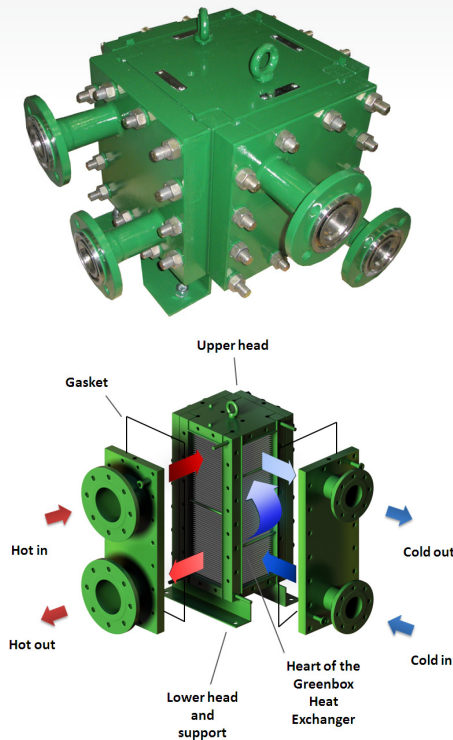




Welded Plate Heat Exchangers GreenBox[®], the most robust of its category



Conception

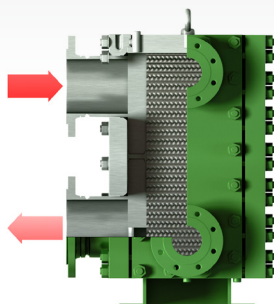
The GreenBox[®] is fully welded compact Heat Exchanger designed for a whole range of applications. This is a complementary welded Heat Exchanger to the Spiral Heat Exchanger. The GreenBox[®] range provides a concentrate of thermal efficiency and compactness, the most robust of its category.

The Nexson Group GreenBox[®] is made of square corrugated plates welded together, forming the heart of the Heat Exchanger. There is no gasket between plates; the waterproofness is done by a weld. Only the removable side panels have gaskets for external sealing. This core is supported by four corner girders and four side panels. The heart of the GreenBox[®] is accessible for inspection of cleaning, by removing the 4 side panels

Applications

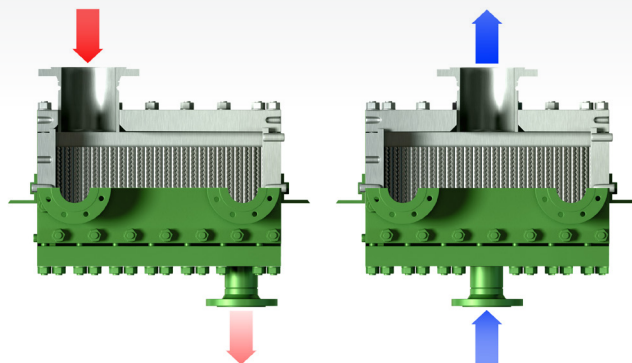
There are two applications : Liquid/Liquid and Bi-phasique. It can be used in various sectors such as refinery, petrol & gas, petrochemicals, coke oven gas, steel, mining, pulp & paper...
All fluid types containing fiber, particles, sludges and other viscous or abrasive medias. It is possible to use it as :

LIQUID/LIQUID



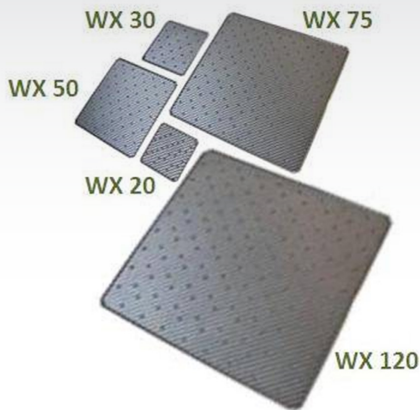
1. Liquid/Liquid
Example in vertical position

BIPHASIC



2. Condenser

3. Reboiler

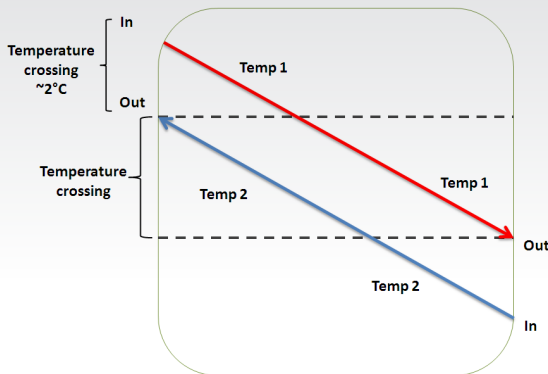


Conditions of use

Temperature design: -40°C up to 350°C
Design pressure: FV / 40 Barg

Materials

304 / 304L, 316 / 316L, UNS S32205, UNS S32750, 904L, 254 SMO, C276, C22, C2000, Titanium



Customer benefit

> ENERGY SAVINGS

Crossed circulation of the fluids allows a high transfer coefficient of temperature. It permits a huge reduction of your energy costs.

> TEMPERATURE TRANSFER MAXIMIZED

The Nexson Group GreenBox® is made of square corrugated plates welded together which maximize transfer coefficient up to about 5 times higher than a classical tubular heat exchanger. It allows a temperature approach about 2°C.

> CORROSION RESISTANT MATERIAL

The GreenBox® compared to another heat exchange can be composed of finer material, staying economical.

> MAINTENANCE COSTS REDUCED

The high wall share stress reduces fouling and consequently maintenance costs.

> LOW INSTALLATION COSTS (COMPACT)

Bloc conception of the GreenBox® allows to maximize high thermic surface transfer, it can be installed vertically or horizontally and it does not need complex installation. This unit ensures a low installation budget.

> EASY ACCESS FOR INSPECTION OR CLEANING

The GreenBox® works in simple or multi-pass and, if needed, the access to the plates, for inspections and cleaning, is given, by simply removing the side panels. Concerning spare parts, there are also gaskets of the panels.

| MODEL | Min AREA (m ²) | Max AREA (m ²) |
|--------|----------------------------|----------------------------|
| WX 20 | 2,40 | 6,10 |
| WX 30 | 6,48 | 25,80 |
| WX 50 | 27,00 | 81,00 |
| WX 75 | 96,00 | 320,00 |
| WX 120 | 340,00 | 847,00 |