

Eutectic Freezer

Efficient cooling. Even 12 hours after a power cut.





With over six decades of experience in cooling solutions, Blue Star, India's leading airconditioning and refrigeration company offers a revolutionary deep freezer - the Eutectic Freezer.

Designed to keep produce fresh and frozen even through power cuts, for as long as 12 hours at rated conditions, the Eutectic Freezer is a technological breakthrough by Blue Star engineers. This innovation further consolidates our leadership in the deep freezer market.

So if your business depends on freezers to keep products frozen, but is plagued by long and erratic power cuts, the Eutectic Freezer is for you. No more molten ice-cream. No more spoilt produce. Switch to Blue Star's Eutectic Freezer. And breathe easy, even through those troublesome power cuts.

The Eutectic Freezer

In basic application, Blue Star's Eutectic Freezer is like any other Blue Star deep freezer – easy to use, reliable, robust, and long-lasting – efficiently storing your products in deep freeze state.

What makes the Eutectic Freezer stand apart becomes apparent when you run into a long power cut, a common situation in most Indian cities. Blue Star's Eutectic Freezer continues to maintain the freezing temperature right through long power cuts – even as long as 12 hours at rated conditions – while standard freezers do not.

Thus, the Eutectic Freezer ensures preservation of your materials and a successful business, even in areas where power cuts are common. Whereas standard freezers may lead to melting, or worse, spoilage of stored materials, leading to business losses and dissatisfied customers.



Eutectic Technology

Blue Star's Eutectic Freezer is lined on all sides with a special eutectic material (called the phase change medium, or PCM) which solidifies when the power is on.

When the power fails, the PCM – which is stored within eutectic plates that line all the walls of the freezer – sucks heat from within the freezer to slowly revert to liquid state. This slow heat suction ensures that the temperature within the freezer remains low for a very long time.

Blue Star's Eutectic Freezer is designed to ensure that the temperature within holds for as long as 12 hours without power, once the desired deep freeze temperature is reached within the freezer.

Features & Benefits



Twelve Hours Holding Time Without Power*

- 'Next Generation' Phase Change Material keeps frozen food frozen up to 12 hours
- Innovative sliding glass lid prevents loss of cooling when upper lid is open
- Higher capacity refrigeration system for faster cooling and higher holding time



Super-safe Design

- Non-toxic and Non-corrosive PCM
- PCM is encased in high impact resistant, food-grade plastic containers, using a sealed design
- Inner lining of pre-painted steel for additional safety



Highly Durable and Reliable

- Pre-painted outer and inner body
- Uniform puff thickness of 60 mm
- Stronger Compartment support for longer life
- Separate base plate for cassette condensing units for ease of maintenance and service
- Sunken Recessed handle to support high usage
- Embossed cut outs for control panel, side and back grilles for higher durability
- Castors mounted on compressor side for higher support
- Tropicalised for high ambients

* Hold time: One door opening every 15 minutes



Technical Specifications

Model No.- ECSFD300AA		
Performance Parameters	Freezer Type	Hard Top Eutectic Freezer
	No. of Lids	One
	Voltage / Frequency / Phase	230 V / 50 Hz / Single
	Maximum Operating Conditions (Temp°C)	43°C
	Gross Capacity (Litre)	300 Litre
	Net Capacity (Litre)	238 Litre
	Temp Range (°C)	-18°C to -22°C
	Running Current (Amp)	1.5 Amp
	Power Input (W)	210 W
	Condenser	Forced - Fin & Tube Type
	Features	Inner Cabinet
Handle		Recessed
Lock		Yes
Puff Thickness		60 mm
Temperature Controller Access		Front Side
Drain Outlet		Front Side
No. of Baskets		One
Castors		Rollers
Hinges		Spring Loaded Hinges
Joiner		Yes
Partition		No
Accessory		Defrost Scraper
Eutectic System		Leak-proof plastic eutectic pads placed in inner cabinet panels on all 4 walls in contact with the cold main inner cabinet
Glass	Provided (1 No.)	
Dimensions & Net Weight	Dimension (W X H X D) mm	1140 X 835 X 670
	Net Weight (kg)	94 kg
Compressor	Compressor Type	Reciprocating
Refrigerant		R134a
Application	Conserve Frozen Products	





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