full Vacuum / 40 Barg (580 Psi)
Design in compliance with API 662

Plates Materials

316, 316L, 2545MO, C276, Titanium, others on request

Sizes :

2m² (20ft²) up to 400m² (4300ft²) | Custom design available upon request



Customers benefits

> CLOSE TEMPERATURE APPROACH

The unique corrugated plates design allows the GreenBox™ S to reach a very close temperature approach and even get to crossover temperature by achieving high heat transfer K coefficient values.

> COMPACT SIZE AND EASY INSTALLATION

Nexson welded plate heat exchangers are very compact units. They require a very small floor space including the space needed for installation and maintenance.

> INTERNAL DIFFERENTIAL PRESSURE

Nexson's unique plate design allows it to work with identical pressures on either side of the plate.

> EVOLUTIVE DESIGN

GreenBox™ adaptable and removeable baffles allows to adjust easily pressure drop and fluid velocity to meet the thermal performance.

> INTERCHANGEABLE HEART

Thanks to its modular construction, we can remove parts that need to be replaced by new parts and at the same time keep the parts in good condition.

> EASY TO INSPECT

Thanks to his totally bolted design, you can easily dismount the unit for inspection and cleaning.

> MAXIMISED HEAT TRANSFER COEFFICIENT

Nexson's plate are designed with high shear stress, coupled with a high turbulent regime. This will optimise the efficiency of the heat exchanger while reducing any risks of fouling.

