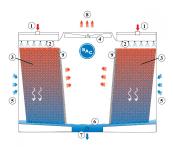
## Principle of operation



## Open cooling towers

## Principle of operation

Warm process water (1) from the heat source enters the water distribution system (2) at the top of the cooling tower on both sides where it is distributed over the fill or heat transfer media (3). At the same time the axial fan (4), located at the top of the unit, draws the air (5) from the sides of the unit over the fill. While the warm process water contacts the cold air the latter heats up and part of the process water is evaporated which removes the heat from the remaining water. The sloping sump (6) or basin collects the cooled water after which it returns to the heat source of the process (7). The warm saturated air (8) first passes through the drift eliminators (9), which remove water droplets from the air, and then exits the tower at the top.



You want to use the S3000E cooling tower to cool your process water? Contact your local <u>BAC representative</u>.