

Thermal oven / drying oven

Thermal ovens and drying ovens are used in research and industry in a wide variety of applications. Some examples are listed here:

- In the pharmaceutical industry, the food industry, but also in environmental technology to determine the dry content and humidity content using weighing equipment (supplied by some manufacturers of drying ovens as optional accessories)
- In electronics for drying components, degassing epoxy resins
- In research for sample preparation
- In industry for the ageing of plastics
- In hospitals to warm up blankets, rinsing solutions, etc.

Drying procedures are usually distinguished by pressure and temperature in the working chamber as well as according to the consumption of energy. In the conventional drying oven with natural convection or forced air circulation, the chamber load is exposed to atmospheric pressure and a higher temperature; whereas in the vacuum drying oven it is exposed to an underpressure, and thus a lower temperature because of the reduced boiling point (see Chapter [Vacuum Drying Oven](#)).

Read on:

[Natural convection/forced air circulation](#)

[Vacuum](#)

Autor:

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A drying oven used in a cleanroom has to fulfill special requirements

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