

GREEN P&S Type W - Plate and Shell Fully Welded

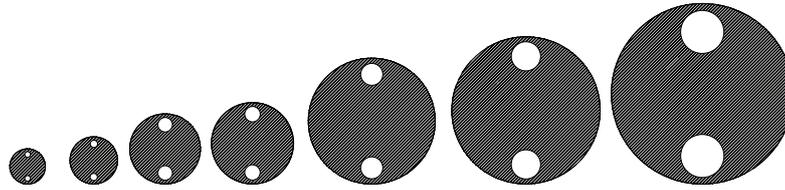


DESIGN

Plate and shell fully welded heat exchangers are suitable for various industrial fields, with advantages such as efficiency, safety, and compactness. They can be customized according to customer specific process conditions, and are resistant to high temperature, high pressure, and corrosion.

The core component of Nexson GREEN P&S Type W - Plate and Shell Fully Welded is a fully welded plate pack enclosed within a robust shell, eliminating the need for gaskets. Both the plate pack and the shell are entirely welded, yet they remain separate, allowing for expansion and contraction in response to temperature changes.

The circular plate design ensures uniform stress distribution, enhancing durability and performance.



Type	NR025	NR050	NR080	NR100	NR150	NR200	NR300
Port diameter (DN)	DN25	DN50	DN80	DN100	DN150	DN200	DN300
Plate diameter (mm)	~200	~300	~450	~600	~900	~1000	~1200

CHARACTERISTICS

The corrugated plate generates high turbulence in the fluid, and its heat transfer efficiency is much higher than that of traditional shell and tube heat exchangers. The size of plate heat exchangers with the same heat transfer performance is many times smaller. The corrugated plate has a regular corrugated surface and different corrugated angles, which can be adjusted to achieve the perfect match between heat transfer and pressure drop.

The most stable cylindrical shell is more suitable for high-temperature and high-pressure conditions, and can withstand strong temperature and pressure impacts. The fluid on both sides can be distributed through a guide plate for a single pass or multiple pass, and the number of pass on both sides can be designed separately according to the working conditions.



TECHNICAL SPECIFICATIONS

Design temperature

-196°C up to 500°C

Plate Connection sizes

DN25 to DN300

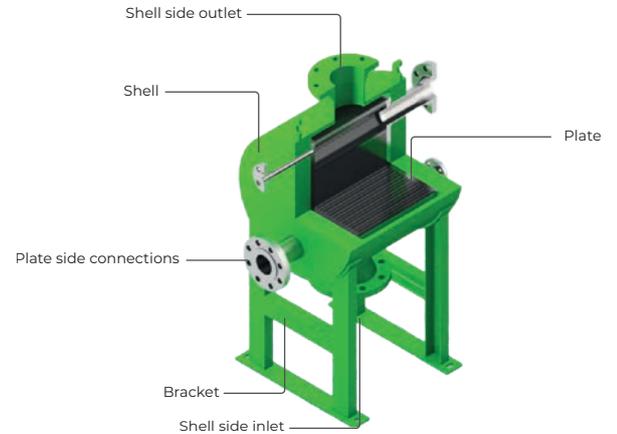
Design pressure

Full Vacuum / 150 Barg

Sizes

2m² up to 2000m²

Stainless steel	Stainless steel / Nickel based alloys	Titanium	Carbon steel
304L 316L Duplex Superduplex	254 SMO C276 904L Alloy 59	Titanium Gr1 Titanium Gr2	SA516 Gr60 SA516 Gr70



Oil&Gas
Refinery



Pulp & Paper



Chemical



Heavy
Industries



Power



Food Production



Clean Energy



Marine

CUSTOMERS BENEFITS

> COMPACT STRUCTURE

The fully welded plate shell heat exchanger has a compact structure and requires very little space for installation and maintenance.

> EFFICIENT HEAT EXCHANGE

The unique plate pattern design enables the fully welded plate shell heat exchanger to generate efficient heat transfer efficiency and achieve a very close end temperature difference.

> SAFE AND RELIABLE

The cylindrical shell is the optimal shape for pressure vessels, with smaller material thickness and weight compared to other structural devices, while ensuring high pressure and reliability.

> LOW MAINTENANCE

Our fully welded plate and shell heat exchanger feature a welded construction, ensuring reliability and easy maintenance. With no gaskets, the risk of breakage or leakage is eliminated. Additionally, they are highly resistant to fouling.

