

## Efficiency in food and energy processes

**Central air-handling unit GEA COM4*plus* with direct evaporator**

### **Saving energy with pre-configured solutions**

Wherever partial climate-control solutions are called for, demand is rising for pre-configured equipment with integrated system control and efficient energy recuperation. The GEA COM4*plus* range of systems provides a ready-to-connect compact solution for the output range from 2,000 to 30,000 m<sup>3</sup>/h output – with models that combine all required HVAC functions in one enclosure. These include continuously variable air-flow control via directly driven fans and integrated energy recuperation. Selection is possible between plate and rotary heat exchangers, depending on requirements. These models capture up to 90 % of thermal energy contained in extracted air, to be used again inside the building.

GEA COM4*plus* can be effectively combined with other components such as chillers and heat pumps. As a result, GEA offers ventilation units for indoor or outdoor installation, with air flow up to 7,000 m<sup>3</sup>/h, now combined with inverter-controlled compressor-condenser units by Mitsubishi – an equipment combination with extremely great system efficiency. Heat pumps from the Mr. Slim range provide cooling duty up to 42 kW and heating up to 43 kW. They are controlled by constant evaporation temperature or via an external 0...10-V signal (e.g., GEA MATRIX 4700), on the basis of supply-air temperature control. Hot-gas bypass control with high energy consumption is not necessary. The quietly operating unit features coated copper-aluminum condensers and an integrated electronically-controlled expansion valve.

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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).