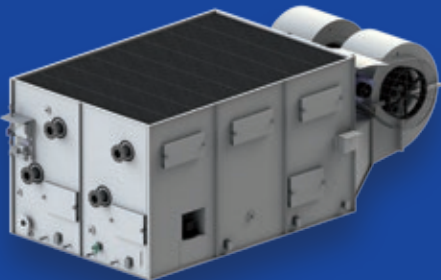
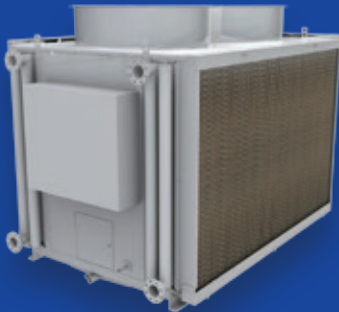
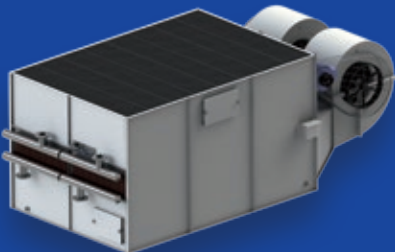
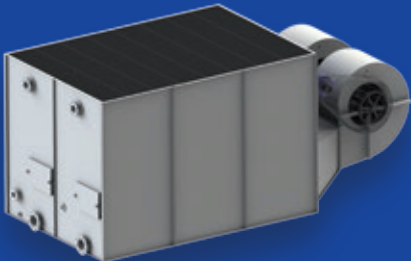


PRODUCT OVERVIEW

2013\_02.en







## PERFORMANCE

For more than half a century the company E.W. Gohl has been ranking among the market leaders in the field of cooling tower manufacturing. The Gohl brand stands for superior quality and long-time know how. It is our aim to offer to our customers efficient system solutions with reliable operational safety. A comprehensive range of product lines and custom-made equipment by modular design guarantee the perfectly fitting system solution, even for most challenging requirements.

## QUALITY

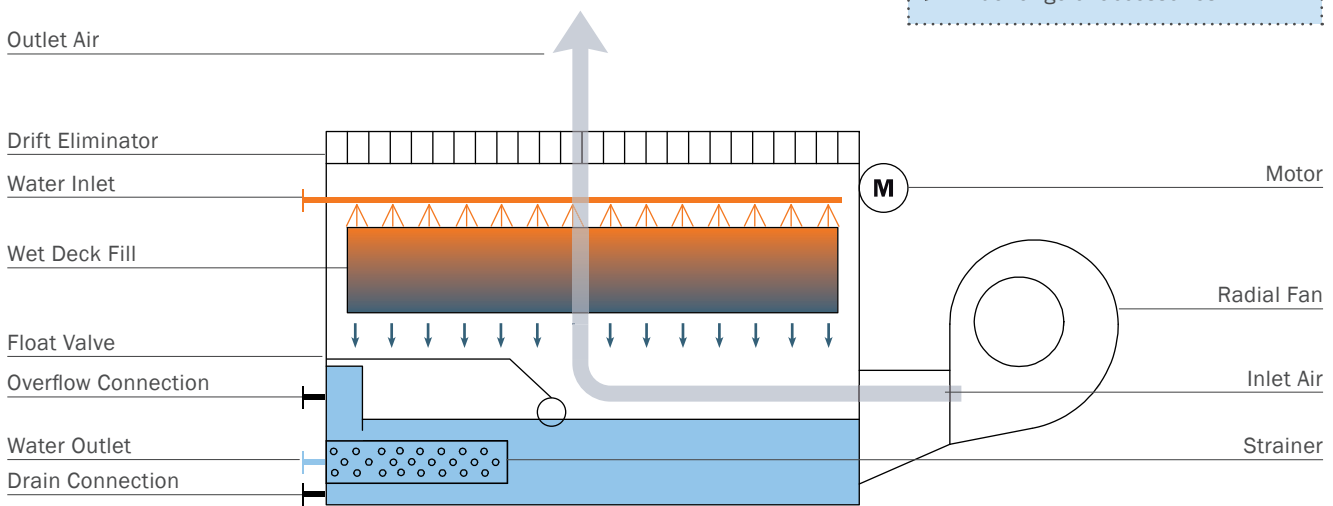
***Permanently good coolinging*** –Gohl manufactures cooling towers with an extraordinarily long durability and little maintenance requirement. This is ensured by high quality materials and solid constructions, manufactured by competent expert staff. The hot-dip galvanised metal sheets are additionally coated with a very resistant long time corrosion protection by means of vortex sintering.

## SERVICE

Our employees are our excellence. We support our partners during project planning, realisation and offer extensive services during the entire life cycle of the appliances. We do not only start up cooling towers, but also erect complete and disassembled towers. Furthermore, a maintenance and repair service with a comprehensive spare parts stock is at your disposal. The competent team consisting of service staff, qualified engineers and technicians is located regionally in order to be quickly in situ.

► **COOLING TOWER DT** The DT cooling tower is used where large amounts of water are required for refrigeration machines and / or low cooling water temperature should be reached. There are not set high standards for water quantity. In the Industry the cooling water of air compressors, diesel engines and generators, e.g. rolling stock, lubricating oils and cooling emulsions, etc. can be re-cooled and reused. The application of a cooling tower for water re-cooling is based on the high vaporization heat of water. Through the application of a re-cooling unit some appreciable water saving of up to 98% can be achieved. Space-saving design, easy assembly and extensive accessories make the DT cooling tower unbeatable. ◀

- Benefits**
- No great demands on cooling water quality
  - Low cooling water temperatures (about 5K on wet bulb temperature)
  - High efficiency by space-saving design
  - Straight forward system
  - Low noise level
  - Lightness
  - Low power consumption
  - Very low cost level
  - Easy installation
  - Wide range of accessories



- Benefit**
- Higher cooling capacity by smaller space

► **COOLING TOWER DT XL** With the Cooling Tower DT XL Gohl has further developed its standard program to access requirements, such as respond to limited space. Indeed, its cooling capacity is 15 % higher than the cooling capacity of the standard tower while maintaining the floor space. ◀

- Benefit**
- Horizontal ducting, exhaust air deflector is integrated in the device - no incidence of debris from above

► **SIDE-STREAM COOLING TOWERS SK** The side-stream cooling tower is used where large amounts of water are required for refrigeration machines (as with the vapor tower), but where the installation conditions, for reasons of space, only allow a lateral connection of the air duct system, e.g. in the mezzanine, basement and rooms with low ceilings. ◀



► **AXIAL COOLING TOWER VAP** The axial cooling tower VAP is applied where large amounts of water are required for refrigeration machines and / or low cooling water temperature should be reached. There are not set high standards for water quantity. In the Industry the cooling water of air compressors, diesel engines and generators, e.g. rolling stock, lubricating oils and cooling emulsions, etc. can be re-cooled and reused the application of a VAP cooling tower for water re-cooling is based on the high vaporization heat of water. Through the application of a re-cooling unit some appreciable water saving of up to 98% can be achieved. Efficiency, simple assembly, corrosion resistance and the extremely lightweight design predestine the application of a VAP wherever high re-cooling performance has to be dissipated on limited installation surface, or only limited roof loads are accepted due to static reasons of buildings. ◀

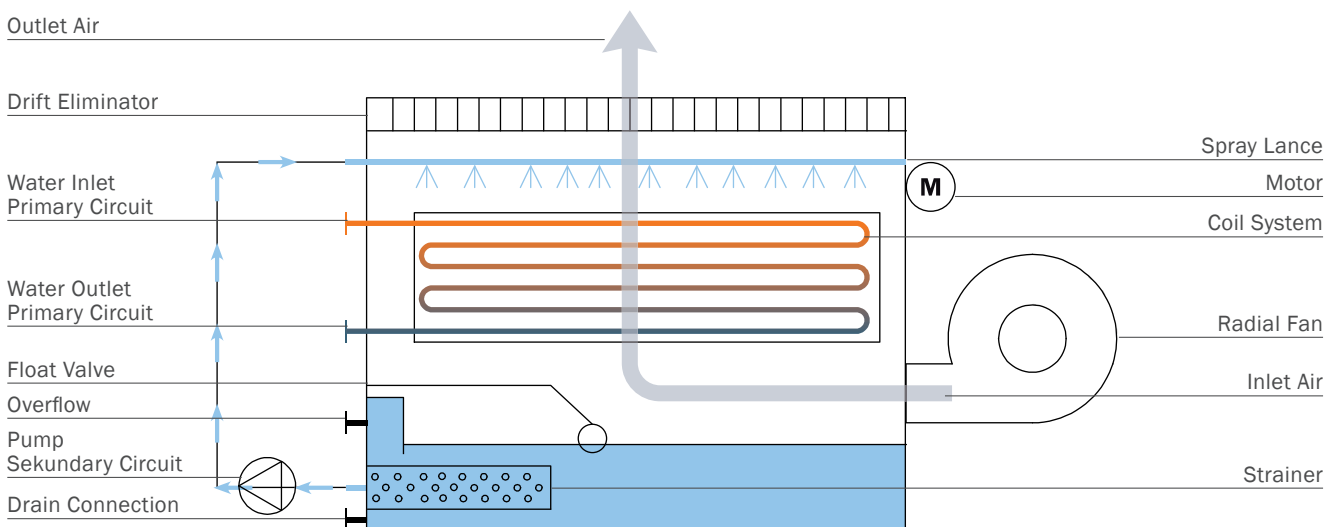
#### Benefits

- Very small installation surface
- Very low water outlet temperatures
- Smallest weight of all re-coolers with equal cooling capacity
- Easy maintenance
- Easy accessibility by big maintenance opening
- Completely decomposable for cleaning purposes
- Direct drive without V-belt and without gearbox
- Least expensive and most efficient kind of re-cooling
- Uncomplicated and robust system
- Very low acquisition cost
- Low electric power consumption
- Water quality according to VDI 3803 applicable without limitations
- Further sound reduction possible by use of silencers

▶ **EVAPORATIVE COOLER VK** The water which is to be cooled flows via an inlet in the top header into a coil system and represents the first circuit. The vice pumped water to wet the coil system evaporates and forms the secondary circuit. Closed circuit coolers are especially advantageous in situations where a machine requires clean water which does not form deposits nor is corrosive. The VK enjoys a relative compact design. The units can be installed in the outdoor and do not require expensive “built up” area. With an appropriate antifreeze agent a year-round operation is well realized. ◀

### Benefits

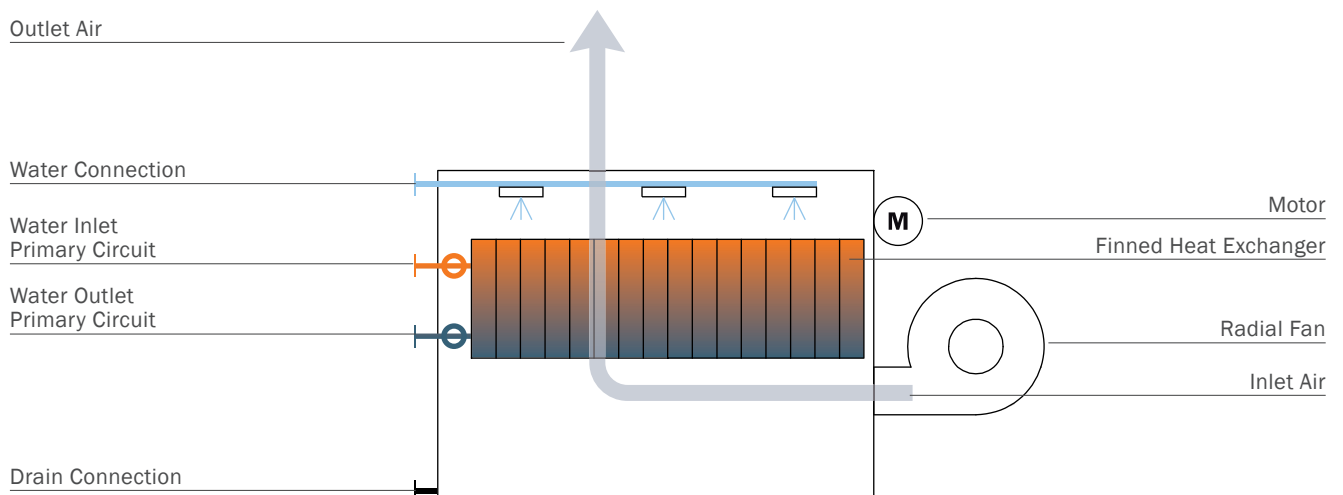
- ▶ No deposit in the cooling water system
- ▶ Possible shutdown of the secondary circuit in the cooler season (only operates with air cooling)
- ▶ Compact design
- ▶ No necessity of enclosed space
- ▶ Lower water treatment cost



► **HYBRID COOLER** The hybrid cooling system is a combination of wet and dry cooling systems for the environmentally friendly heat exchange at the ambient air. It combines the advantages of wet and dry cooling without accepting the disadvantages. In the hybrid cooling system cooling is effected at high ambient air temperatures by evaporation, at medium by convection with humidification and at low ambient air temperatures only by convection. By humidification or sprinkling of the heat exchanger an additional cooling effect can be achieved due to the evaporation of the water at the surface of the heat exchanger. This makes it possible to cool down the medium below the ambient air temperature, which is reflected in the investment costs

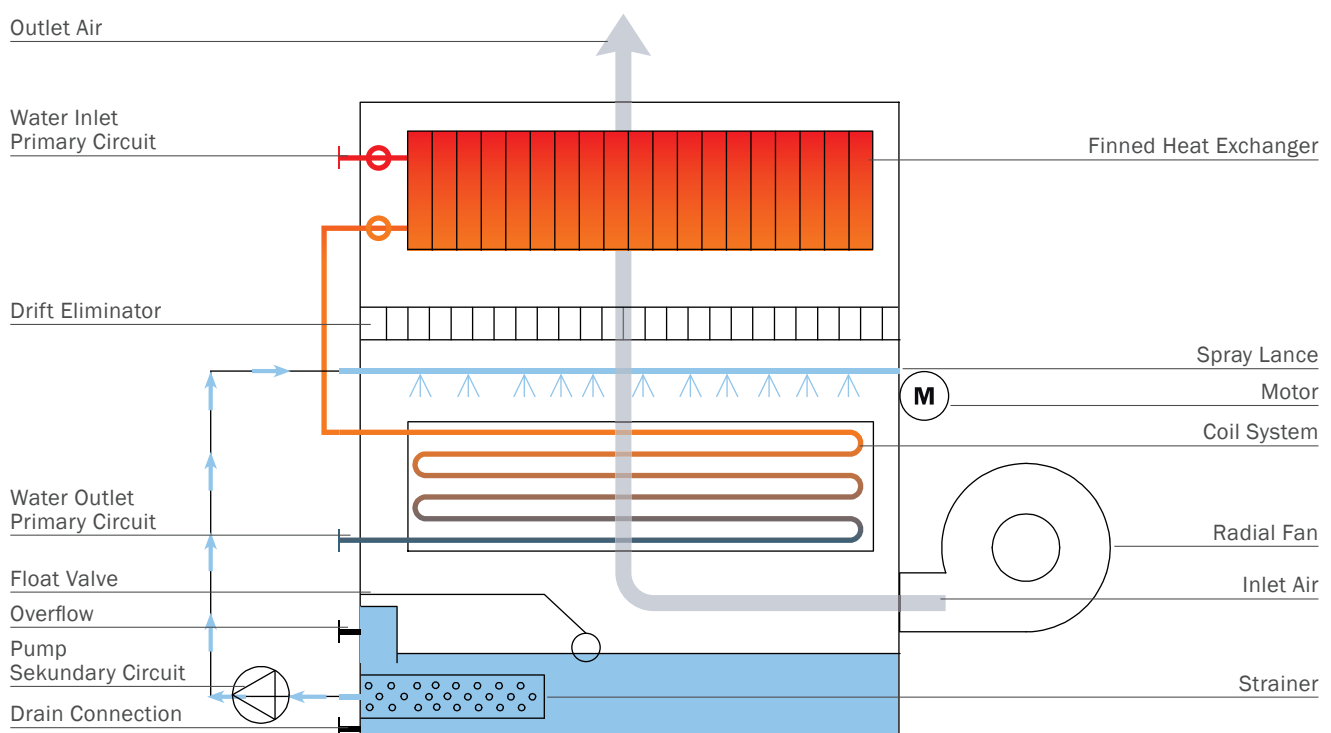
**HYBRID WATER COOLER HK** The hybrid water cooler is a patented process and product of E.W. Gohl GmbH. It distinguishes itself through an environmentally friendly method of operation due to the combination of the advantages of wet-dry cooling. Due to the control being dependent on the cooling load, a saving of additional water of up to 75% is achieved as compared with the pure wet cooling. Plume formation is not an issue for the hybrid cooler. In addition, it is very safe to use in the winter and extremely easy to maintain due to its low construction height. This and many other advantages make the decision easy for our customers. ◀

- Benefits**
- ▶ No Legionella risk
  - ▶ No Water in the basin
  - ▶ Low operating cost
  - ▶ Low water consumption
  - ▶ Modern, environmentally friendly refrigeration system
  - ▶ Closed cooling tower
  - ▶ Low cooling water temperature
  - ▶ Small fresh water demand
  - ▶ No deposits or corrosion in the cooling circuit
  - ▶ Low maintenance requirement
  - ▶ High winter safety
  - ▶ No plume formation



► **HYBRID EVAPORATIVE COOLER VHK** By fitting a fin cooling package to the VK evaporative cooler, a dry cooling element is combined with wet cooling and thus achieves a higher dry cooling performance compared with the classic evaporative cooler. This model of the VK with hybrid design is used when the cooling load is to be discharged air-cooled at cool ambient temperatures without having to forego the low re-cooling temperature at high ambient air temperatures. ◀

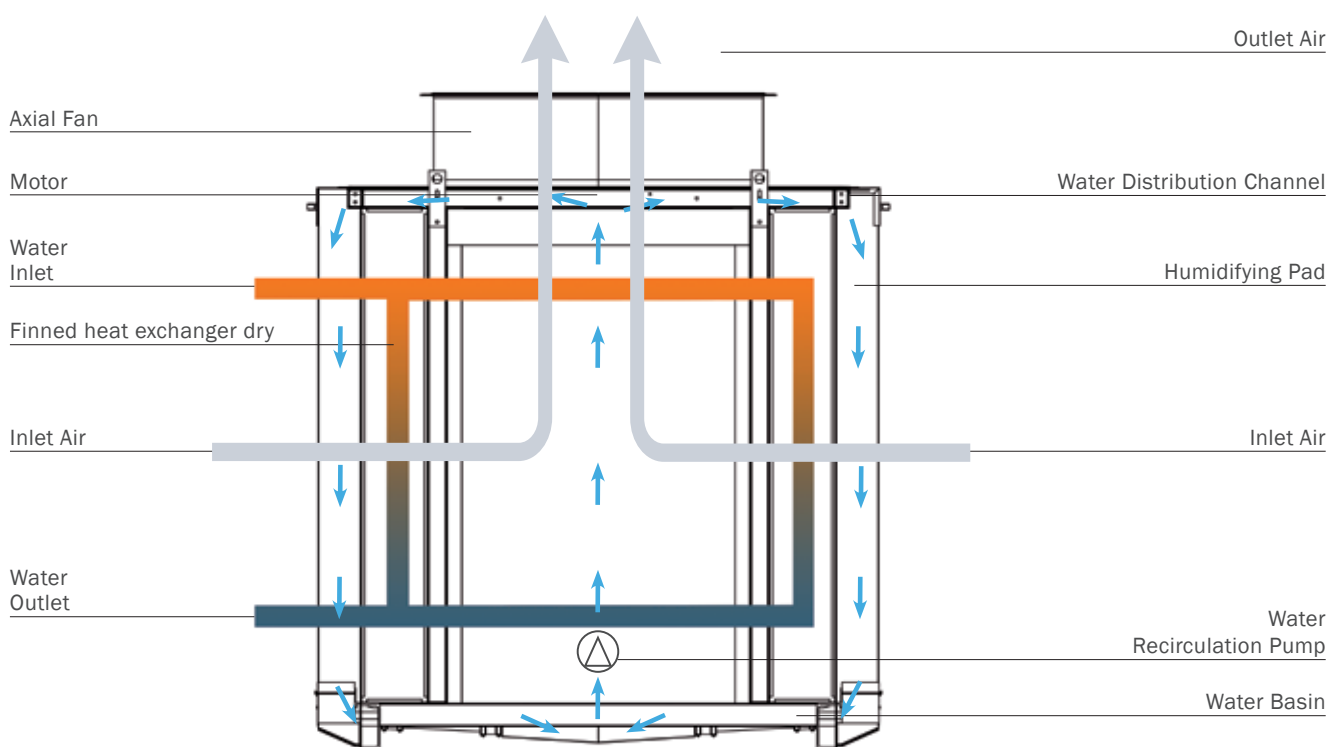
- Benefits**
- ▶ Reduced vapour plumes
  - ▶ No sedimentation in the cooling water circuit
  - ▶ Compact design
  - ▶ No necessity of enclosed space
  - ▶ Considerably extended operating periods between cleaning intervals of cooling water
  - ▶ Low water treatment cost
  - ▶ Higher switching levels for wet/dry operation





▶ **TOPAZ ADIABATIC COOLER** The Topaz adiabatic cooler is a combination of dry cooler with an adiabatic precooling section: this precooling section lowers ambient air temperature by evaporating water which is passed over the cooling / humidifying pads, specially designed for this purpose. Bacteriological growth and pollution, as well as deposits in the heat exchanger can be prevented by daily water emptying and drying the humidifying pad. Very low operating cost due to energy-efficient motor (efficiency over IE3) and low water consumption through water recycling. The ease of access and the parallel vertical arrangement of the heat exchanger allow for maintenance without disassembling motors and fans. ◀

- Benefits**
- ▶ No water treatment required
  - ▶ No water spray in airflow
  - ▶ Elimination of legionella risk
  - ▶ No deposits and impurification in the heat exchanger
  - ▶ Very low water consumption
  - ▶ E Permanent magnet motors (efficiency over IE3)
  - ▶ Low operating costs
  - ▶ Easy maintenance: full access through central door
  - ▶ Adiabatic cooling below the ambient air temperature
  - ▶ Eurovent certified tube coils







**THE COATING PROCESS BY WHIRL SINTERING DEVELOPED BY E.W. GOHL IS UNIQUE IN COOLING TOWER TECHNOLOGY. THE ESPECIALLY ROBUST LONG TIME CORROSION PROTECTION HAS GUARANTEED EXTREMELY DURABLE AND PERSISTENT COOLING TOWERS FOR MORE THAN 40 YEARS.**

It is a special process that melts a 0.3 mm thick thermoplastic Performance Polymer Alloy coating upon a hot-dip galvanised and sandblasted steel sheet in a fluidized powder bed.

This brilliant non-porous surface is elastic and impact-resistant, resistant against dilute acids and bases, light and air resistant and weatherproof. Electrochemical corrosion – caused by globules, chips as well as grinding particles – can be avoided by whirl sintering.

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