GOHL-KTK
Cooling for life

Cooling Tower Series ERI

Cooling tower with closed circuit

No contamination in the cooling water network

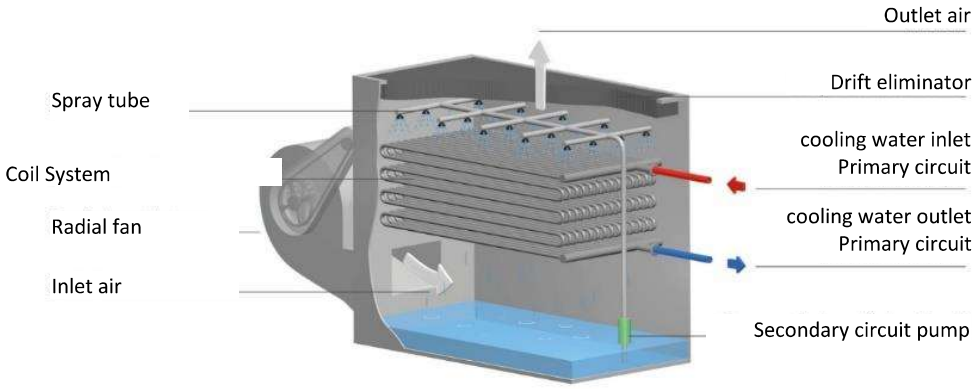
PRODUCT FLYER



GOHL-KTK
MADE IN GERMANY

- Safe system separation
- Compact, powerful, adaptable
- High efficiency
- Dry operating possible

FORCED DRAFT EVAPORATIVE COOLING TOWER WITH CENTRIFUGAL FANS FOR CLOSED CIRCUIT



Application

The closed cooling tower **ERI** is used there where a cooling water consumer should be operated with clean water without deposits and corrosion. Easy hydraulic connection through the closed circuit, no direct contact of the ambient air with the cooling water, dry operation at low external outside temperatures possible.

- Inside installation (building/machine room)
- Exterior installation
- Building air conditioning
- Industrial process cooling

Functional principle:

The cooling of the process heat is generated through the evaporation of the natural coolant - water. In the counter-current a heat and mass transfer takes place between the cooling water and the surrounding air. For an evaporative cooler with closed circuit the ambient air does not come into direct contact with the cooling water. the water flows for cooling a consumer through a closed tube coil system, which forms the primary circuit. This keeps the cooling water clean always and there are no deposits in the circulation. For re-cooling of the primary circuit the tube coil system is sprayed with the water pumped in the secondary circuit and cooled by the condensation.

Low noise radial fans

The fans are upstream from the device. They press the fresh air optimally into the device and thus have no service life reducing factors of the exhaust to compensate for. The blades of the fan wheels are curved allow a low speed. Due to the considerable pressure reserves, additional silencers can be used for the cooling tower.

Accessibility

Inspection hatches enable adjustment of the integrated fittings, the control and service and the cleaning of the water collection tank.

Compact housing

The water collection tank made of 2 mm stainless steel sheet is integrated in the housing. The housing including the water collection tank forms a complete unit. Baffles arranged in the tank area ensure a uniform air distribution and at the same time reduce the wave movement of the water.

Option: Fully welded housing

During this the sheet metal panels are welded with each other in a specially developed welding process. Through this media temperatures up to 90°C are possible. The bottom of the water collection tank has an incline of 2 %. This prevents puddles to remain when emptying the tank and thus at shutdown forming germs hazardous to health.

Water distribution

Water distribution with self-cleaning nozzles made of PP, in stainless steel design. The nozzle pipes can easily be removed from the main pipe using a plug-in connection.

Tube bundle heat exchanger

The tube coil system is made of full wall steel tubes and after manufacture the exterior is galvanised in a full bath.

Performance improvement in dry operation

Optional: Through the attachment of a finned cooler package onto the evaporative cooler ERI, a dry cooling element is connected with the wet cooling and thus achieves an increased drying performance.

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