

CRITICAL POINT DRYER (CPD)



DESCRIPTIONS

The drying of biological specimens such as pollen, tissue, plants, insects, as well as industrial samples, for example MEMS (Micro Electromechanical Systems) for SEM analysis can be prepared in the Leica EM CPD300 Critical Point Dryer, fully automatically.

The procedure of critical point drying is an efficient method for drying delicate samples for SEM applications. It preserves the surface structure of a specimen which could otherwise be damaged due to surface tension when changing from the liquid to gaseous state.

Before drying, many biological samples are commonly prepared through fixation and dehydration and coated after drying with metal such as gold, platinum, or palladium to make their surfaces electrically conductive for SEM analysis.

Further Information

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Brand-Model

LEICA EM CPD300 (Leica Mikrosysteme GmbH, Austria)

Basic Specifications

- Integrated 7-inch touch panel with user interface for cooling the specimen chamber; CO₂ filling; steps of changing the medium in the chamber; supercritical heating; CO₂ gas channel with adjustable outlet speed setting
- Software: the ability to store and restore protocols, security concept with temperature and pressure cut-off; instructions for use and safety measures,
- Solvent resistant cover
- High-strength pressure chamber made of stainless steel
- Chamber cover with thread
- Integrated, easy to empty container for used reagents with quick assembly system on the device
- Front and top glazed sight glass with LED lighting,

Equipment Website (Manufacturer)

<https://www.leica-microsystems.com>

Types of samples

Solid

Location

Central Analytical Laboratory
(T02, 01-25-01)

Operator

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