

Condensation

The opposite of evaporation, condensation, can occur in appliances with humidity supply (high air humidity inside the chamber) or in the temperature control chamber with cooling operation. With an uneven temperature distribution, there is a risk of cold spots developing, and thus of condensation.

Since the so-called refrigerant evaporator represents the coldest point in a cooling system in coolable **temperature control chambers**, the more energy-rich particles in the interior chamber atmosphere would under certain circumstances condensate or ice up. This could result in humidity being removed from samples, maybe even until they are completely dried out. In the modern, coolable **temperature control chamber**, the cooling systems are therefore placed outside the working chamber.

[Overview Glossary Temperature control chamber](#)

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