



The rack cabinets are set up facing each other in rows, following the hot aisle/cold aisle principle.

#### Cold/hot aisle

Cold/hot aisles are implemented through on-site separation. The cold air is blown out by the Top-Cooler into the air-permeable intake side of the rack units. The air is then taken in by the IT components and heated. On the rear of the rack, the air flows into the hot aisle, where it is immediately taken in and cooled by the Top-Cooler. The racks are set up in rows facing one other - hot to hot, and cold to cold.

**Top-Cooler** | Rack-independent air/liquid cooling units which are positioned above the rack units to fully compensate for the heat of the IT components. The rack units are set up on the basis of the cold aisle/hot aisle principle. The high performance coolers, specially developed for this application, achieve maximum performance even at high flow temperatures and require little installation space. High availability is ensured due to the small number of system components. The monitoring overhead for these components can be reduced to a minimum.

- High cooling capacities of more than 30 kW per double rack with maximum energy efficiency. Top-Cooler makes a significant contribution towards a minimum PUE value.
- Arbitrarily expandable system
- No restrictions due to different rack cabinet models
- No raised floor required for cooling
- The cooling system supports very flexible cable routing
- Because the hot aisle is encapsulated, the room temperature is 20°–22°C
- Low maintenance overhead

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