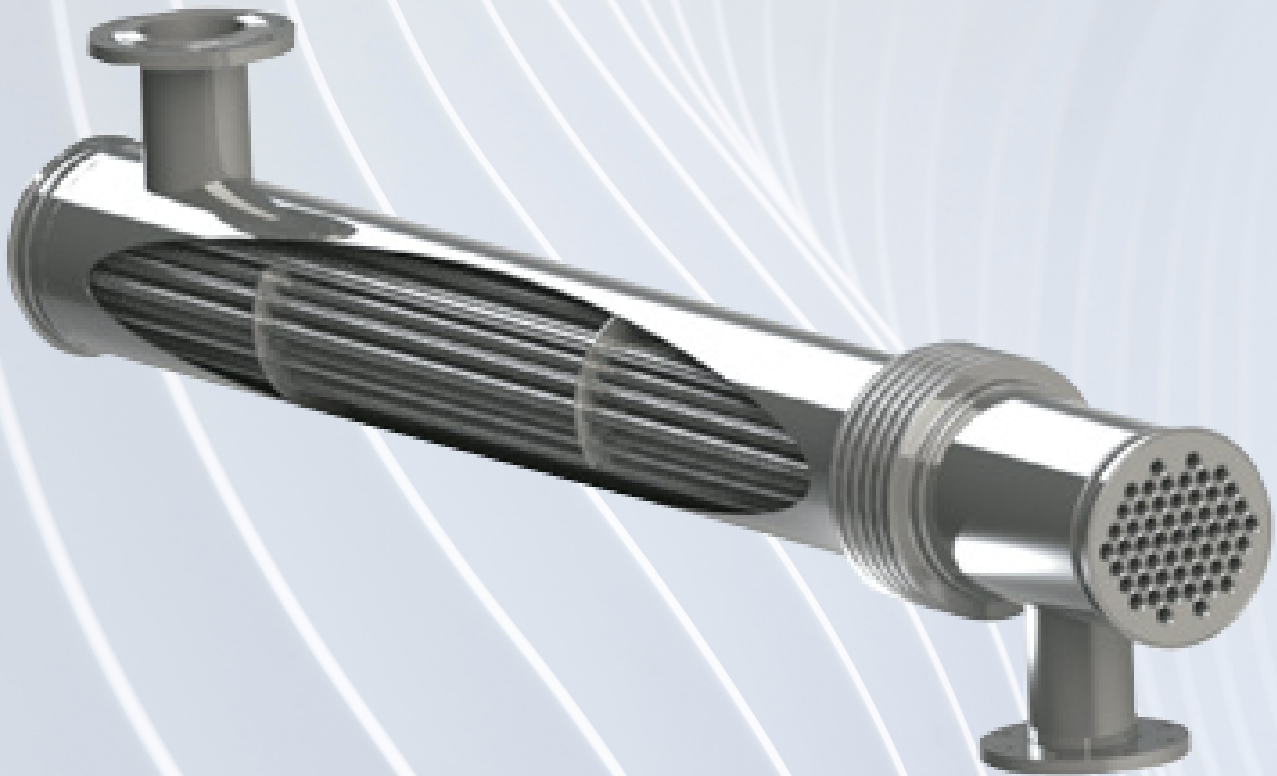


XLG ● ●

XLG®PH PHARMAGRADE



OEMSales

200 East Big Beaver Road, Troy, MI 48083
P: (248) 752-2620 | E: Sales@oemsalesinc.com

MULTITUBE FOR PHARMAGRADE APPLICATIONS

Designed to process liquids and emulsions in the pharmaceutical, biotech and personal care industries, of low to average viscosity.

The heat exchanger is formed by a tube bundle of corrugated tubes inside a shell. Product flows inside the tube bundle and the service outside it.

Main features:

- Double tube-sheets avoid any risk of crossed contamination between sterile product and non-sterile service.
- Inner tubes are welded and roller expanded into the tube-sheets.
- Inner tubes are seamless, with an inner surface roughness Ra minor than 0.5 μm .
- Eccentric reducers are connected to the external-tube-sheet by means of a clamp or sterile flange.
- Self draining design.
- Exchanger free of maintenance.

Materials

Tube side in AISI-316L and shell side in AISI-304, AISI-316 or AISI-316L. Other materials on request.

Design conditions

- Temperature: min -40°C (40°F) / max $+180^{\circ}\text{C}$ ($+356^{\circ}\text{F}$)
- Pressure: min full vacuum/max 10 bar(150 Psi)

Higher temperature and pressure ratings are available subject to a revision of component



High safety multitube

Designed and manufactured following the FDA “Current Good Manufacturing Practices” for High Purity Water Systems

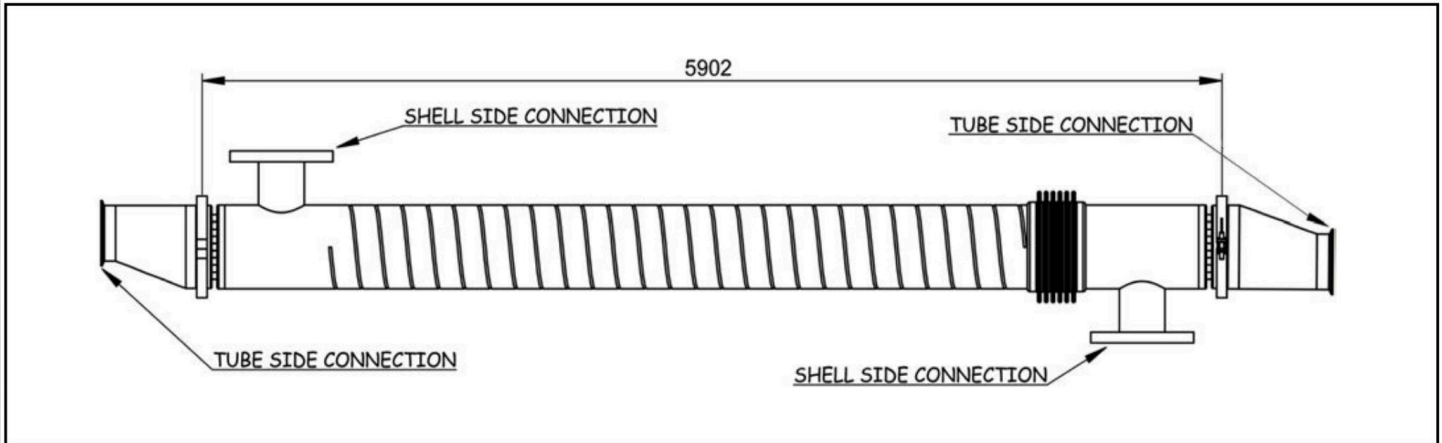


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PH PHARMAGRADE TECHNICAL DATA SHEET



Model	Connections		Heat Exchange Area	Volume	
	Shell	Tubes		Shellside	Tubeside
	DIN-ISO/ASME BPE		m ² /ft ²	lt/Ga	lt/Ga
PH-51/4x13	DN25/1 1/2"	DN20/1"	1.0/10.3	7.7/2.0	1.7/0.4
PH-64/7x13	DN40/2"	DN25/1 1/2"	1.7/18.0	11.9/3.2	2.9/0.8
PH-76/13x13	DN50/2 1/2"	DN40/2"	3.1/33.5	15.4/4.1	5.4/1.4
PH-89/19x13	DN65/3"	DN50/2 1/2"	4.5/49.0	19.5/5.2	7.9/2.1
PH-104/29x13	DN80/3 1/2"	DN65/3"	6.9/74.7	25.1/6.6	12.1/3.2
PH-114/32x13	DN80/3 1/2"	DN65/3"	7.7/82.5	33.0/8.7	13.3/3.5
PH-129/42x13	DN100/4 1/2"	DN80/3 1/2"	10.1/108.2	41.7/11.0	17.5/4.6
PH-140/55x13	DN100/4 1/2"	DN80/3 1/2"	13.2/141.7	45.0/11.9	22.9/6.0
PH-154/69x13	DN125/5 1/2"	DN100/4 1/2"	16.5/177.8	53.6/14.2	28.7/7.6
PH-168/85x13	DN125/5 1/2"	DN100/4 1/2"	20.3/219.0	62.6/16.5	35.4/9.3
PH-204/121x13	DN150/6 5/8"	DN125/5 1/2"	29.0/311.8	96.5/25.5	50.4/13.3
PH-219/151x13	DN150/6 5/8"	DN125/5 1/2"	36.1/389.1	103.3/27.3	62.9/16.6
PH-254/199x13	DN150/6 5/8"	DN125/5 1/2"	47.6/512.8	143.3/37.8	82.9/21.9

Notes:

- (1) Dimensions shown on the drawing above are expressed in mm (millimeters).
- (2) Each model includes seamless tubes 12.7x1.65 mm.
- (3) 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.
- (4) XLG reserves the right to amend any of the above technical data without prior notice subject to project conditions.



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