

XLG® I-Series

MULTITUBE FOR INDUSTRIAL APPLICATIONS

Multitube for industrial applications to process low to average viscosity products. Products may be clean or contain fibres, small particulates and slurries.

The heat exchanger is formed by a tube bundle inside a shell. Product flows inside the tube bundle and the service media over the bundle.

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...).

Maintenance free

XLG® I-Series heat exchangers don't have spare parts like gasketed plate heat exchangers.

Connections

DIN standard flanges rated PN10-16 on tubes and shell sides, or ANSI150-300. Others on request.



Robust design

Heat exchangers constructed in stainless steel and designed to PED EN13445 Part 3 and ASME VIII Div.I code, warrant a very long and productive working life and free of corrosion.



Compact design

XLG® I-Series models are a compact heat exchanger that do the job with less heat transfer area than conventional Shell & Tubes. Less footprint and fluid volumes are guaranteed.

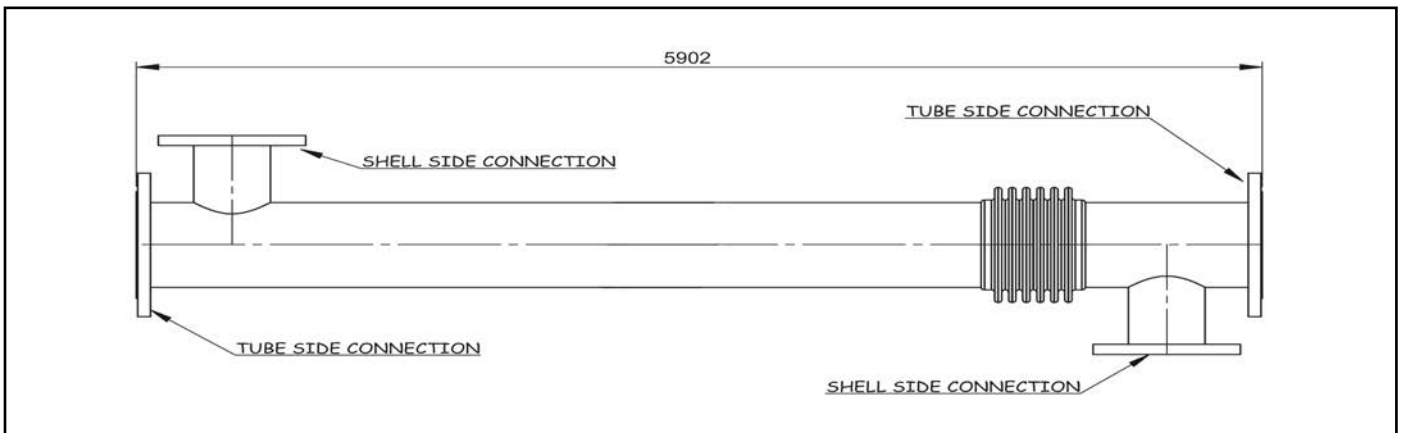


Effective heat transfer

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



I-Series Technical Data Sheet



Model	Connections		Exchange Area ⁽²⁾		Volume ⁽³⁾	
	Shell DIN2502/ANSI150	Tubes	18 mm / 12 mm m ² /ft ²	18 mm / 12 mm m ² /ft ²	Shellside lt/Ga	Tubeside lt/Ga
I-51	DN20/3/4"	DN40/1 1/2"	1.0/11.0	1.6/17.1	6.2/1.6	3.6/1.0
I-64	DN25/1"	DN50/2"	1.4/14.6	2.7/29.2	11.1/2.9	4.8/1.3
I-76	DN40/1 1/2"	DN65/2 1/2"	2.4/25.6	2.9/31.6	14.6/3.8	8.4/2.2
I-89	DN50/2"	DN80/3"	3.1/32.9	4.8/51.1	20.2/5.3	10.9/2.9
I-104	DN65/2 1/2"	DN80/3"	4.4/47.5	7.2/77.9	27.3/7.2	15.7/4.1
I-114	DN65/2 1/2"	DN100/4"	6.4/69.4	9.5/102.3	28.3/7.5	22.9/6.1
I-129	DN80/3"	DN100/4"	7.1/76.7	12.4/133.9	41.6/11.0	25.3/6.7
I-140	DN80/3"	DN125/5"	9.8/105.9	14.2/153.4	42.5/11.2	35.0/9.2
I-154	DN80/3"	DN150/6"	10.9/116.9	19.2/206.9	57.2/15.1	38.6/10.2
I-168	DN80/3"	DN150/6"	14.3/153.4	23.1/248.3	63.1/16.7	50.7/13.4
I-204	DN100/4"	DN150/6"	21.4/230.1	34.2/367.6	88.6/23.4	76.0/20.1
I-219	DN100/4"	DN200/8"	24.8/266.6	39.4/423.6	102.5/27.1	88.1/23.3
I-254	DN125/5"	DN200/8"	34.6/372.5	54.5/586.8	134.1/35.4	123.1/32.5
I-273	DN125/5"	DN250/10"	41.1/441.9	62.4/672.0	151.2/39.9	146.0/38.6
I-304	DN150/6"	DN250/10"	51.2/551.5	78.9/849.7	187.9/49.7	182.2/48.1
I-324	DN150/6"	DN300/12"	59.0/635.5	89.8/966.6	210.6/55.6	209.9/55.4
I-356	DN150/6"	DN350/14"	72.3/777.9	112.9/1214.9	250.7/66.2	257.0/67.9
I-406	DN200/8"	DN400/16"	96.0/1033.5	146.8/1580.1	323.4/85.4	341.4/90.2
I-457	DN200/8"	DN450/18"	122.5/1318.4	188.9/2033.0	408.2/107.8	435.5/115.1
I-508	DN250/10"	DN500/20"	153.7/1654.4	235.0/2529.7	495.9/131.0	546.5/144.4

Notes:

- (1) Dimensions shown on the drawing above are expressed in mm (millimeters).
- (2) Each model includes either 18 or 12 mm inner tubes, so exchange areas change accordingly.
- (3) Volumes are applicable to units with 18 mm inner tubes.
- (4) Standard heat exchangers length can be 6m/20', 3m/10', 2m/6.56', 1.5m/5', 1m/3.3', 0.75m/2.46' and 0.5m/1.64'. Others on request.
- (5) XLG reserves the right to amend any of the above technical data without prior notice subject to project conditions.

In North America Please Contact Southgate Process Equipment for all Inquiries