Leica CM1900

The Rapid Sectioning Cryostat
for Routine Diagnostic
Reproducible sectioning results in less than three minutes – the time factor is a major requirement for advanced routine diagnostic in histology and clinical histopathology today. The basis is a technology that allows for extremely rapid specimen freezing and frequent changes in specimen temperature: a cryostat that combines even highest demands for easy operation and greatest safety. The Leica CM1900 is the ideal instrument to meet these special requirements. Its overall engineering and ergonomic concept reflects the profound competence and experience in the design of modern cryostats. The versatile and uncomplicated use as well as reliable results are convincing characteristics, which give the Leica CM1900 its distinctive profile as the instrument of choice for any cryostat application.

Reliable Results in Minutes

Ergonomic: The handwheel
The ergonomically positioned handwheel is extremely smooth and can be locked in the upper position.

Functional: The control panel
Self-explanatory single-function keys and easily readable LEDs prevent operating errors. The motorized coarse advance is ergonomically positioned in the arm rest at the left and operated via push buttons.

Rapid: Specimen temperature control
Rapid and frequent changes in specimen temperature allow the sectioning of various different kinds of specimens.

Unique: The enclosed microtome
The high-precision microtome is enclosed in a special housing to protect it from contamination. The working area is therefore easy to clean and disinfect, without the need to remove the microtome from the cryochamber.

Practical: Spray disinfection
The Leica CM1900 has been designed to be suitable for disinfection with Leica Cryofect, a spray-on disinfectant which kills bacteria, fungi and viruses – e.g. Hepatitis B, HIV and Polio – also in the low-temperature environment of a cryostat.

Use biocides safely. Always read the label and product information before use.

Spacious: The stainless steel cryochamber
The open top cryochamber with separate specimen cooling is easily accessible and offers ample space for convenient working and storage of specimens. An integrated drain system simplifies cleaning and disinfection.
Leica CM1900 – Technical specifications

Cryochamber cooling:
- Temperature range: 0 °C down to -35 °C *
- Cooling time down to -35 °C: 4 h *
- Defrosting: programmable;
  - 1 automatic defrost cycle/24 h duration: 9 min
  - manual defrost cycle
- Temperature of quick freeze shelf: down to -45 °C (depending on the chamber temperature)

Cryocabinet:
- Power draw: 1800 VA
- Dimensions (w x h x d): 890 x 1200 x 730 mm
- Weight (including microtome): 170 kg, 375 lbs

Section thickness setting: 1 to 60 µm
Maximum specimen size: 55 mm ø
Horizontal specimen feed: 25 mm
Vertical stroke: 59 mm
Specimen retraction: optional
Specimen orientation: optional
Trimming: via motorized coarse feed
Motorized coarse feed: 0.8 mm/sec

Specimen cooling:
- Specimen temperature: -10 °C down to -50 °C in 1 K increments *
- Defrosting: manual defrost cycl.

Specimen temperature setting: 1 to 60 µm
Maximum specimen size: 55 mm ø
Horizontal specimen feed: 25 mm
Vertical stroke: 59 mm
Specimen retraction: optional
Specimen orientation: optional
Trimming: via motorized coarse feed
Motorized coarse feed: 0.8 mm/sec

Manufactured in compliance with UL-, CSA- and VDE standards.

Wide range of accessories available on request.
Technical specifications subject to change without prior notice.

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