

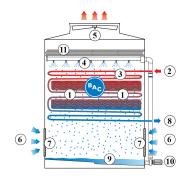
## Principle of operation

## Closed circuit cooling towers

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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 <u>BAC representative</u> for more information.