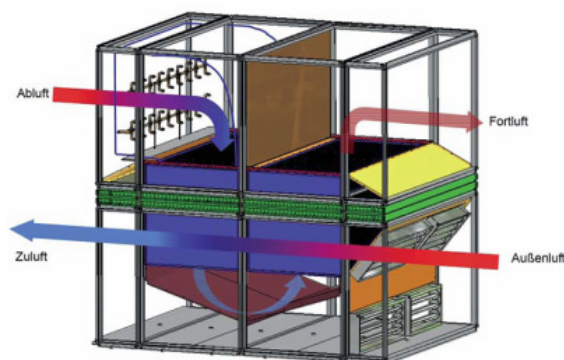


Efficiency in food and energy processes

GEA CAIRplus air-handling units: additional features

Adiabatic cooling ex works

GEA CAIRplus air-handling units for air flow from 3,000 to 23,000 m³/h are now available with adiabatic cooling from the GEA factory. These models cool extracted air up to the point of saturation. The cold produced by evaporation is then transferred to the supply air via energy recuperation. A downstream-installed cooling coil then regulates the temperature of the cooled air supply and its relative humidity to the desired level. The new directly sprayed ECOTWINcool double-plate heat exchangers enable energy-saving adiabatic cooling. Their heat-exchanger surfaces for energy recuperation are also used as evaporation surfaces. The prerequisite here is completely separated flows for supply and extracted air. On the inside of the units, special fine-spray nozzles humidify the exhaust air at a pressure of not more than 4 bar, with the result that the surfaces of the double-plate exchangers are uniformly wetted, and that operation without pressure-increase pumps is possible. Since recirculated water is not used here, operation is hygienically unobjectionable. With efficiency of up to 75 %, GEA developers have achieved very high cooling duty, referenced to saturation temperatures. Since it is not necessary for downstream chillers to run continuously, a reduction of 60 % of annual energy consumption can be expected.



The heat-exchange surfaces of the GEA ECOTWINcool are completely used as evaporation surfaces.

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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).