

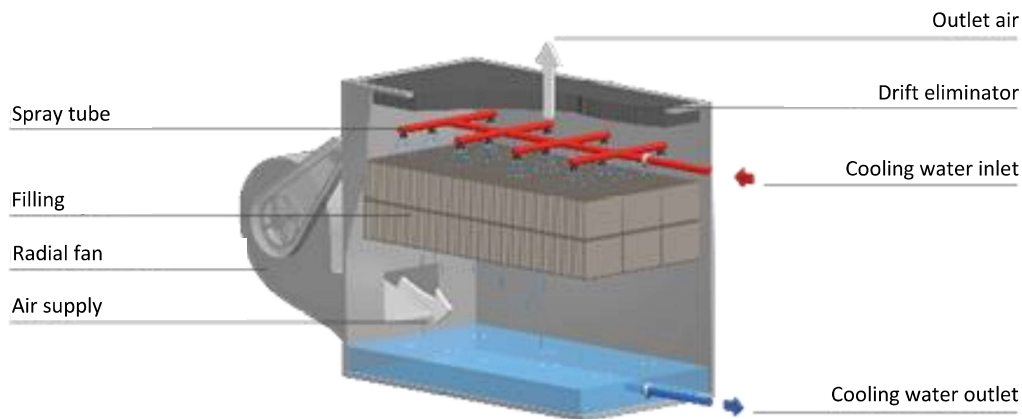
## Cooling tower series WRD

Cooling tower with an open cycle  
The most efficient re-cooling type



- Low cooling water temperatures
- Direct highly efficient heat transfer
- High efficiency
- Compact, strong, and extremely adaptable
- Corrosion-proof whirl-sintering

# FORCED DRAFT EVAPORATIVE COOLING TOWER WITH CENTRIFUGAL FANS FOR OPEN CIRCUIT



## Use

The **WRD** series are highly efficient re-cooling systems with corrosion-proof, vortex-sintered coating for open cycles. They are used where appliances/cooling machines require large quantities of water and / or a low cooling water temperature should be achieved.

- Compact indoor installation in buildings or machine rooms
- Outdoor installation
- Building air conditioning
- Industrial process cooling

## Function principle

The cooling of the process heat is generated by the evaporation of the natural cooling agent water. Heat and material transfer between cooling water and the ambient air takes place in counterflow. The cooling water gathers in the cooling tower vat and is transported from there to the cooling system components. Compressed aeration evaporative-cooling towers with radial fans require very little floor space and demonstrate simultaneous high performance density.

## Low-noise radial fans

The fans are upstream of the device. They press the fresh air into the device optimally and therefore need not compensate any factors reducing the working life of the discharge air system. The fan wheel blades' wheels bent forwards allow low rotational speed. The considerable pressure reserves enable the use of additional sound absorbers for the cooling tower.

## Filling and drift eliminators

The high-performance support media and drift eliminators are UV-proof and consist of PP.

## Water distribution

Water distribution with self-cleaning galvanised steel version nozzles and PP nozzles, the nozzle carrier pipes can easily be removed from the pipe run via a screw connection.

## Compact casing

The casing with an integrated water collection vat consists of 2 mm sendzimir-galvanised sheet steel coated in a vortex sintering process. The individual sheet steel segments are screwed together using stainless steel screws and double-sealed with a permanently plastic sealant. The high air volume flow generates wave movement which is equalised by an integrated wave-breaker. **The base of the water collection vat has an inclination of 2 %.** This hinders that ponding remains when emptying the reservoir and health-endangering germs are formed in it when at a standstill.

## Long-term corrosion protection

This is a special process, during which a 0.3 mm thick thermoplastic plastic coating is melted on in a powder vortex bed on a sendzimir-galvanised sheet steel which is pre-treated by sandblasting. This coating process meets the requirements for the highest corrosion category C5-M according to DIN EN ISO 12944 for offshore and coastal areas. Tested and confirmed by the "Institute for Corrosion Protection Dresden [Germany]"

## Accessibility

Inspection hatches enable the adjustment of the installed fittings, control, and inspection as well as the cleaning of the water collection vat.