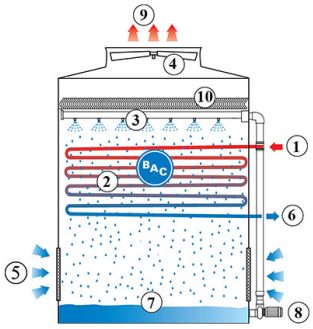
Principle of operation

Closed circuit cooling towers

Principle of operation



Warm process **fluid (1)** enters through a **heat exchange coil (2)** and gets water sprayed on by the **spray system (3)** at the top of the cooling tower. At the same time the **axial fan (4)** draws ambient **air** upwards **(5)** through the tower. During operation, heat is transferred to the water, and then to the atmosphere as a portion of the water that evaporates. The cooled process fluid then **exits** the unit **(6)**. The **sump (7)** or basin collects the remaining water. The spray water **pump (8)** recirculates the water back up to the water spray system. The warm saturated **air (9)** leaves the tower through the **drift eliminators (10)**, which remove water droplets from the air.

Interested in the FCI cooling tower to cool your process fluid?
Contact your local BAC representative for more information.