GEABox – Fully Welded Plate Heat Exchangers

Go with the flow

The GEABox is technologically advanced in design and philosophy and is a compact and efficient solution for your heat transfer requirements. The wide-gap design is true free flow, with no contact points and is accessible for easy cleaning by hydro-blasting or water-lancing. The GEABox offers many advantages over traditional shell and tube and other fully welded heat exchangers and includes:

- High heat transfer efficiency compared to shell and tube heat exchangers
- Small footprint, and does not require the space usually needed for pulling tube bundle in shell and tube heat exchangers, means little floor space requirements
- Real free flow channels thus no clogging
- Suitable for fluids that are dirty or fouling or contain fibres, pulps, solids etc.
- Can be easily cleaned and maintained without pipeline dismantling
- Low maintenance costs
- Competitive and lower capital costs

The GEABox, using Free-Flow technology, offers a wide range of customized heat transfer solutions with the advantages of plate heat exchangers and shell and tube heat exchangers – all combined into one unit. Our many years of engineering know how and expertise in optimizing heat transfer means we can understand and comply with the needs of our customers' process requirements.

Heat transfer applications include:

- Liquid or steam to liquids and fluids that are dirty, fouling, contain fibres, pulps, slurries and solids etc.
- Liquid or steam to gas – especially dirty or high fouling where finned or other extended surface exchangers cannot be used
- Reboilers – both thermosyphon and forced circulation
- Liquids to condensing gas, partial or total condensers with inerts, single or multi-component, including various quality cooling media in one unit

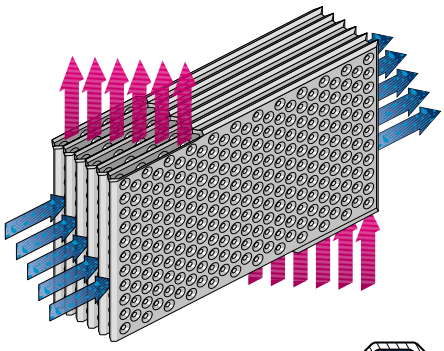
Process Equipment Division

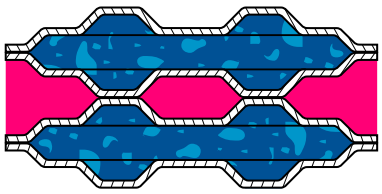
GEA PHE Systems

GEABox – Technical data

Max. Temperature: 300°C/575°F *1
Max. Pressure: 5-10 barg/75-150 PSIg *1
Plate material: 316L, 304L, 904L, Duplex *2, 254SMO, other materials on request
Frame materials: AISI516 Gr. 70
Endplate gasket materials: Klingersil , EPDM, Expanded PTFE
Design codes: ASME, AD2000/PED *3
Material thickness: 1.6 mm, 2.0 mm, other on request

*1 depending on the materials
*2 max. design temperature 280°C
*3 final assembling at GEA Ecoflex





GEABox – Product range

Type	Length –>		T		S		M		L		X	
			mm	inches	mm	inches	mm	inches	mm	inches	mm	inches
			1,472.30	58.00	1,778.00	70.00	2,387.60	94.00	2,997.00	118.00	3,606.80	142.00
	Width		Area per plate		Area per plate		Area per plate		Area per plate		Area per plate	
	mm	inches	m²	ft²	m²	ft²	m²	ft²	m²	ft²	m²	ft²
BX 450	435.60	17.15	0.64	6.90	0.77	8.34	1.04	11.19	1.31	14.05	1.57	16.91
BX 600	588.00	23.15	0.87	9.32	1.05	11.25	1.40	15.11	1.76	18.97	2.12	22.83
BX 750	740.40	29.15	1.09	11.73	1.32	14.17	1.77	19.03	2.22	23.88	2.67	28.67
BX 900	892.80	35.15	1.31	14.15	1.59	17.09	2.13	22.94	2.68	28.80	3.22	34.66

GEA PHE Systems – Competence in Heat Transfer

With emphasis on the highest quality standards and constant innovations, GEA PHE Systems continues to expand its market position: Within the GEA Process Equipment Division, GEA Ecoflex together with GEA ViEX, GEA WTT, GEA Ecobraze, GEA PHE Systems NA and GEA EcoServe forms GEA PHE Systems, the Center of Competence and Service Center for gasketed, fully welded and brazed plate heat exchangers of GEA Group:

- HVAC
- Refrigeration
- Sugar
- Chemical
- Paper
- Food
- Power
- Marine
- General Industry
- Renewable Energy

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