

Manufacturer
Leica

Model
EM CPD300



Critical Point Dryer



Critical point drying

The EM CPD300 is an automated machine to dry delicate samples for SEM applications. It preserves the surface structure of a specimen, which could otherwise be damaged, due to the surface tension when changing from a liquid to gaseous state. Before drying, many biological samples are prepared through fixation and dehydration.

Technical specifications

- Fully automated and computer controlled by an integrated touch screen user interface (7")
- Highly reproducible sample preparation
- Minimal user interaction, with intuitive software
- Increased safety by cut-off P&T functions and waste separator module
- Store and recall drying programs
- Timer function and expected process time calculator
- Reduced CO₂ consumption and process time, using Teflon fillers
- Flexibility in sample size and variety of sample holders
- Chamber dimensions: 60mm diam. x 62mm H
- Max operation pressure 79bar (cut off 80bar)
- Heating range: from 30°C to 45°C (cut off >45°C)
 - Heating time slow: 1°C/min
 - Heating time medium: 2°C/min
 - Heating time fast: 3°C/min
- Cooling range: from 5°C to 25°C
 - Cool down time: 2°C/min
- Exchange fluids required: Acetone or Ethanol

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Accessories:

- Waste separator (to avoid direct contact)
- Sample transfer basket with quick release pin
- Sample transfer basket rest
- Teflon filler of 1/3 volume
- Teflon filler of 1/6 volume (x2)
- Fine mesh specimen holder, with 4 slots for baskets (0,5mm mesh size, 1/3 volume)
- Fine mesh specimen baskets (x4, 0,2mm mesh size)
- Cover slip holder of 24 slips of 12mm diameter (0,5mm mesh size, 1/3 volume)