Gasketed Plate Heat Exchanger Differentiation

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Compact Heat Exchangers
Energy efficiency
– A huge potential for heat exchangers

Source: IEA. Possible scenario in 2035 if we act on both implemented and announced policies.
Global heat exchanger market
2012

Total heat exchanger market
10 600 MEUR

- Plate & Frame 30%
- Shell & Tube 26%
- Air Coolers 19%
- Other 12%
- Cooling Towers 13%

Plate & frame HE market
2 700 MEUR

- Gasketed 58%
- Brazed 17%
- Welded 23%
- Other 2%

Gasketed Plate Heat Exchanger

– Market potential growth

2012
1 500 MEUR

2018
2 000 MEUR

Alfa Laval heat exchanger portfolio

- AlfaDisc
- AlfaRex
- Compabloc
- Semi-welded
- Gasketed
- Brazed
- Shell & tube
- Shell & tube, Aalborg
- AlfaNova
- Spiral

Pressure (barg)
Temp (°C)
Gasketed plate heat exchanger
– used in most industries

Biofuels
Biotech and pharmaceutical
Chemicals
Crude oil refinery
Engine and transport
Fluid power
Food and beverages
HVAC
Industrial fermentation
Latex
Machinery

Marine and diesel
Metal working
Mining and mineral processing
Oil and gas
Power
Pulp and paper
Refrigeration and air-conditioning
Semiconductor systems
Steel and coke oven gas
Sugar
Wastewater treatment

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1931

- 13 mm thick plate
- Milled pattern
- Liquids passed the plates one by one
- Tinned brass
- Up to 5 m² heat transfer area per unit

Today

- Down to 0.4 mm plates
- Pressed plates
- Liquids pass all the plates in one go
- Various materials
- Up to 3,000 m² heat transfer area per unit
Heat transfer efficiency

Thickness

Area utilization

Pattern
Focus on R&D

- Strong focus on R&D to develop new products as well as improve existing
- World leading manufacturing technology
- All new products have patent protection
- New products and manufacturing technologies key for profitable growth
Introducing our latest innovation

Alfa Laval T35 plate heat exchanger
Alfa Laval T35
– designed for high productivity and low lifetime cost

Includes several innovations to:

* Reduce maintenance cost
* Increase uptime
* Maximize heat transfer
Summary

- A great potential and a growing market
- A product technology that is continuously differentiated with our unique competence and knowledge

[Bar chart showing the different sectors and their energy efficiency potential, with a red dashed box indicating that heat exchangers play a vital role.]