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 where it is distributed over the **fill (3)** or heat transfer media . At the same time the **axial fan (4)**, located at the side of the unit, blows the **air (5)** 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 **tower 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 opposite side of the fan.

You want to use the FXT cooling tower to cool your process water?
Contact your local BAC representative for more information.