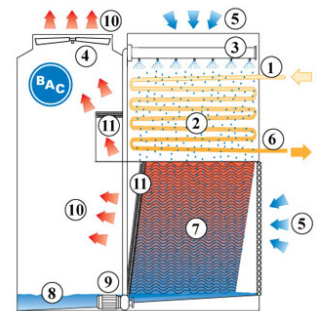


# Principle of operation

## Refrigerant condensers

### Principle of operation

The CXVE combines the use of an evaporative condensing coil with an integrated 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.