

XLG®S Tube-in-Tube

TUBE-IN-TUBE CORRUGATED HEAT EXCHANGER

Tube-in-Tube corrugated exchanger for industrial and sanitary duties, to process fluids with solids in suspension, fibers, slurries. The heat exchanger is formed by two concentric tubes. Product flows inside the most inner tube and the service outside.

Corrugated tubes in different profiles are chosen to maximize heat transfer and thus minimize the size of the heat exchanger.

The unit is fully welded and lacks gaskets, and includes bellows to absorb thermal expansion.

Design conditions

- Temperature: min -40°C (40°F) / max +180°C (+356°F)
 - Pressure: min full vacuum/max 10 bar (150 Psi)
- Higher temperature and pressure ratings are available subject to a revision of component thicknesses and connection types.

Materials

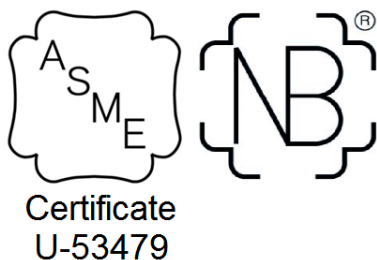
Tubeside in AISI-316L and shell side in AISI-304, AISI-316 or carbon steel (connections included). Other materials available on request (Duplex stainless steels, AISI-321, titanium...).

Industrial & Sanitary Applications

The best option for slurries and products with large particulates in suspension. Efficient and safe.

Connections

Industrial: EN1092-1 standard flanges rated PN10-16 on tube and shell sides, or ANSI#150-300. Sanitary: clamps, I-line, S-line, DIN threaded. Others on request.



ASME & PED

XLG is certified by ASME and holds the U-Stamp for manufacturing heat exchangers. XLG complies the European Union PED 2014/68/EU directive and EN13445 design code.



Maintenance & clogging free

XLG®S tube-in-tubes don't have spare parts so don't need any maintenance at all. Furthermore, S tube-in-tube units never clog with solids and fibers like Spirals and Gasketed exchangers.

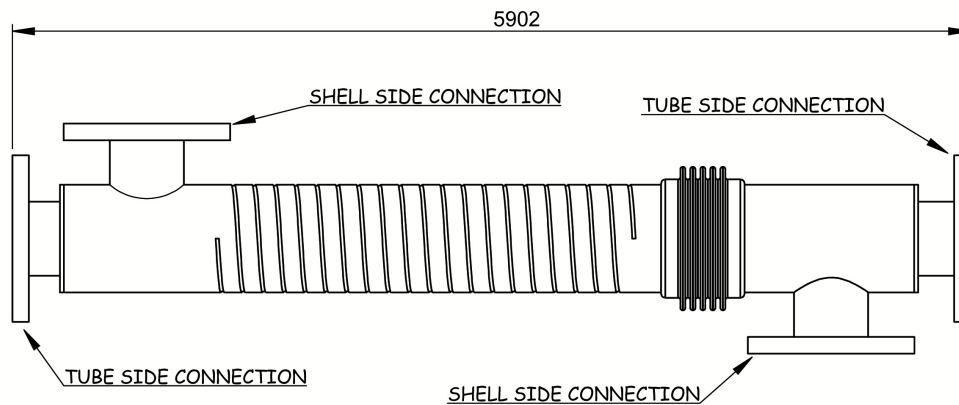


Effective heat transfer

Corrugation enhances heat transfer allowing a faster and more efficient heat exchange. Moreover, high turbulent flow provokes a self cleaning effect that reduces fouling.



S Tube-in-Tube Technical Data Sheet



Model(2)	Connections Shell EN1092-1/ANSI150	Tubes	Exchange Area m2/ft2	Model(2)	Connections Shell EN1092-1/ANSI150	Tubes	Exchange Area m2/ft2
S-38/25	DN20/3/4"	DN20/3/4"	0.5/5.1	S-168/104	DN100/4"	DN100/4"	2.0/21.1
S-51/25	DN20/3/4"	DN20/3/4"	0.5/5.1	S-168/114	DN100/4"	DN100/4"	2.2/23.2
S-64/25	DN20/3/4"	DN20/3/4"	0.5/5.1	S-168/129	DN125/5"	DN125/5"	2.4/26.2
S-64/38	DN32/1 1/4"	DN32/1 1/4"	0.7/7.7	S-204/129	DN125/5"	DN125/5"	2.4/26.2
S-76/38	DN32/1 1/4"	DN32/1 1/4"	0.7/7.7	S-204/140	DN125/5"	DN125/5"	2.6/28.3
S-76/51	DN40/1 1/2"	DN40/1 1/2"	1.0/10.3	S-204/154	DN125/5"	DN150/6"	2.9/31.2
S-89/51	DN40/1 1/2"	DN40/1 1/2"	1.0/10.3	S-219/140	DN125/5"	DN125/5"	2.6/28.3
S-89/64	DN50/2"	DN50/2"	1.2/12.9	S-219/154	DN150/6"	DN150/6"	2.9/31.2
S-104/51	DN40/1 1/2"	DN40/1 1/2"	1.0/10.3	S-219/168	DN150/6"	DN150/6"	3.2/34.1
S-104/64	DN50/2"	DN50/2"	1.2/12.9	S-254/154	DN150/6"	DN150/6"	2.9/31.2
S-104/76	DN65/2 1/2"	DN65/2 1/2"	1.4/15.5	S-254/168	DN150/6"	DN150/6"	3.2/34.1
S-114/64	DN50/2"	DN50/2"	1.2/12.9	S-254/204	DN200/8"	DN200/8"	3.8/41.4
S-114/76	DN65/2 1/2"	DN65/2 1/2"	1.4/15.5	S-273/168	DN150/6"	DN150/6"	3.2/34.1
S-114/89	DN80/3"	DN80/3"	1.7/18.0	S-273/204	DN150/6"	DN200/8"	3.8/41.4
S-129/76	DN65/2 1/2"	DN65/2 1/2"	1.4/15.5	S-273/219	DN150/6"	DN200/8"	4.1/44.5
S-129/89	DN80/3"	DN80/3"	1.7/18.0	S-304/168	DN150/6"	DN150/6"	3.2/34.1
S-129/104	DN100/4"	DN100/4"	2.0/21.1	S-304/204	DN150/6"	DN200/8"	3.8/41.4
S-140/89	DN80/3"	DN80/3"	1.7/18.0	S-304/219	DN150/6"	DN200/8"	4.1/44.5
S-140/104	DN100/4"	DN100/4"	2.0/21.1	S-324/204	DN200/8"	DN200/8"	3.8/41.4
S-140/114	DN100/4"	DN100/4"	2.2/23.2	S-324/219	DN200/8"	DN200/8"	4.1/44.5
S-154/104	DN100/4"	DN100/4"	2.0/21.1	S-324/254	DN200/8"	DN200/10"	4.8/51.5
S-154/114	DN100/4"	DN100/4"	2.2/23.2	S-354/219	DN200/8"	DN200/8"	4.1/44.5
S-154/129	DN125/5"	DN125/5"	2.4/26.2	S-354/254	DN250/10"	DN250/10"	4.8/51.5

Notes:

- (1) Dimensions shown on the drawing above are expressed in mm (millimeters).
- (2) The first number corresponds to the shell diameter in metric, and the second the inner tube diameter also in metric system.
- (3) Standard heat exchanger length can be 6m/20' and 3m/10'. Others on request.
- (4) XLG reserves the right to amend any of the above technical data without prior notice subject to project conditions.