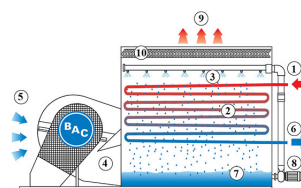


# Principle of operation

## 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 **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 [BAC representative](#) for more information.