

## Leica CM1900



Leica CM1900-- Cryostat for Advanced Applications

045227378

Leica CM1900 Cryostat - Basic Instrument

Cryostat with cryochamber and specimen cooling,  
with specimen retraction - 230 V/50 Hz

Instrument features:

Freestanding cryostat with fully encapsulated, splash-proof microtome. Single-screw locking system for direct fitting of specimen discs. Stable, self-containing cryocabinet on rollers. Heated, removable sliding window. Spacious cryochamber with illumination. Removable storage shelves.

Corrosion-proof cryochamber for easy decontamination. Lockable handwheel.

Twin-compressor cooling system for work area and specimen head.

Cooling system with safety pressure control by high-pressure controllers.

Specimen temperature control between -10 and -50°C.

Cryochamber temperature setting between 0 and -35°C.

Manual defrosting for chamber and specimen head with audible signal to avoid unintentional defrosting; defrost cycle: 9 minutes  
Automatic hot-gas defrosting programmable in 15-minute increments (for cryochamber only).

Actively cooled freezing shelf (-45°C) for 10 specimen discs.

Low-maintenance microtome with cross roller guides.

Section thickness continuously adjustable from 1 to 60 µm.

Total vertical stroke: approx. 60 mm

Total horizontal specimen feed: approx. 25 mm

Motorized coarse feed at 0.8 mm/s speed.

Control panel with foil-protected buttons and locking function.

Self-explanatory symbols for all essential functions and displays.

LED-display for cryochamber and specimen head temperature, actual time, defrost time.

Visual indication of specimen stop positions (front/home).

Manufactured in compliance with c-UL and VDE-GS standards. CFC-free.

Section thickness range:

-0 to 60 µm

-in 1 µm increments from 0 to 10 µm

-in 2 µm increments from 10 to 20 µm

-in 5 µm increments from 20 to 60 µm

Technical Data:

- Mains power supply: 230 V/50 Hz
- Admissions: CE, UL, c-UL, VDE
- Dimensions (W x D x H): 890 x 730 x 1200 mm
- Dimensions (W x D x H): 35.04 x 28.74 x 47.24 inches
- Weight: 170 kg - 374.45 lbs

All specifications related to temperature are valid for a room temperature of up to 22°C and a relative air humidity of 60 %.

Standard delivery includes:

- 1 Basic instrument
- 1 Handwheel with marking, antibacterial (0471 42558)
- 1 Heat extractor, stationary (0452 27918)
- 1 Low-temperature stabilizer for heat extractor (0452 27919)
- 5 Specimen discs, 30 mm (0370 08587)
- 1 One-piece storage shelf (0452 28594)
- 1 Freezing shelf cover (0452 28624)
- 1 Brush shelf with holder (0452 28799)
- 1 Section waste tray (0452 28595)
- 1 Tool set (0436 43463):
  - 1 Brush, fine (0183 28642)
  - 1 Leica-brush (0183 30751)
  - 1 Allen key, size 2.5 (0222 04137)
  - 1 Allen key, size 3.0 (0222 04138)
  - 1 Allen key with spherical head, size 4.0 (0222 32131)
  - 1 Allen key, size 5.0 (0222 04140)
  - 1 Allen key with handle, size 5.0 (0194 04760)
  - 1 Allen key, size 6.0 (0222 04141)
  - 1 Single-ended open-jaw wrench, size 16 (0330 18595)
- 1 Bottle of OCT-Compound, mounting medium for cryosectioning, 125 ml (0201 08926)
- 1 Bottle of cryostat oil, type 407, 50 ml (0336 06089)
- 1 Storage mat (0452 27913)
- 1 Pair of safety gloves for cryosectioning (0340 29011)
- 1 Instruction manual Leica CM1900
- G/E/F/S (0708 37105)