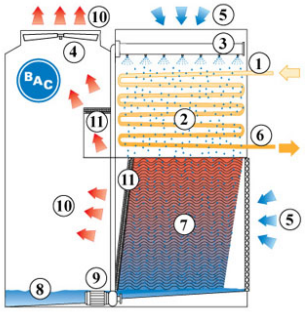
Principle of operation

Refrigerant condensers

Principle of operation



The CXVE combines the use of an evaporative condensing coil with an intergrated fill pack for cooling down the recirculating spray water. The **vapour (1)** circulates through a **condensing coil (2)**, which is wetted by a **spray system (3)**. In parallel with the water spray flow, an **axial fan (4)** draws **air (5)** over the coil. The evaporation process condenses the vapour into **liquid (6)**. The spray water falls onto a **fill pack (7)** where it is cooled before falling into the sloping **water basin (8)** or sump. The **spray pump (9)** recirculates the cooled water to the top of the unit. The **warm saturated air (10)** leaves the tower through the **drift eliminators (11)** which remove water droplets from the air.

You want to use the CXVE condenser to cool your process fluid? Contact your BAC representative or use the information request form and tell us how we can help you.

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For more up to date information, visit: https://www.baltimoreaircoil.eu/en/products/CXVE-principle-of-operation