



Technical Data Sheet

Product Name: CM1850
Family: Cryostat

Technical Data

Approvals:

Microtome

Type:

Section thickness setting:

Horizontal specimen feed:

Vertical stroke:

Maximum specimen size:

Specimen orientation:

Electric coarse feed - slow:

Electric coarse feed - rapid:

CE, UL, c-UL, VDE

Rotary microtome

1 to 60 µm:

1 µm increments from 1 to 10 µm

2 µm increments from 10 to 20 µm

5 µm increments from 20 to 60 µm

25 mm

59 mm

55 x 55 mm

8 ° (x-, y-, z-Achse)

0.2 mm/s

0.7 mm/s

Cryocabinet

Dimensions and weight

Width (excluding handwheel):

Width (including handwheel):

Depth:

Height:

Weight (including microtome, w/o spec. cooling):

Weight (including shipping crate):

600 mm

730 mm

730 mm

1140 mm

approx. 135 kg

approx. 172 kg

Room conditions

Relative humidity:

Room temperature:

< 60%

18 - 35 °C / air-conditioned room
recommended

Power supply

Nominal voltage:

Nominal frequency:

Power draw:

Max. start-up current for 5 sec:

Protective class:

Automatic mains fuse:

Pollution degree:

1	2	3	4
120VAC±10%	220 VAC±10%	230VAC±10%	240VAC±10%
60 Hz	60 Hz	50 Hz	50 hz
1600 VA	1600 VA	1600 VA	1600 VA
45 A eff.	45 A eff.	45 A eff.	45 A eff.
I	I	I	I
T 12A T1	T 10A T1	T 10A T1	T 10A T1
2	2	2	2

Overvoltage installation category:

II	II	II	II
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Refrigeration

Refrigeration capacity:

Safety factor:

Refrigerant:

Compressor oil:*

1	2	3	4
690 W	690 W	690 W	690 W
3	3	3	3
300 g ± 5 g R 404 A *	300 g ± 5 g R 404 A *	300 g ± 5 g R 404 A *	300 g ± 5 g R 404 A *
0.6 l EMKARATE RL- 22S, ICI *	0.6 l EMKARATE RL- 22S, ICI *	0.6 l EMKARATE RL- 22S, ICI *	0.6 l EMKARATE RL- 22S, ICI *

Quick freeze shelf

Max. temperature:**

Number of quick freeze stations:

Defrosting:

'-40 °C '10 manual hot gas defrosting, timer-controlled
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Peltier element (option)

Max. temperature **

Number of freezing stations:

Defrosting:

'-60 °C '2 together with quick freeze shelf

Cryochamber

Temperature range:

Defrosting:

0 °C to -35 °C ±10% at an ambient temperature of 22 °C relative air humidity of 60% when sliding window is closed;
automatic hot gas defrosting, temperature controlled, 1 automatic defrost cycle/24 hours temperature controlled, manual defrosting on demand

* Refrigerant and compressor oil must be replaced by authorised service personnel only !

** At an ambient temperature of 22 °C; relative air humidity of 60 %, sliding window closed.

