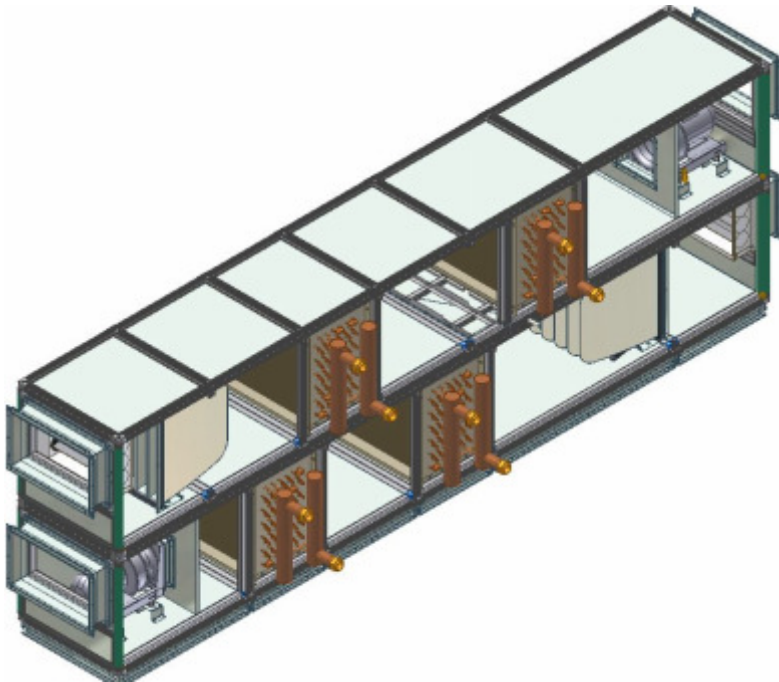


Efficiency in food and energy processes

The GEA ECOFLOW optimized liquid-coupled heat exchanger system

Optimal exploitation of throughflow area

If – for employment of a GEA CAIR*plus* air-handling unit – the supply-air and extracted-air flows cannot, as a result of building design, be merged in one unit – or if the application demands complete air-flow separation – the situation calls for liquid-coupled heat exchanger systems such as GEA ECOFLOW for energy recuperation. Finned tube heat exchangers transfer the heat removed from the extracted air, via a brine cycle, to the supply air. The most recent version of the GEA liquid-coupled heat exchanger system can be dimensioned such that the collector pipes of the heat exchanger lie outside the cross-section of the unit. The “fullface” version increases the output and reduces pressure drops, since the unit cross-section in this solution is almost completely available as finned surface for heat exchange. This means lower operating costs. In some cases, if the input of residual heat or cold takes place directly in the brine cycle, it is even possible to eliminate the use of downstream heaters or coolers.



This “fullface” version increases output and reduces pressure drop with the GEA ECOFLOW liquid-coupled heat exchanger system.

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About GEA

GEA Group Aktiengesellschaft is one of the largest systems providers in the food and beverages industries and in energy production. Group sales in 2010 were more than 4.4 billion euros. As an internationally active technological enterprise, GEA Group has concentrated on process engineering and components for demanding production processes in a wide range of end-user markets. The Group generates around 70 % of its sales in long-term growth industries for food, beverages, and energy. As of 31 December 2010 the Group internationally employed more than 20,000 staff. In its business areas, GEA Group is among the leading companies on the market and in technological developments. GEA Group is listed on the German MDAX stock index (G1A, WKN 660200).