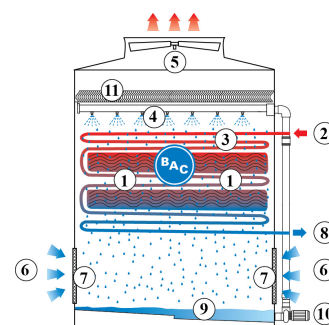


# Principle of operation

## Closed circuit cooling towers

### Principle of operation

The PFI features the OptiCoil™ System, which includes the BAC **Versapak spray water cooling medium (1)**. This improves the overall cooling efficiency and ensures an optimal cooling of the warm **process fluid (2)** inside the **coil (3)**, which is wetted by the **spray system (4)**. The Versapak is inserted within the coil structure, engineered for easy inspection. The **axial fan (5)** draws ambient **air (6)** upwards through the tower. **Combined inlet shields (7)** protect the tower from debris being drawn into the unit. During operation, heat is transferred to the spray water, and then to the atmosphere as a portion of the water that evaporates. The cooled process fluid then **exits** the unit **(8)**. The **sloping sump (9)** or basin collects the remaining water. The **spray pump (10)** recirculates the cooled water to the top of the tower. The warm saturated air leaves the tower through **drift eliminators (11)** which remove water droplets from the air.



**Interested in the PFI cooling tower to cool your process fluid?**

Contact your local [BAC representative](#) for more information.