

Principle of operation

Refrigerant condensers

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Refrigerant vapour (1) circulates through an evaporative condensing coil (2), which is continuously wetted by the spray system (3) installed at the top of the condenser. At the same time the individual driven axial fans (4), located at the bottom of the unit, blow ambient air (5) upwards through the condenser.

During operation, heat is transferred from the refrigerant to the water, and then to the atmosphere as a portion of the water that evaporates. The condensed vapour then exits the unit (6). The remaining spray water is collected into the sloping sump (7). The air inlet shields (8) prevent water splash-out to the outside of the unit. The spray water pump (9) recirculates the water up to the water spray system. The warm saturated air (10) leaves the condenser through the drift eliminators (11), which remove water droplets from the air.

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