

2212 Starlet Bench-Top/ Portable Cryostat

At the cutting edge of
sectioning technology

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°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 cool-down times, down to -35°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 re-sharpening. Complete with an Easi-Set anti-roll plate, the Starlet is fitted with a $2\text{-}12\mu\text{m}$ feed screw for sectioning in $2\mu\text{m}$ increments, although a $4\text{-}24\mu\text{m}$ 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.

Specifications

Compressor type	• 1 x 3.86cc displacement
Refrigerant	• HFC-compliant refrigerants
Cooling power	• 125watt at -35°C
Lowest set temperature	• Ambient to -35°C with automatic programmable defrost with manual override and digital display. Detachable cold storage bar
Cabinet	• ABS Polymer and Stelvetite Polymer coated steel - scratch, solvent and detergent resistant
Microtome	• Cutting Stroke: 30mm • Maximum specimen size: 22mm diameter • Total feed range: 10mm • Knife holder: Magnacut blade holder with long-life disposable blades and integral anti-roll system • Object holders: 22mm • Specimen orientation: Adjustable tilt angle $0\text{-}12^{\circ}$ • Section thickness range: $2\text{-}12\mu\text{m}$ in $2\mu\text{m}$ increments $4\text{-}24\mu\text{m}$ optional
Dimensions	• H315 x D740 x W465mm(min)/W546mm(max) • Net weight: 40kg • Gross weight: 48kg • Shipping volume: 0.20m³ • Packing dimensions: H400 x D920 x W550mm
Weights vary according to specification of instrument	

Further information is available on request. Do you have a specific need? If so, consult us. Our equipment and production facilities are flexible and are not limited to those described in this brochure.

The Bright Instrument Company has a policy of constantly seeking improvements to its products and therefore reserves the right to change specifications without notice and to incorporate such changes as convenient during manufacture.

Ordering Information

Order Code	Description
2212-021	Starlet 2212 Cryostat (handwheel) for 220/240V, 50/60Hz
2212-001	Starlet 2212 Cryostat (lever) for 220/240V, 50/60Hz
2212-022	Starlet 2212 Cryostat (handwheel) for 110/115V, 50/60Hz
2212-002	Starlet 2212 Cryostat (lever) for 110/115V, 50/60Hz
Optional Feature	
/U	Ultra violet light decontamination unit

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