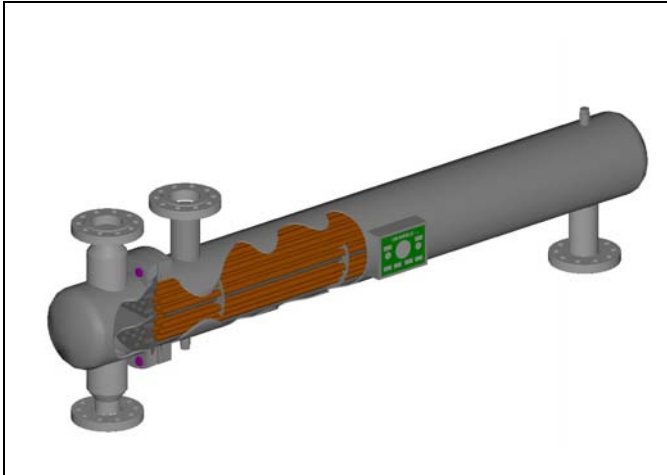


U-BENT HEAT EXCHANGERS P130/160 PED 97/23/CE

2U4U/P160/E	
04	2007

WITH NON-REMOVABLE TUBE BUNDLE AND PLATE 2 OR 4 STEPS TYPE "CEU"



Type **2U**... 2 steps

Type **4U**... 4 steps

DESCRIPTION

GREENFIELD's heat exchangers are designed to cover a wide range of applications, according to PED 97/23/CE, are suitable for heating or cooling high pressure fluids (on tubes side) using other kinds of fluids or steam (on shell side).

Types 2U/4U are made with a cylindrical head, with 2 or 4 steps, perpendicular connections and self-reinforced inlet connections. The tube bundle is non-removable; tubes are welded and expanded on the plate that is a unique piece with the head of the heat exchanger.

GENERAL FEATURES	TUBE SIDE P160 – Design pressure 130/160 bar 99 °C – Art. 3 Par. 3	
	SHELL SIDE P12 – Art. 3 Par. 3 Design pressure 12 bar 99 °C	SHELL SIDE P16 Design pressure 16 bar 204.4 °C

Tubes varying	Fe 35.2 (Carbon-steel) - Ø 18 x 1,5
	Stainless-steel AISI 304 - Ø 19,1 x 2,11
	Stainless-steel AISI 316 - Ø 19,1 x 2,11

Test	PED 97/23/CE – Our standard – Other on request
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Materials	Head	Carbon-steel – Stainless-steel AISI 304 – Stainless-steel AISI 316 – Other on request
	Shell	Carbon-steel – Stainless-steel AISI 304 – Stainless-steel AISI 316 – Other on request
	Tube plate	Carbon-steel – Stainless-steel AISI 304 – Stainless-steel AISI 316 – Other on request
	Tubes	Fe 35.2 (Carbon-steel) – Stainless-steel AISI 304 – Stainless-steel AISI 316 – Other on request
	Diaphragms	Fe 360 (Carbon-steel) – Stainless-steel AISI 304 – Stainless-steel AISI 316 – Other on request
	Gasket	Flexicarb RGS4 (only shell side)
	Tie rods and Bolts	Steel ASTM A 193 B7 / 194 2H

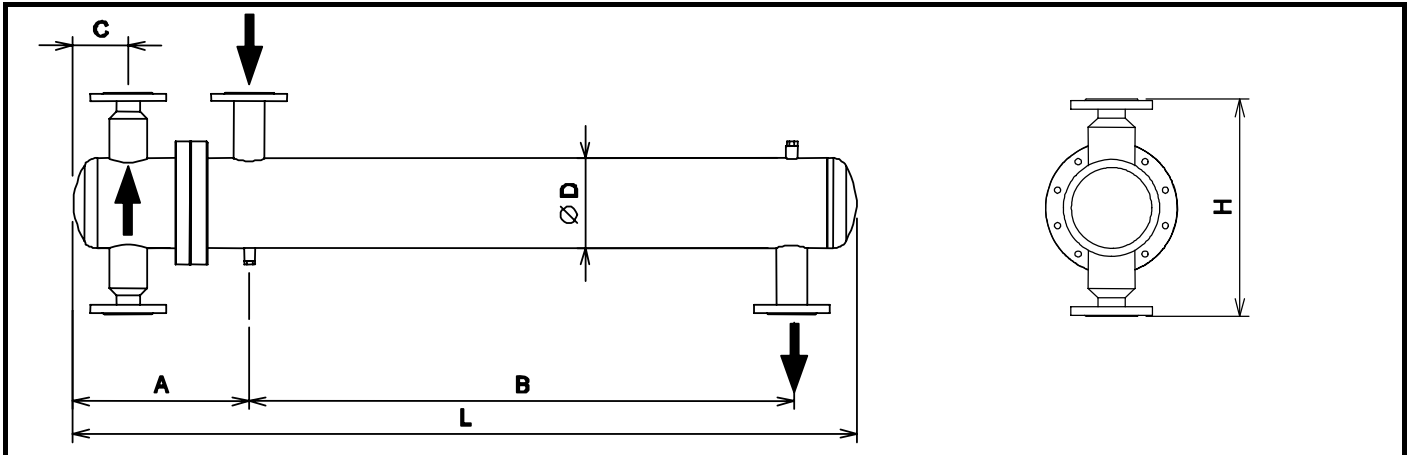
Supports	Type A		Type B			
	Type	Measure	A	B	D	Ø E
A	2	130	-	100	168	16 X 32
B	3	180	120	120	219	16 X 32

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Measures, Dimensions in mm, Connections and Weight in Kg.



Measure	Mod.	Ø D	PED Category		L	A	B	C	H	Head Connections P130/160	Shell Connections		Weight ~ Kg.
			Tube Side	Shell Side							P12	P16	
2	207	168	Art.3	II °	1158	488	540	152	446	DN 40 PN 160 Version P130	DN 65 PN 16	DN 65 PN 40	84
	209				1358		740						87
	211				1558		940						90
	213				1758		1140						97
	215				1958		1340						104
	218				2258		1640						115
	220				2458		1840						122
3	309	219	Art. 3	II °	1470	595	718	180	520	DN 50 PN 160 Version P130	DN 80 PN 16	DN 80 PN 40	117
	311				1670		918						126
	313				1870		1118						135
	315				2070		1318						145
	318				2370		1618						155
	320				2570		1818						165

(1) Other on request