

CG-500, CG-450 CG-400, CG-200 Freezer/Mill[®] Cryogenic Grinders



- Low maintenance design with no moving parts
- Equipped with liquid nitrogen level sensor, insulated case and lid safety interlock switch for operator protection (liquid nitrogen required for operation)
- Dual electromagnetic grinding technology
- Grinds samples in the 0.1 gram to 200 gram range
- Each grinding chamber holds one large grinding vial, one mid-size vial, four standard grinding vials, or four microvial sets

Some samples are impossible to grind at ambient temperatures. The Freezer/Mill is a unique grinding machine that uses liquid nitrogen to embrittle unconventional materials (that are difficult to grind at room temperature) and pulverizes them to a powder form without thermal degradation. Samples are placed in sealed cryogenic grinding vials then immersed in liquid nitrogen. The samples are cooled to cryogenic temperatures then ground by a magnetically shuttling impactor.

Since the vials are sealed, the cryogenic grinder maintains the integrity of its contents. Volatile compounds are retained, hazardous or critical samples are easily controlled, clean-up is simplified, and cross-sample contamination is eliminated.

Features



Intuitive color LCD touch screen controller



Magnetic grinding mechanism; no mechanical moving parts



Designed for vigorous horizontal milling



Continuous cooling with liquid nitrogen sample vial immersion

Typical Applications Include

DNA/RNA extraction, forensic/pharmaceutical testing, RoHS/WEEE, consumer product testing, food safety, materials research, and medical research.

Sample Types Include



Plastics & Polymers



Animal Tissue



Pharmaceuticals



Cannabis



Yeast

Before & After Samples – Bottle Caps



Specifications – CG-500 Freezer/Mill

High-capacity cryogenic grinder with dual grinding and cooling chambers. It can grind and cool up to 200 g of samples (0.5 to 100 g per chamber). Each grinding chamber holds one large grinding vial, one mid-size vial, four small grinding vials, or four microvial sets each. Comes equipped with liquid nitrogen auto-fill.

Voltage	115 VAC, 60 Hz or 230 VAC, 50 Hz
Dimensions	50.8 x 54.6 x 64.8 cm (20.0 x 21.5 x 25.5")
Net Weight	35.4 kg (78 lb)



Specifications – CG-450 and CG-400 Freezer/Mill

Large cryogenic grinder that accommodates up to 100 g of samples. It has one dual-purpose chamber that precools and grinds samples. Its grinding chamber holds one large grinding vial, one mid-size vial, four small grinding vials, or four microvial sets. The CG-450 comes equipped with liquid nitrogen auto-fill. The CG-400 is manually filled with liquid nitrogen.

Voltage	115 VAC, 60 Hz or 230 VAC, 50 Hz
Dimensions	52.0 x 55.0 x 46.0 cm (20.5 x 21.5 x 18.0")
Net Weight	20 kg (44 lb)



Specifications – CG-200 Freezer/Mill

Compact cryogenic mill that accommodates samples from 0.1 to 5 g. It has one dual purpose chamber that precools and grinds samples. It can hold one small grinding vial, or three microvials.

Voltage	115 VAC, 60 Hz or 230 VAC, 50 Hz
Dimensions	48.0 x 27.0 x 32.0 cm (19.0 x 10.5 x 12.8")
Net Weight	8.6 kg (18.9 lb)



Need a Demo?

- Virtual sample processing – virtual demonstration of the equipment and sample processing
- Physical sample processing – physical testing of your sample with shared results
- Physical equipment testing – a demo unit can be sent to your facility to test before purchasing

Contact us today at sampleprep@antylia.com for details.

Ordering Information

Description	Item Number
CG-500 Freezer/Mill, Dual Chamber Cryogenic Grinder, 115 VAC, 60 Hz	04500-42
CG-500 Freezer/Mill, Dual Chamber Cryogenic Grinder, 230 VAC, 50 Hz	04577-94
CG-400 Freezer/Mill, High-Capacity Cryogenic Grinder, 115 VAC, 60 Hz	04500-40
CG-400 Freezer/Mill, High-Capacity Cryogenic Grinder, 230 VAC, 50 Hz	04577-92
CG-450 Freezer/Mill, High Capacity Cryogenic Grinder with Auto-Fill, 115 VAC, 60 Hz	04500-41
CG-450 Freezer/Mill, High Capacity Cryogenic Grinder with Auto-Fill, 230 VAC, 50 Hz	04577-93
CG-200 Freezer/Mill, Compact Cryogenic Grinder, 115 VAC, 60 Hz	04500-39
CG-200 Freezer/Mill, Compact Cryogenic Grinder, 230 VAC, 50 Hz	04577-77

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