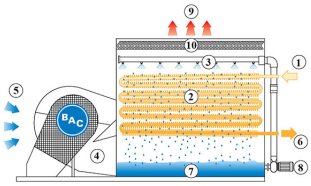
Principle of operation

Refrigerant condensers

Principle of operation



Vapor (1) enters through a **evaporative condensing coil (2)** and gets water sprayed on by the **spray system (3)** at the top of the condenser. At the same time the **centrifugal fan (4)** blows ambient **air** upwards **(5)** through the condenser. 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 **condensed vapor (6)** then exits the unit. The tower **sump (7)** or basin collects the 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.

Interested in the VCL condenser? Contact your local BAC representative for more information.

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