

PRODUCT OFFER

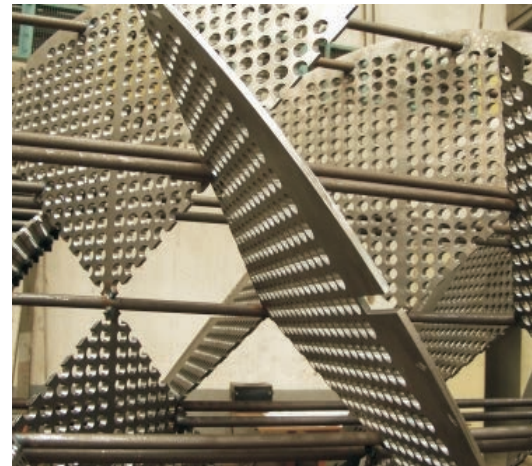
Helixchanger is the specific design of shell & tube heat exchanger where the baffles in the shell side are placed along the helical line. This arrangement of baffles creates the smooth medium flow resulting of smaller pressure drop with reduction of fouling and elimination the need of periodical cleanings. Because of that, **Helixchangers** are particularly suitable for services with high viscous and contaminated fluids where the fouling reduction in the shell side is of great importance for the operators.

Compared to the shell and tube heat exchangers, where baffles are placed perpendicularly to the exchanger axis, for the same heat duty the **Helixchangers** are smaller and cheaper giving the considerable advantages:

- no fouling
- no need of periodical cleanings
- increased heat exchange rate
- lower pressure drop
- lower energy consumption
- elimination of vibration hazards
- longer lifetime of exchanger relatively
- lower investment costs
- lower maintenance costs
- lower LCC

Helixchangers are applied in the refineries in the offshore-plants, petrochemical, paper, food and power plants. There are many examples of application for vacuum residues cooling, reactor effluents cooling, oil-oil heat exchangers, gas-gas heat exchangers, water-water coolers, compressor after coolers, gas-liquid heat exchangers, condensers and reboilers.

Helixchangers are advantageous both in new projects and revamps of existing units. For revamps it is possible to replace tube bundle only, yielding increased capacity and/or thermal efficiency, at the same time reducing the frequency of periodical cleanings.



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EXEMPLARY DELIVERIES

HEAT EXCHANGERS OF "HELIXCHANGER" TYPE

End User Company Name	Year	Quantity [pcs]	Name	Temp. [°C]	Pressure [bar]	Material	Weight [kg]	Code Inspection
PKN Orlen POLAND	2016	1	AEU Helixchanger tube bundle	385/250	36/25	CS/CS	13 960	PED + WUDT 2003
Grupa LOTOS S.A. POLAND	2016	1	AES Helixchanger tube bundle	200/350	25/14	CS/CS	9 100	PED + ASME VIII Div.1
Grupa LOTOS S.A. POLAND	2016	2	AES Helixchanger tube bundle	190/220	35/24	CS/CS	26 800	PED + ASME VIII Div.1
PKN Orlen POLAND	2016	1	AES Helixchanger tube bundle	150/150	21,6/16,9	CS/CS	9 000	PED + WUDT 2003
CB&I Nederland B.V. BASF Antwerp BELGIUM	2013	11	AEU HELIXCHANGER	200	34	CS	5 460 / 42 500	PED +AD 2000
LOTOS ASFALT Sp. z o.o. Gdańsk - POLAND	2010	1	AES Helixchanger tube bundle	300/300	11/11	CS	2.500	PED + WUDT UDT
Grupa LOTOS S.A. Gdańsk, POLAND	2010	3	BEU Helixchanger tube bundle	330/396	30,7/26	CS+ 20MN5	7.800	PED+WUDT UDT
LURGI S.A. - LOTOS S.A. Gdańsk, POLAND	2008	7	AES Helixchanger	200/260	35	CS	20 000	ASME + PED UDT
LOTOS S.A. Oil Refinery Gdańsk, POLAND	2005	1	AES Helixchanger	100/150	8,0/3,0	C-Steel	3.500	PED+WUDT2003 UDT-CE
LOTOS S.A. Oil Refinery Gdańsk, POLAND	2004	1	AES Helixchanger	62/276	23,7/18,2	C-Steel	9.000	PED+WUDT UDT
LOTOS S.A. Oil Refinery Gdańsk, POLAND	2004	1	AES Helixchanger	165/197	27,5/16,5	C-Steel	16.900	PED+WUDT UDT
LOTOS S.A. Oil Refinery Gdańsk, POLAND	2004	1	AES Helixchanger	130/167	23,7/16,5	C-Steel	18.000	PED+WUDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2004	1	AJS Helixchanger	120/65	12/10	SS-1.4541 C-Steel	22.200	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2004	1	AJS Helixchanger	120/65	7,1/10	SS-1.4541 C-Steel	18.300	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2003	1	BES Helixchanger	120/65	41,8/27,9	SS-1.4541 C-Steel	18.700	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2003	2	AJS Helixchanger	120/65	21/14	SS-1.4541 C-Steel	16.300	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2003	1	AJS Helixchanger	120/65	11,2/10	SS-1.4541 C-Steel	20.800	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2003	1	AJS Helixchanger	120/65	6,2/10	SS-1.4541 C-Steel	16.300	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2003	1	AJS Helixchanger	120/65	4,6/10	SS-1.4541 C-Steel	22.000	UDT UDT

