

# Kryo 250 - 1.7



**The Planer Kryo 250 - 1.7 is an entry level biological freezer utilizing Planer state of the art Focus Control Technology.**

- Designed for freezing of simple cells and sperm in straws and ampoules
- Single factory programmed protocol
- One button operation
- Controller displays sample and chamber temperatures alternately via selector button
- Compact design
- Horizontal or vertical operation

The **Planer Kryo 250 - 1.7** is introduced as an **entry level biological freezer**, designed to be simple to operate for use in laboratories where routine and undemanding cryopreservation procedures are required.

The integrated Focused Control Technology provides secure and accurate profile control. This ensures that even when connected to a host PC, the freezer control remains unaffected by any failures that may occur on the external computer or network. The controller includes protection against short term power failures.

The unit is supplied from the factory ready programmed with a protocol pre-defined by the user and is operated via a simple start/stop button.

PC Connection compatible with our comprehensive Delta T™ software application is standard and **calibration by the user is enabled**.

## SPECIFICATION OVERVIEW

- Chamber volume: 1.7 litres
- Straw capacity: 60 x 0.25 ml straws
- Ampoule capacity: 30 x 2 ml ampoules
- Lower temperature limit: -140 °C
- Cooling rates: -0.01 to -50 °C/min
- PC Software: Delta T™ Lite  
(Upgradable to DeltaT or DeltaT-iQ)

## SYSTEM REQUIREMENTS

5 psi or 22 psi Liquid Nitrogen Supply

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## TECHNICAL SPECIFICATION - Kryo 250 - 1.7

### System Specification

Range	+40 °C to -140 °C
Heating rate	Not Applicable
Cooling rate	-0.01 °C to -50 °C
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

### Controller Specification

Dimensions	400 mm high x 100 mm wide x 250 mm deep
Weight (approx.)	5 kg
Display	3.5 digit LCD to show Chamber and Sample temperature
Keypad	3 key membrane keypad
Programmable Cooling Rate Range	-0.01 °C/min to -99.9 °C/min
Number of profiles	1
Steps per profile	32
Number of stored runs	1 - compressed backup
PC Interface	RS232

### Chamber Specification

Weight (approx.)	14.4 kg
Capacity	1.7 litres
Chamber dimensions	Internal: 200 mm x 150 mm diameter External: 450 mm high x 300 mm wide x 420 mm deep
0.25 ml straws	60
0.5 ml straws	45
2 ml ampoules	30
50, 250 & 500 cc blood bags	N/a
Power requirements (Inc. MRV Controller)	115V~ 50/60Hz 600VA / 230V~ 50/60Hz 600VA

Recommendation of additional equipment	5 psi System	System Pump - LNP4-C System Dewar - MVLAB 30
	22 psi System	System Cylinder - MVEUROCYL230SB Phase Separator - MVPHASE
(Alternative)	22 psi System	Vacuum Jacketed Pipe Work System Phase Separator - MVPHASE