Laser-Welded Plate Heat Exchanger
Type XPS

GESMEX

XPS heat exchangers consist of corrugated, round metal plates which are welded together to a plate pack and fitted into cylindrical shells.

Materials

Plate Materials	Shell Materials
Austenitic steels, e.g.:	Ferritic steels, e.g.:
+ 1.4404 / AISI 316L	+ 1.0305 / St. 35.8
+ 1.4539 / AISI 904L	+ 1.0425 / P265 GH / AISI 516 Gr65
Nickel materials, e. g.:	Fine-grain steels, e.g.:
+ 2.4068 / AISI N02201	+ 1.0566 / P355 NL1
Nickel alloys, e. g.:	Austenitic steels, e. g.:
+ 2.4602 / Alloy C-22	+ 1.4301 / AISI 304
+ 2.4819 / Alloy C-276	+ 1.4404 / AISI 316L
Titan materials, e. g.:	Nickel alloys, e. g.:
+ 3.7025 / AISI B265 Gr1	+ 2.4602 / Alloy C-22

Flow directors are made from plate materials as well. No elastomers are used in XPS heat exchangers. Fully welded units are absolutely gasket-free. The standard configuration of openable heat exchangers is with graphite tanged steel flat-ring gaskets.

Dimensions

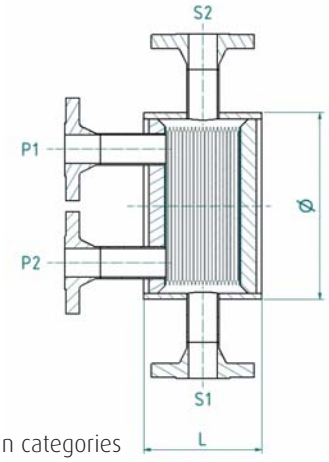
	XPS 50	XPS 100	XPS 150	XPS 200	XPS 300
S1, S2	3/4" – 4"	1"- 10"	2" – 14"	2" – 28"	2" – 24"
P1, P2	2"	4"	6"	8"	12"
Ø [mm]	360	610	890	1.100	1.400
L [mm]	from 150 (depending on number of plates and design pressure) to 2.400				
Area [m²]	1.5 to 30	max 100	max 320	max 500	max 700

Plate material with a thickness from 0.6 to 1.25 mm is used. All sizes can be delivered with H-, L- or G-plates. Liquid hold-up varies from 3 to 1,000 litres per pressure chamber.

Operating parameters

The maximum parameters depend on the size of the unit, the materials used and the thickness of the material.

Operating Pressure: -1 to 150 bar (g)
Operating Temperature: -200 to 500°C
Dynamic Viscosity: up to 8,000 mPa s



Approvals

According to PED, XPS heat exchangers are classified as pressure vessels in categories I - IV. The conformity assessment is according to module G. Before delivery, an individual design and pressure test is carried out for each unit. Some designs are delivered with a type-examination certificate.

XPS 100 – 120 / H 41

type · size · number of plates · plate profile · passes (plate side and shell side)

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