

## Principle of operation

## Closed circuit cooling towers

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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 centrifugal fan (4) blows ambient air upwards (5) through the tower. During operation, heat is transferred from the internal circuit coil to the water, and then to the atmosphere as a portion of the water that evaporates. The cooled fluid then exits(6) the unit. The tower sump (7) or basin collects the remaining spray water. The spray water pump (8) recirculates the water 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.

You want to use the VFL closed circuit cooling tower to cool your process fluid? Contact your local <u>BAC representative</u> for more information.

