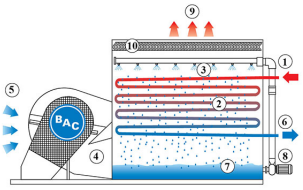
Principle of operation

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.

This file has been generated from the BAC website on: 28/03/2024
For more up to date information, visit: https://www.baltimoreaircoil.eu/en/products/VFL-principle-of-operation