

3000 Clini-RF Rapid Freezer



 **MADE IN BRITAIN**

Bright
Instruments

Introduction

The Bright Clini-RF is a small, free standing, top opening, ultra low temperature freezer. Its function is to rapidly freeze tissue specimens ready for cryotomy or for storage. Inside the Clini-RF are two cylindrical chambers, the upper chamber is held at -40°C and the lower at -80°C .

The lower chamber can be filled with 3M's Novec HFE-7100, into which specimens can be immersed. Alternatively, an aluminium block can be incorporated into which a specimen holder or chuck can be fitted. The upper chamber is used as a short term storage area for specimens after they have been initially frozen in the lower chamber.

A seven day timer is fitted to the Clini-RF so that during out-of-work hours when not in use it can be run in energy saving standby mode with both the upper and lower chambers running at -40°C , thus saving power. At the start of the working day it is automatically switched to its normal operating mode and the lower chamber brought down to -80°C .

Variable temperature control for operating temperatures above -80°C is fitted.

Features and Benefits

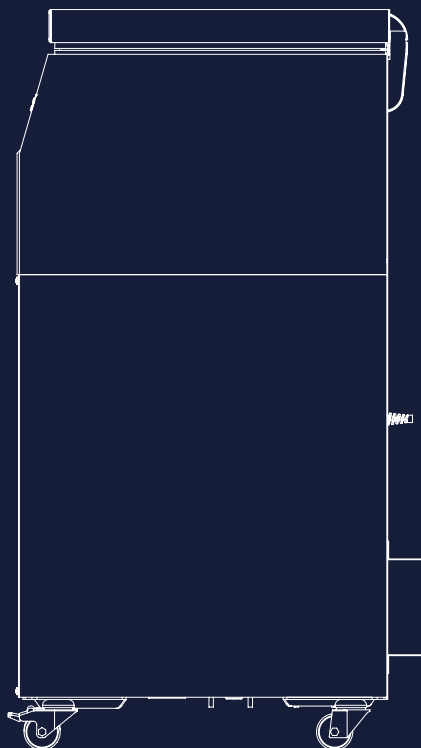
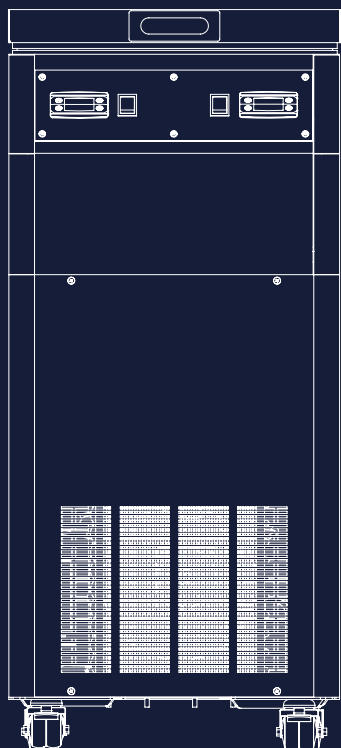
- Replaces liquid nitrogen freezing systems
- Replaces carbon dioxide freezing systems
- Offers a distinct improvement in laboratory safety
- Easy to use, therefore little operator training
- Upper chamber available for storage at -40°C
- Hold 3M's Novec Engineered Fluid HFE-7100 for immersion of specimens
Typical tissue cooling rate of 0.5°C/s

Standard accessories include:

- Cryo-M-Bed
- Cooling block & removal tool
- Allen key
- Spare set of fuses
- Operating manual



The lower chamber is pictured here containing the aluminium block for quick freezing.



Specification

Compressor type	1 x 15cc displacement (primary) 1 x 12cc displacement (secondary)
Refrigerant	Ozone friendly HFC refrigerants R404a (primary) R23 (secondary)
Cooling power	300 watts Main freezer at -40°C Rapid freezer at -70°C
Lowest set temperature	Main freezer -43°C (preset) Rapid freezer -83°C
Main freezer to -35°C	60 minutes
Rapid freezer to -80°C (Liquid bath or solid freezer block)	50 minutes (Main freezer at -40°C)
Fixed freezer block (optional) to -80°C	Less than 30 minutes (Main freezer at -40°C)
Total power consumption	1100 watts
Dimensions	Cabinet: H1000 x W450 x D500mm Freezer dimensions: Diameter 275 x D136mm Rapid freezer dimensions: Diameter 95 x D95mm
Packing	Packed weight: 113kg Unpacked weight: 85kg

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Order List 2025

PRODUCT		
Code	Description	
ULTRA LOW TEMPERATURE RAPID FREEZERS		
3000-001	Clini-RF Rapid Freezer for 220/240V AC, 50/60Hz Complete with: <ul style="list-style-type: none">• Rapid freezer tank to -80°C.• -40°C freezer area for short term storage of specimens.• Removeable block.• Object holder• variable temperature control for temperatures above -80°C.• 7 day energy saving timing faciilty	Standard accessories include: <ul style="list-style-type: none">• Cryo-M-Bed embedding compound.• Cooling block removal tool.• Allen Key.• Spare set of fuses.• Operating manual.
3000-002	Clini-RF Rapid Freezer for 110/115V AC, 50/60Hz Same features & accessories as 3000-001	
57807-1	Stainless Steel Metal Strainer with lid Recommended for use with 3M's Novec 7100	
57807	Stainless Steel Beaker	

Office: **Bright Instruments LTD**
Burnett House, Lakeview
Court Ermine Business Park,
Huntingdon Cambridgeshire,
PE29 6UA

Telephone: +44 (0) 808 168 9697
Web: brightinstruments.com
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*Included in standard order | **Not included in overseas orders. VAT not included - E & OE
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Agent / Distributor info:

Bright
Instruments

**Burnett House
Lakeview Court
Ermine Business
Park Huntingdon
Cambridgeshire
PE29 6UA**

**+44 (0) 808 168 9697
brightinstruments.com**

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