

## Medium sized controlled rate freezer

# Kryo 750

**Sophisticated temperature control and simple operation – the Kryo750 is perfect for ensuring viable preservation of high volume valuable biological cells and tissues.**

This controlled rate freezer is designed for freezing of bigger volumes of samples in bags, vials and straws. It has a simple 2 button operation to prevent the user accidentally running the wrong protocols. By using our PC software, DeltaT, enables password protected multiple protocols, online data-viewing, capture and storing for validation.

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.

Want to optimise freezing profiles? [enquiries@Planer.com](mailto:enquiries@Planer.com)

A forced laminar flow cooling system ensures efficient, even cooling. The machine has top or front opening for easy loading.

The heated door seals prevent the lid freezing shut at cryogenic temperatures. Protocol stage “trigger on sample”, or chamber temperature, or time.

The inner chamber is removable for sterilisation. The 750 has a Comms port – for PC connection and has flexible and fast cooling rates.

- Simple freezer operation - two button control
- Convenient flexibility - front and top loading options
- Optimised for different cell types - user definable freezing profiles
- Scalable - option to control multiple chambers via one interface (batch freezing)
- Accommodate large sample number - a big 29 litre chamber



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TECHNICAL SPECIFICATIONS		
Dimensions – Front Loading	External	Internal
Height	55 cm	26 cm
Width	79 cm	46.5 cm
Depth	48 cm	25 cm
Dimensions – Top Loading	External	Internal
Height	48 cm	25 cm
Width	79 cm	44.5 cm
Depth	55 cm	26 cm
Weight	45 kg (shipping weight inc. Packaging) approx.	
2 ml vials	1452 on canes or 784 in baskets	
Straws	5808 x 0.25 ml (on canes), 2420 x 0.5 ml (on canes) or 836 x 0.25 ml-0.5 ml (on racks)	
PALL bloodbags	96	
250-1000 ml blood bags	20	
Circulation	Horizontal laminar flow	
Temperature range	+100.0 °C to -160 °C	
Cooling medium	Liquid Nitrogen 22 ±2 psi	
Heater	1000 W	
Sensors: Control and sample	4-wire Platinum resistance thermometer. Sensors are linearised in software to international standards that utilise a 4096-point lookup table based on BS1904:1984 Table 1. Calibration facility provided.	

Accuracy	±0.5 °C at a hold at 0 °C (dynamic accuracy depends on actual programme, e.g. Rate of change of temperature)
Heating rates	0.01 °C/min to 10 °C/min
Cooling rates	-0.01 °C/min to -10 °C/min
Programmable cooling rate range	-0.01 °C/min to -99.9 °C/min
Operating positions	Vertical or horizontal
Thermal cutout	120 °C cutout
Power Requirements	103 - 126 VAC 50/60 Hz 1200 VA (max.) (470 VA freezing only, with seal and bearing heaters operating). The freezer may be damaged by voltage surges in excess of 15 % above nominal.
Chart sensitivity	16.7 mV / °C. Nominal impedance > 10 K
Recorder Scaling	0V = -200 °C, +5V = +100 °C
Standards	Designed to comply with BSEN 61010, CSA22.2No.125-M1984, CSA22.2No.151- M1986, EN50082-2, EN50081-2
Storage temperature	-10 °C to +70 °C
Storage humidity	Up to 95 % non-condensing
Operating temperature	5 °C to 40 °C
Operating humidity	Less than 90 % non-condensing
Sound Pressure Level	<70 db (A)
RECOMMENDATION OF ADDITIONAL EQUIPMENT	
22 psi System	System Cylinder - MVEURO-CYL230SB Phase Separator - MVPHASE
22 psi System (alternative)	Vacuum Jacketed Pipe Work System Phase Separator - MVPHASE

Specifications may change without notice, third party trademarks acknowledged. Ai060/V2

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