

XLG®SD

DEMOUNTABLE TUBE-IN-TUBE EXCHANGER

Tube-in-Tube corrugated exchanger for 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.

Inner tube and shell can be demounted as a set of O-rings maintain the exchanger fixed.

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 components.

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...).

Tube-in-tube for Sanitary

An efficient demountable exchanger to process fluids with solids in suspension, particulates and slurries.

Connections

DIN/ISO standard ferrule/clamp connections are fit to allow rapid and flexible installation and easy inspection. Others on request.



Sanitary/Hygienic design

XLG®SD units are designed following the world's more stringent specifications held in the European Union and by the 3-A organisation from the USA.



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.

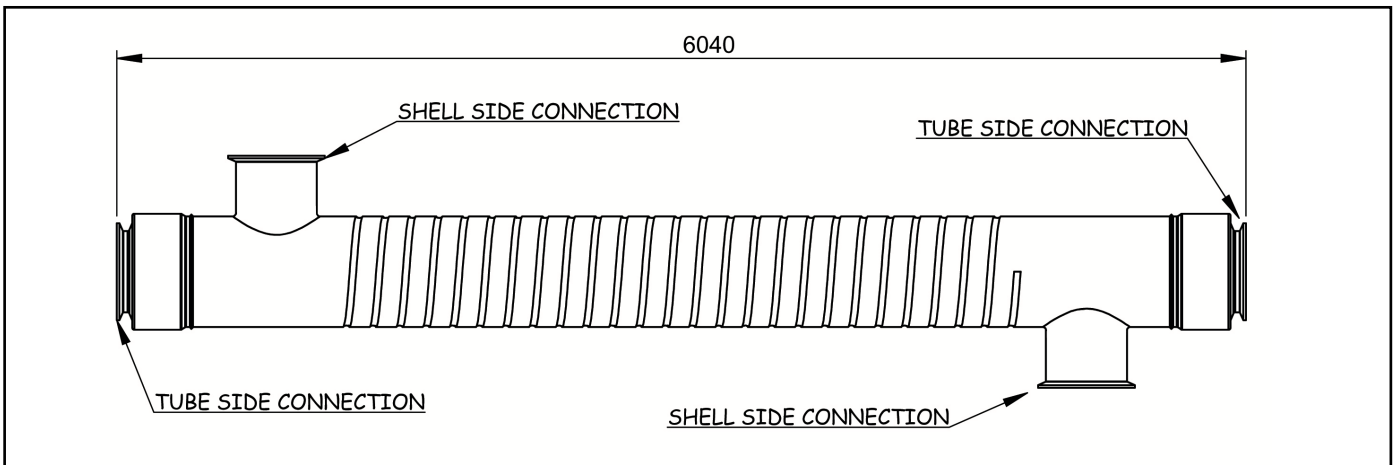


Zero risk of tube clogging

No solid can clog inside the heat exchanger as there's just one path on tubeside. Inner corrugated tube dimensions up to 254mm/10" available for large flows & solids.



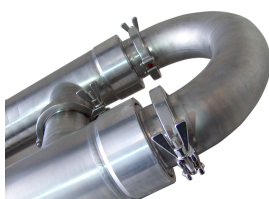
SD Technical Data Sheet



Model(2)	Connections		Exchange Area m ² /ft ²	Volume		Weight (empty) kg/lb
	Shell DIN-ISO/ASME	Tube BPE		Shellside lt/Ga	Tubeside lt/Ga	
SD-64/38	DN25/1"	DN25/1"	0.7/7.7	10.4/112.4	5.8/62.1	22.0/48.5
SD-76/38	DN25/1"	DN25/1"	0.7/7.7	18.4/198.5	5.8/62.1	23.0/50.7
SD-76/51	DN40/2"	DN40/2"	1.0/10.3	13.1/140.9	10.8/115.9	30.0/66.1
SD-89/51	DN40/2"	DN40/2"	1.0/10.3	21.8/234.7	10.8/115.9	32.0/70.5
SD-104/64	DN50/2 1/2"	DN50/2 1/2"	1.2/12.9	28.1/302.7	17.2/185.7	48.0/105.8
SD-104/76	DN65/3"	DN65/3"	1.4/15.5	19.8/212.7	25.3/271.8	52.0/114.6
SD-129/76	DN65/3"	DN65/3"	1.4/15.5	46.3/498.0	25.3/271.8	61.0/134.5
SD-129/89	DN80/3"	DN80/3"	1.7/18.0	36.4/391.7	34.0/365.6	69.0/152.1
SD-140/104	DN100/4"	DN100/4"	2.0/21.1	35.8/385.4	47.1/507.2	77.0/169.8
SD-154/104	DN100/4"	DN100/4"	2.0/21.1	55.1/592.7	47.1/507.2	85.0/187.4
SD-154/114	DN100/4"	DN100/4"	2.2/23.2	44.5/478.6	57.3/617.1	87.0/191.8
SD-154/129	DN125/4"	DN125/4"	2.4/26.2	27.6/297.2	73.6/792.6	90.0/198.4
SD-204/129	DN125/4"	DN125/4"	2.4/26.2	106.3/1144.5	73.6/792.6	115.0/253.5
SD-204/154	DN150/6"	DN150/6"	2.9/31.2	73.0/785.6	106.0/1141.3	175.0/385.8

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.



Easy opening and inspection

XLG SD-Series are fitted with easy-open clamp connections that allow a fast opening of interconnecting bends, moreover units are totally demountable so a full inspection is guaranteed.

In North America Please Contact Southgate Process Equipment for all Inquiries

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