

Compact Controlled Rate Freezer

Kryo 370

Controlled temperature reduction prevents the formation of lethal intracellular ice: the Kryo 370 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 Kyro 370 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 30 vials, the freezers produce repeatable, consistent results with easy data recording thanks to 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 - horizontal or vertical freezing options

Post thaw viability up by 20% compared to non-dynamic freezing methods

To get further information or optimise freezing profiles? Contact us.



www.planer.com



Compact Controlled Rate Freezer Kryo 370

Range+40 °C to -180 °CHeating Rate0.01 °C /min to 10 °C /minCooling Rate-0.01 °C /min to -50 °CStorage Temperature-10 °C to +50 °CStorage Humidity5 % to 95 % relative humidity non-condensingOperating Temperature5 °C to 40 °COperating Humidity5 % to 90 % relative humidity non-condensingSound Pressure Level<70 db (A)CONTROLLER SPECIFICATIONDimensions (H x W x D)Dimensions (H x W x D)134 mm x 242 mm x 60 mmWeight (approx.)2.4 kgDisplay77 TFT LCD - 800 x 480 pixelsReportingDigital reporting, automatic filing to any network via Wi-FiKeypadResistive touchscreenProgrammable Cooling Rate Range-0.01 °C /min to -99.9 °C /minNumber of Stored RunsUnlimited*CHAMBER SPECIFICATION16 kgWeight16 kgCapacity and Dimensions (H x W x D)1.7 LInternal 200 mm x 150 mm diameter External 420 mm x 300 mm x 520 mmStraws60 x 0.25 ml45 x 0.50 ml30 x 2 mlVials30 x 2 mlPower Requirements115 V~ 50/60 Hz 600 VA / 230 V~ 50/60 Hz 600 VAReCOMMENDATION OF ADDITIONAL EQUIPMENTSystem Dumar .MVLAB 3022 psi SystemSystem Pump - LNP4-C System Dumar .MVLAB 3022 psi System (alternative)Yacuun Jacketed Pipe Work System Phase Separator - MVPHASE	SYSTEM SPECIFICATION	
Cooling Rate-0.01 °C /min to -50 °C/minController Accuracy±0.3 °CStorage Temperature-10 °C to +50 °CStorage Humidity5 % to 90 % relative humidity non-condensingOperating Temperature5 °C to 40 °COperating Humidity5 % to 90 % relative humidity non-condensingSound Pressure Level<70 db (A)	Range	+40 °C to -180 °C
Controller Accuracy±0.3 °Cmeasured on a hold at 0 °CStorage Temperature-10 °C to +50 °CStorage Humidity5 % to 95 % relative humidity non-condensingOperating Temperature5 °C to 40 °COperating Humidity5 % to 90 % relative humidity non-condensingSound Pressure Level<70 db (A)	Heating Rate	0.01 °C /min to 10 °C /min
Storage Temperature-10 °C to +50 °CStorage Humidity5 % to 95 % relative humidity non-condensingOperating Temperature5 °C to 40 °COperating Humidity5 % to 90 % relative humidity non-condensingSound Pressure Level<70 db (A)	Cooling Rate	-0.01 °C /min to -50 °C/min
Storage Humidity5 % to 95 % relative humidity non-condensingOperating Temperature5 °C to 40 °COperating Humidity5 % to 90 % relative humidity non-condensingSound Pressure Level<70 db (A)	Controller Accuracy	±0.3 °C measured on a hold at 0 °C
Operating Temperature 5 °C to 40 °C Operating Humidity 5 % to 90 % relative humidity non-condensing Sound Pressure Level <70 db (Å)	Storage Temperature	-10 °C to +50 °C
Operating Humidity5 % to 90 % relative humidity non-condensingSound Pressure Level<70 db (A)	Storage Humidity	5 % to 95 % relative humidity non-condensing
Sound Pressure Level<70 db (A)CONTROLLER SPECIFICATIONDimensions (H x W x D)134 mm x 242 mm x 60 mmWeight (approx.)2.4 kgDisplay7" TFT LCD - 800 x 480 pixelsReportingDigital reporting, automatic filing to any network via Wi-FiKeypadResistive touchscreenProgrammable Cooling Rate Range-0.01 °C /min to -99.9 °C /minNumber of ProfilesUnlimited*Steps per Profile32Number of Stored RunsUnlimited*GHAMBER SPECIFICATION1.7 LWeight16 kgCapacity and Dimensions (H x W x D)1.7 LInternal 200 mm x 150 mm diameterExternal 420 mm x 300 mm x 520 mmStraws60 x 0.25 ml45 x 0.50 ml115 V~ 50/60 Hz 600 VA / 230 V~ 50/60 Hz 600 VAVials30 x 2 mlPower Requirements115 V~ 50/60 Hz 600 VA / 230 V~ 50/60 Hz 600 VARECOMMENDATION OF ADDITIONAL EQUIPMENTSystem Duwar - MVLAB 3022 psi SystemSystem Cylinder - MVEUROCYL230SB Phase Separator - MVPHASE22 psi System (alternative)Vacuum Jacketed Pipe Work System	Operating Temperature	5 °C to 40 °C
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 Unlimited* Weight 16 kg Capacity and Dimensions (H x W x D) 1.7 L Internal 200 mm x 150 mm diameter External 420 mm x 300 mm x 520 mm Straws 60 x 0.25 ml 45 x 0.50 ml 30 x 2 ml Power Requirements 115 V~ 50/60 Hz 600 VA / 230 V~ 50/60 Hz 600 VA RECOMMENDATION OF ADDITIONAL EQUIPMENT System Pump - LNP4-C 5 psi System System Cylinder - MVLAB 30 22 psi System System Cylinder - MVLAB 30 22 psi System (alternative) Vacuum Jacketed Pipe Work System		5 % to 90 % relative humidity non-condensing
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KeypadResistive touchscreenProgrammable Cooling Rate Range-0.01 °C /min to -99.9 °C /minNumber of ProfilesUnlimited*Steps per Profile32Number of Stored RunsUnlimited*CHAMBER SPECIFICATIONWeight16 kgCapacity and Dimensions (H x W x D)1.7 LInternal 200 mm x 150 mm diameterExternal 420 mm x 300 mm x 520 mmStraws60 x 0.25 ml45 x 0.50 mlVials30 x 2 mlPower Requirements115 V~ 50/60 Hz 600 VA / 230 V~ 50/60 Hz 600 VARECOMMENDATION OF ADDITIONAL EQUIPMENT5 psi SystemSystem Pump - LNP4-C System Dewar - MVLAB 3022 psi System (alternative)Vacuum Jacketed Pipe Work System	Display	7" TFT LCD - 800 x 480 pixels
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Number of Stored RunsUnlimited*CHAMBER SPECIFICATION16 kgWeight16 kgCapacity and Dimensions (H x W x D)1.7 LInternal 200 mm x 150 mm diameter External 420 mm x 300 mm x 520 mmStraws60 x 0.25 ml 45 x 0.50 mlVials30 x 2 mlPower Requirements115 V~ 50/60 Hz 600 VA / 230 V~ 50/60 Hz 600 VARECOMMENDATION OF ADDITIONAL EQUIPMENT5 psi SystemSystem Pump - LNP4-C System Dewar - MVLAB 3022 psi System (alternative)Vacuum Jacketed Pipe Work System	Number of Profiles	Unlimited*
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Supervisition of the Vertex P of the second secon	Weight	16 kg
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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		45 x 0.50 ml
RECOMMENDATION OF ADDITIONAL EQUIPMENT 5 psi System System Pump - LNP4-C System Dewar - MVLAB 30 System Cylinder - MVEUROCYL230SB 22 psi System (alternative) Phase Separator - MVPHASE 22 psi System (alternative) Vacuum Jacketed Pipe Work System	Vials	30 x 2 ml
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	Power Requirements	115 V~ 50/60 Hz 600 VA / 230 V~ 50/60 Hz 600 VA
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22 psi System (alternative) Phase Separator - MVPHASE Vacuum Jacketed Pipe Work System		System Dewar - MVLAB 30
22 psi System (alternative) Vacuum Jacketed Pipe Work System	22 psi System	System Cylinder - MVEUROCYL230SB
		Phase Separator - MVPHASE
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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Planer Limited 110 Windmill Road, Sunbury-On-Thames TW16 7HD, United Kingdom +44 (0)1932 755 000 www.planer.com

> Contact Us planer.com/contact

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