



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 system controller offers password-controlled access on multiple user levels, with users being able to customize up to 10 profiles.

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	80 mm high x 220 mm wide x 350 mm deep
Weight (approx.)	2.6 kg
Display	240 x 64 LCD with CCFL backlight
Printer	320/640 dot thermal printer
Keypad	20 key membrane keypad
Programmable Cooling Rate Range	-0.01 °C/min to -99.9 °C/min
Number of profiles	10
Steps per profile	32
Number of stored runs	10
CHAMBER SPECIFICATION	
Weight (kg)	14.4 (1.7 L chamber) or 14.7 (3.3 L chamber)
Chamber dimensions	1.7 L chamber: Internal 200 mm x 150 mm diameter External 450 mm high x 300 mm wide x 420 mm deep 3.3 L chamber: Internal 400 mm x 150 mm diameter External 450 mm high x 300 mm wide x 420 mm deep
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 (including MRV Controller)	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

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