

Blast Freezer

About

A blast freezer is a high-performance cooling appliance designed to rapidly bring down the temperature of materials or products to sub-zero levels. This fast freezing process is crucial for preserving the integrity, structure, and stability of various substances across industries.



Key Features

- ✓ Rapid Freezing Capability – Reaches -35°C to -40°C in minimal time
- ✓ Precision Cooling – Uniform temperature distribution
- ✓ Durable Construction – Stainless steel interiors and industrial-grade insulation
- ✓ Digital Control Panel – User-friendly interface for monitoring and adjustment
- ✓ Customizable Interiors – Compatible with various tray, shelf, or rack systems
- ✓ Eco-Friendly Refrigeration – Uses modern refrigerants like R404A or R507
- ✓ Energy Efficiency – Optimized for reduced power consumption and long-term reliability

Advantages Over Conventional Cooling

Aspect	Conventional Freezer	Blast Freezer
Cooling Time	6–24 hrs	30–240 mins
Material Integrity	May be affected	Well preserved
Contamination Risk	Higher	Minimized
Application Flexibility	Limited	Wide-ranging

Applications:

Suitable for a wide range of sectors:

- R&D and material science
- Medical and diagnostic sample preservation
- Electronics and component testing environments
- Food processing and preservation
- Pharmaceutical and biotech industries
- Chemical and laboratory material storage

Technical Data



Temperature range	As low as -40 Degrees.
Display	Digital Display with Microprocessor based controlling
Inner chamber	Made of SS 304 grade
Outer Chamber	Powder coated Mild Steel
Cooling system	Forced Air cooling system
Condenser Coil	The heat exchanger Coil is air cooled condenser, fitted at the bottom of unit
Illumination Refrigerant	8 WattsFluorescentTube CFC free refrigerant.
Insulation	Polyurethane foam "PUF".
Door	Double door system with inner acrylic door to avoid temperature loss
Power Source	220 Volts Single Phase AC

Wheels	Castor with brakes
Alarm	Audio Visual Alarm for door open, temperature High/Low

Our Certifications



GeM
Government
e Marketplace





Customization & Services



We offer:

- Flexible capacities and design options
- Integration with laboratory or industrial workflows
- Installation support and operational training
- Preventive maintenance and AMC
- Compliance with GMP, ISO, or other regulatory standards

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