



Compact Controlled Rate Freezer

Kryo 360

Controlled temperature reduction prevents the formation of lethal intracellular ice: the Kryo 360 significantly improves viability yield post-thaw and is ideal for small sample sizes.

Accurate control, safety features and sample history data logging make these freezers world-class leaders.

The Kryo 360 range is simple to programme and operate, with the controller displaying demand, sample and chamber temperatures.

Whether you wish to freeze up to 60 straws or up to 60 ampoules, the freezers produce repeatable, consistent results with easy data recording thanks to the integral printer and PC comms port.

Batch freezing is possible using our DeltaT software. Large sample numbers can be deposited in different machines with the subsequent freezing profile for all samples being displayed on the same graph.

The new MR7 controller offers password-controlled access on multiple user levels. Updates and alerts are emailed via WiFi to provide peace of mind and unlimited freezer profile storage enabling the operator to select optimum processing conditions.

Additional safety features have been fitted to help protect against power and PC failure.

- Optimised for different cell types – user definable freezing profiles
- Assured cryopreservation – inbuilt alarms and user notifications
- QA support - password protection, reporting and temperature graphs
- Flexible design - different chamber size options accommodate straws or vials
- Post thaw viability up by 20 % compared to non-dynamic freezing methods

Want to optimise freezing profiles? enquiries@Planer.com



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SYSTEM SPECIFICATION	
Range	+40 °C to -180 °C
Heating Rate	0.01 °C/min to 10 °C/min
Cooling Rate	-0.01 °C/min to -50 °C/min
Controller Accuracy	±0.3 °C measured on a hold at 0 °C
Storage Temperature	-10 °C to +50 °C
Storage Humidity	5 % to 95 % relative humidity non-condensing
Operating Temperature	5 °C to 40 °C
Operating Humidity	5 % to 90 % relative humidity non-condensing
Sound Pressure Level	<70 db (A)
CONTROLLER SPECIFICATION	
Dimensions (H x W x D)	134 mm x 242 mm x 60 mm
Weight (approx.)	2.4 kg
Display	7" TFT LCD - 800 x 480 pixels
Reporting	Digital reporting, automatic filing to any network via Wi-Fi
Keypad	Resistive touchscreen
Programmable Cooling Rate Range	-0.01 °C/min to -99.9 °C/min
Number of Profiles	Unlimited*
Steps per Profile	32
Number of Stored Runs	Unlimited*
CHAMBER SPECIFICATION	
Weight (kg)	14.4 (1.7 L chamber) or 14.7 (3.3 L chamber)
Dimensions (External H x W x D)	1.7 L chamber: Internal 200 mm x 150 mm diameter External 450 mm x 300 mm x 420 mm 3.3 L chamber: Internal 400 mm x 150 mm diameter External 450 mm x 300 mm x 420 mm
0.25 ml Straws	60 (1.7 L and 3.3 L chamber)
0.5 ml Straws	45 (1.7 L and 3.3 L chamber)
2 ml Vials	30 (1.7 L chamber) or 60 (3.3 L chamber)
Power Requirements	115 V~ 50/60 Hz 600 VA / 230 V~ 50/60 Hz 600 VA
RECOMMENDATION OF ADDITIONAL EQUIPMENT	
5 psi System	System Pump - LNP4-C System Dewar - MVLAB 30
22 psi System	System Cylinder - MVEUROCYL230SB Phase Separator - MVPHASE
22 psi System (alternative)	Vacuum Jacketed Pipe Work System Phase Separator - MVPHASE

* SD Card has 8GB storage, enough for 6 million of profiles or 80,000 kryofiles.
Specifications may change without notice. Third party trademarks acknowledged.

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