



# 2212 Starlet Bench-Top Portable Cryostat Specification

 **MADE IN BRITAIN**

**Bright**  
Instruments

## Introduction

Not since cryostats were invented has there been such a small, portable yet convenient instrument. Featuring many design concepts developed from our continuous research programme, the Starlet cryostat is available in a choice of either handwheel or lever operation. The size of the Starlet makes it ideal as a back-up instrument or for use in laboratories where space is at a premium. Fully portable, it can be transported with ease from laboratory to laboratory and is a must for use in the 'field' - the possibilities are endless.

If frozen sectioning is infrequent and a full-sized, full-priced cryostat cannot be justified, the Starlet does the job and fits any budget. Inexpensive and reliable, the Starlet, ideal where space and funds are limited, really is unique amongst cryostats.

## Features and Benefits

- An ABS Polymer and rustproof steel cabinet coated with scratch, solvent and detergent resistant PVC to provide strength and durability.
- A polished stainless steel chamber with detachable cold storage bar and detachable storage shelf.
- Thermostatically controlled chamber temperature in the range ambient to  $-35^{\circ}\text{C}$  with digital display.
- It uses disposable blades and incorporates the Easi-Set anti-roll plate.
- The Starlet cuts excellent sections just like a full sized cryostat.
- Small and portable.
- Incorporates the Magnaplate anti-roll plate system.
- Complete with all standard accessories to start sectioning right away.

## The Compact Cryostat

Of an elegant appearance, durable and easy to clean, the Starlet cabinet is manufactured using scratch, solvent and detergent resistant ABS Polymer and Stelvetite Polymer coated steel. The chamber is of stainless steel construction and comes complete with a detachable quick freezer bar and detachable storage shelf. Easy to clean and resistant to common decontaminating agents, the working chamber is convenient to use.

Being relatively small the Starlet can provide rapid cooldown times, down to  $-35^{\circ}\text{C}$  in the chamber with the detachable cold storage bar. While not in use, an insulated cover is pressed in place to ensure efficient running of the refrigeration system and also assists in reducing frosting. If the unit is transported, the chamber will remain cold for prolonged periods.

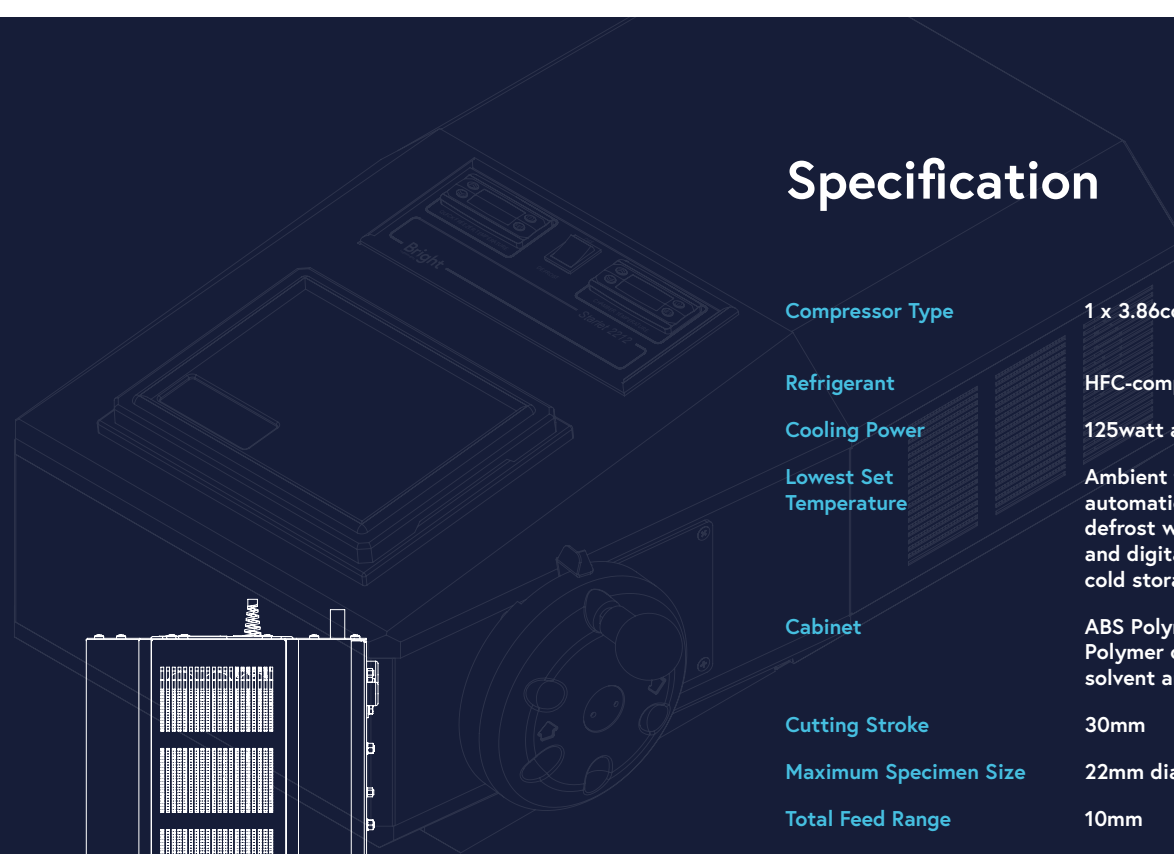
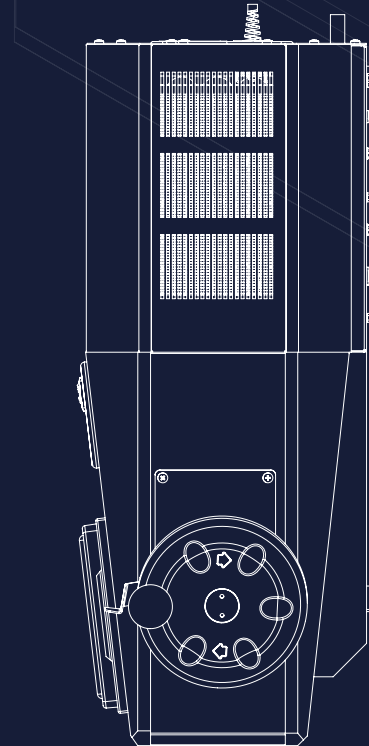
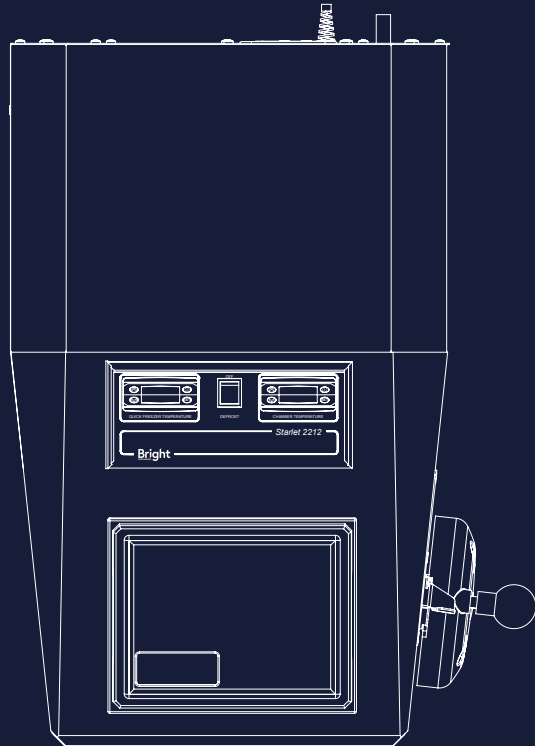
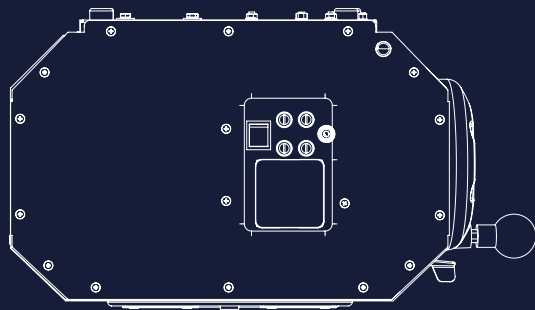
## The Miniature Radial Microtome

Unique to and designed specifically for the Starlet, the microtome is of radial, flat cutting design and can be operated by either a handwheel or a lever. Weighing approximately 1.8kg, the microtome is capable of cutting a wide range of specimens including soft tissue, hair follicle, cardiac muscle and lung. The Magnacut disposable blade system is fitted as standard, using long-life disposable blades for quick results, and of course, it eliminates the inconvenience of knife sharpening.

Complete with an Easi-Set anti-roll plate, the Starlet is fitted with a 2-12 $\mu\text{m}$  feed screw for sectioning in 2 $\mu\text{m}$  increments, although a 4-24 $\mu\text{m}$  feed screw is available as an alternative. Taking only seconds to remove from the chamber, the microtome is easy to clean, resists corrosion and is easy to service. Very little routine maintenance is required.

## Environmentally Compliant

The Starlet uses a HFC refrigerant blend that is in compliance with GWP guidelines.



# Specification

<b>Compressor Type</b>	1 x 3.86cc displacement
<b>Refrigerant</b>	HFC-compliant refrigerants
<b>Cooling Power</b>	125watt at -35°C
<b>Lowest Set Temperature</b>	Ambient to -35°C with automatic programmable defrost with manual override and digital display. Detachable cold storage bar.
<b>Cabinet</b>	ABS Polymer and Stelvetite Polymer coated steel - scratch, solvent and detergent resistant.
<b>Cutting Stroke</b>	30mm
<b>Maximum Specimen Size</b>	22mm diameter
<b>Total Feed Range</b>	10mm
<b>Knife Holder</b>	Magnacut blade holder with long-life disposable blades and integral anti-roll system
<b>Object Holders</b>	22mm
<b>Specimen Orientation</b>	Adjustable tilt angle 0-12°
<b>Specimen Thickness Range</b>	2-12µm in 2µm increments 4-24µm optional
<b>Dimensions</b>	H315 x W465mm(min)/ 546mm(max) x D740mm
<b>Packing</b>	Net weight: 40kg Gross weight: 48kg Packing dimensions: H400 x W920 x D550mm Shipping volume: 0.20m3

Weights vary according to specification of instrument

# 2212 Starlet

## Order List 2021

PRODUCT	
Code	Description
2212-021	<p><b>Starlet 2212 Cryostat for 22/240V AC, 50/60Hz</b></p> <p>Complete with:</p> <ul style="list-style-type: none"> <li>• Single refrigeration system (-30 degree).</li> <li>• Manual microtome with 2-12um feed.</li> <li>• Magnacut knife holder with ten long life disposable blades.</li> <li>• Magnaplate anti-roll plate system.</li> <li>• Handwheel operation.</li> <li>• Specimen quick freeze (-40 degree) with digital display.</li> <li>• Programmable automatic defrost.</li> </ul> <p>Standard accessories include:</p> <ul style="list-style-type: none"> <li>• Anti-roll plate.</li> <li>• 2 x object holders.</li> <li>• Knife, cleaning brush.</li> <li>• Detachable shelf.</li> <li>• Debris tray.</li> <li>• Blade removal tool.</li> <li>• Spare set of fuses.</li> <li>• Low temperature grease.</li> <li>• **Cryospray freezing spray.</li> <li>• Cryo-M-Bed embedding compound</li> <li>• Insulated cover.</li> <li>• Operating manual.</li> </ul>
2212-022	<b>Starlet 2212 Cryostat (Same as 2212-021) for 110/120V AC, 60Hz</b>
2212-024	<b>Starlet 2212 Cryostat (Same as 2212-021) for 100V, 50/60Hz</b>

### ADDITIONAL INFORMATION

Description	Price
UK Delivery and Set UP	£450
Export Delivery is Ex Works, unless stated otherwise POA	

ACCESSORIES	
Code	Description
50894-3	Cryo block embedding mould, 22mm diameter.
50894-2	Cryo block embedding mould, 16mm diameter.
50894-1	Cryo block embedding mould, 10mm diameter.
50874	Orientating object holder, complete with stem.
50909	4-24 um feed screw ( in place of 2-12um feed screw).
50813*	Object holder, 22mm diameter.
50829	Easi-Set anti-roll plate.
52278*	Insulated night plug.
52281	Ultra violet night decontamination unit, consisting of night plug, power supply & germicidal lamp.
50848*	Detachable shelf.
57713-1*	Bright Cryospray 134, 300ml aerosol can.
57713	Bright Cryospray 134, 300ml aerosol can, carton of 12.
53581-1*	Bright Cryo-M-Bed, 120ml bottle.
53581	Bright Cryo-M-bed, 120ml bottle, carton of 6 bottles.
57355*	Low temperature grease, 5g net.
57344*	Knife cleaning brush.
57808	Anti static brush, 12mm.
50300-1*	Magnaplate anti-roll plate x3 & handle.
52727	Pack of 50 long life disposable Magnacut blades, C profile.
51564*	Blade removal tool.
53768	Replacement microtome only - Rotary operation.
53559	Spare fuse set for 2212-021 and 2212-001.
53560	Spare fuse set for 2212-022 and 2212-002.
53569	Spare fuse set for 2212-023 and 2212-003.

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

Telephone: +44 (0) 808 168 9697  
 Web: [brightinstruments.com](http://brightinstruments.com)  
**MADE IN BRITAIN** 

\*Included in standard order | \*\*Not included in overseas orders. VAT not included - E & OE

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 Instruments

Agent / Distributor info:

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Ernie Business Park  
Huntingdon  
Cambridgeshire  
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