

# 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  $-40^{\circ}\text{C}$  and the lower at  $-80^{\circ}\text{C}$ .

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  $-40^{\circ}\text{C}$ , 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  $-80^{\circ}\text{C}$ .

Variable temperature control for operating temperatures above  $-80^{\circ}\text{C}$  is fitted.

## Features and Benefits

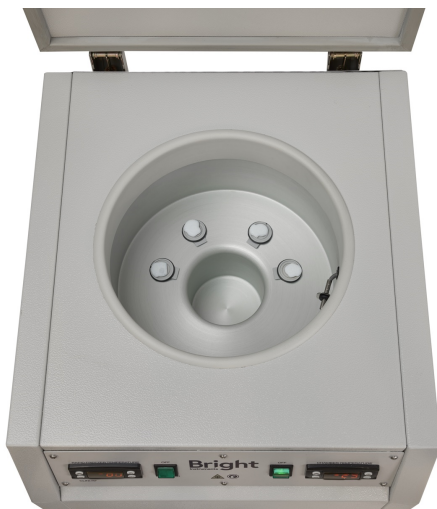
- Replaces liquid nitrogen freezing systems
- Replaces carbon dioxide freezing systems
- Offers a distinct improvement in laboratory safety
- Easy to use, therefore little operator training
- Upper chamber available for storage at  $-40^{\circ}\text{C}$
- Hold 3M's Novec Engineered Fluid HFR-7100 for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

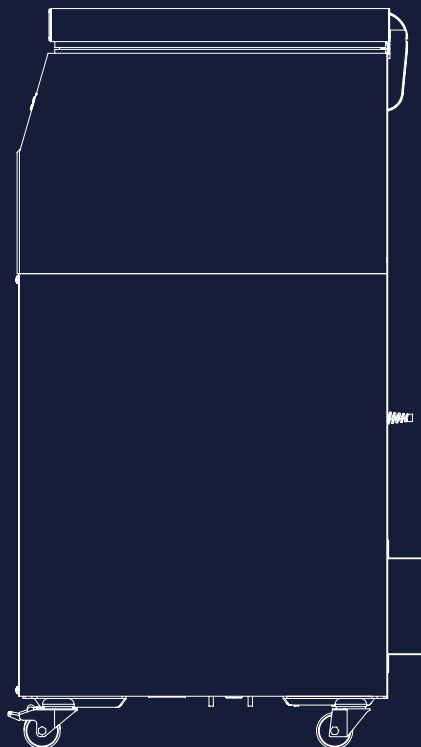
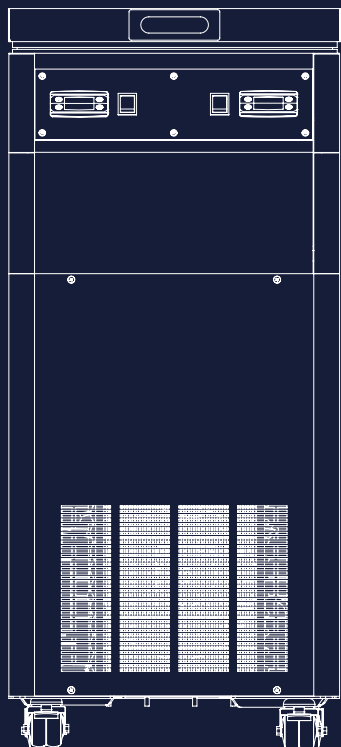
### Standard accessories include:

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

# 3000 Clini-RF Rapid Freezer

Order List 2025

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



# WolfLabs

**Pricing on any accessories shown can be found by keying the part number into the search box on our website.**

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.