

efficiency in food and energy processes.

Cooling towers for industry and for building climate control

Tailor-made from standard modules

GEA Polacel cooling towers have been designed for process cooling in the petrochemical industry and in the food and beverage sector – and for heat removal in building climate control. The spectrum of offerings includes various solutions, including CMDR cooling towers operating on the counterflow principle. Here, water flowing downward meets a stream of air being pulled upward by a fan. This enables great cooling capacity, compact enclosures, low power costs, and low evaporation levels. Advanced motors also contributed to efficient handling of resources. For example, permanent-magnet motors can be installed instead of conventional motors with V-belts and gears. This not only raises efficiency but also enhances the reliability of the drive system.

Thanks to the expandable and flexible GEA Polacel module system, standard solutions are possible for use in many applications. Here, the modular components for the required cooling duty and ambient conditions are assembled as necessary. Tailored solutions satisfy special requirements. The modules are delivered ready for use and can be installed in rows or in blocks.

In order that not only cooling duty suffices but also that good relations prevail with neighbors, the sound emission level plays a major role. Special measures ensure quiet operation: for example, installation of larger fans that operate at slower speeds, and floating dampers for the impact noise of falling water.



Picture: Polacel_Cooling_Tower.jpg

The Polacel Range of cooling towers features modular design in offering tailored solutions from standard components.