



October 2012

The inside story on the new, high-performance brazed plate heat exchanger generation

Models in the new generation of brazed plate heat exchangers from heat transfer technology leader Alfa Laval may look very similar to other units, but inside it's a completely different story. Innovative design improvements have given the new range much higher performance in terms of thermal efficiency, resulting in energy and cost savings for customers.

The inside story

We are happy to present a completely new range of brazed plate heat exchangers (BHEs) for the Refrigeration market. Innovative design improvements have given the new range higher performance in terms of thermal and energy efficiency. A clear benefit for everyone looking for the best solution on the market.

The new design enables that a smaller unit can be installed to handle the same duty. Alfa Laval has achieved this by increasing the heat transfer area within the same dimensions. The result is the same performance capacity in a heat exchanger with a smaller footprint. The new models in the brazed range are available with varying plate patterns and connections for all Refrigeration applications.

Product lines optimized for different applications

Brazed plate heat exchangers product line includes CB (Copper Brazed) unit and AC (Alfa Chill) units, developed to work in air conditioning, refrigeration, chiller and heat pump equipment as well for a variety of general duties. The evaporator units have different distribution systems developed to ensure the optimal performance in all condition.

Both CB (Copper Brazed) and AC (Alfa Chill) line ensure substantially higher thermal efficiency due to an optimized plate pattern. The introduction of asymmetrical plate channels in these products enables even more options to choose from.

The CBXP (Copper Brazed X-treme Pressure) and AXP (Alfa X-treme Pressure) lines are specifically developed to work with CO₂ and other refrigerant applications, where the pressure requirements are extremely high. The X-treme Pressure line can withstand design pressures up to 130 bar in subcritical and transcritical applications.

Less environmental impact

In the new copper brazed models the usage of material has been optimized, resulting in fewer plates. This translates to less material for the same duty and improved energy utilisation, which benefits the environment.



Same interface, easy to upgrade

The new generation is highly flexible with a number of configurations and capacities to choose from, including both asymmetrical and symmetrical plate patterns. This enables the installer to choose the optimum model for the duty. Since the new models have the same or similar connections and dimensions as the previous models – customers wishing to upgrade to the new generation do not need to invest in redesigning their systems.

About Alfa Laval:

Alfa Laval is a leading global provider of specialized products and engineering solutions based on its key technologies of heat transfer, separation and fluid handling.

The company's equipment, systems and services are dedicated to assisting customers in optimizing the performance of their processes. The solutions help them to heat, cool, separate and transport products in industries that produce food and beverages, chemicals and petrochemicals, pharmaceuticals, starch, sugar and ethanol.

Alfa Laval's products are also used in power plants, aboard ships, in the mechanical engineering industry, in the mining industry and for wastewater treatment, as well as for comfort climate and refrigeration applications.

Alfa Laval's worldwide organization works closely with customers in nearly 100 countries to help them stay ahead in the global arena.

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