

**RESPECTED,
RELIABLE,
RESILIENT**



FREEZE IT !

DEEP FREEZERS

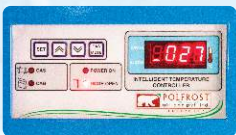
Deep Freezer

Polfrost offers enhanced deep freeze storage for products which preserves their all-round freshness and quality. Available across a wide range of specifications, our specialized Deep Freezers can reach temperatures up to -86°C . These Deep Freezers are highly insulated to ensure efficiency, even in the most demanding environments. Our solutions are built of over 4 decades of experience and engineered for versatility.

Controllers Options



Brainy



Indigenous



Genius



Deep Freezer Range and Features Varying According to Range:

Range:

- **-20°C:**
 - ◆ Vertical
 - ◆ Horizontal [Chest type]
- **-40°C:**
 - ◆ Vertical
 - ◆ Horizontal [Chest type]
- **-50°C:**
 - ◆ Vertical
 - ◆ Horizontal [Chest type]
- **-86°C:**
 - ◆ Vertical
 - ◆ Horizontal [Chest type]
- Further lower temperatures upto -150°C can be designed as per needs in both Vertical & Horizontal [Chest type]

Features varying according to Capacity and Range:

- -20°C, -40°C, -60°C and -86°C all come in the same capacity variations:
 - ◆ **Vertical**
 - o 110 lts. with Single Inner Doors
 - o 200 lts. with Two Inner Doors
 - o 300 lts. with Three Inner Doors
 - o 450 lts. with Three Inner Doors
 - o 550 lts. Two Door side by side with Six Inner Doors
 - o 750 lts. Two Door side by side with Six Inner Doors
 - ◆ **Horizontal [Chest type]**
 - o 110 lts.
 - o 200 lts.
 - o 300 lts.
 - o 450 lts.
 - o 550 lts.
 - o 750 lts.
-

CHEST FREEZER

UPRIGHT FREEZER



Model	Internal Size (cm)			External Size (cm)			Capacity (Net) Liters	Current Capacity
	Height	Width	Depth	Height	Width	Depth		
PF – E20S 110L	50	48	45	110	68	65	110	2 Amp
PF – E30S 110L								2 Amp
PF – E20S 200L	66	60	50	126	80	70	200	3 Amp
PF – E30S 200L								3 Amp
PF – E20S 300L	80	65	58	140	85	78	300	3.5 Amp
PF – E30S 300L								4 Amp
PF – E20S 450L	90	77	65	150	97	85	450	5 Amp
PF – E30S 450L								5.5 Amp
PF – E20S 550L	110	77	65	170	97	85	550	5 Amp
PF – E30S 550L								5.5 Amp

-40, -50 & -60°C ULT Freezer Dimensions

Model	Internal Size (cm)			External Size (cm)			Capacity (Net) Liters	Current Capacity
	Height	Width	Depth	Height	Width	Depth		
PF – E45T CD 110L	50	48	45	80	123	75	110	5 Amp
PF – E45T CD 200L	60	66	50	90	141	80	200	6.5 Amp
PF – E45T CD 300L	65	80	58	95	155	88	300	7.5 Amp
PF – E45T CD 450L	77	90	65	107	120	95	450	8 Amp
PF – E45T CD 550L	77	110	65	107	185	95	550	8 Amp



CHEST FREEZER



UPRIGHT FREEZER

-40, -50 & -60°C ULT Freezer Dimensions

Model	Internal Size (cm)			External Size (cm)			Capacity (Net) Liters	Current Capacity
	Height	Width	Depth	Height	Width	Depth		
PF – E45S CD 110L	50	48	45	125	78	75	110	5 Amp
PF – E45S CD 200L	66	60	50	141	90	80	200	6.5 Amp
PF – E45S CD 300L	80	65	58	155	95	88	300	7.5 Amp
PF – E45S CD 450L	90	77	65	165	107	95	450	8 Amp
PF – E45S CD 550L	110	77	65	185	107	95	550	8 Amp

-70 & -86°C ULT Freezer Dimensions

Model	Internal Size (cm)			External Size (cm)			Capacity (Net) Liters	Current Capacity
	Height	Width	Depth	Height	Width	Depth		
PF – E80T CD 100L	50	45	45	80	115	75	100	5 Amp
PF – E80T CD 180L	60	60	50	90	130	80	180	6.5 Amp
PF – E80T CD 300L	65	80	58	95	150	88	300	7.5 Amp
PF – E80T CD 350L	65	83	65	95	153	95	350	8 Amp
PF – E80T CD 450L	77	90	65	107	170	95	450	9 Amp

CHEST FREEZER



-70 & -86°C ULT Freezer Dimensions

UPRIGHT FREEZER



Model	Internal Size (cm)			External Size (cm)			Capacity (Net) Liters	Current Capacity
	Height	Width	Depth	Height	Width	Depth		
PF – E80S CD 100L	50	45	45	120	85	75	100	5 Amp
PF – E80S CD 180L	60	60	50	135	90	80	180	6.5 Amp
PF – E80S CD 300L	90	65	51	165	95	81	300	7.5 Amp
PF – E80S CD 350L	98	65	55	173	95	85	350	8 Amp
PF – E80S CD 450L	110	75	55	185	105	85	450	9 Amp

Specifications: -20 & -30°C

Technical:

1. Type: Deep Freezer
2. Cabinet type: Horizontal / Vertical
3. Climate class: Any climatic conditions
4. Cooling type: Natural Convection / Forced Draft ●
5. Defrost mode: Electric
6. Refrigerant: R404A
7. Noise level: <50 dBA
8. Air flow: ●
9. Temperature range (°C): upto -20°C

Controls:

1. **Controller:** Polfrost Indigenous / Polfrost Brainy-PLC / Polfrost Genius-PLC / Ion Controls / Sub Zero
2. **Display:** 65536 colour TFT / Monochrome TFT / LED as per controls selected

Electrical data: Power supply:
240V / AC / 1PH

Functions:

1. High / Low alarm ☒
2. Remote alarm ☒
3. Hot Condenser ☒ ●
4. Voltage Fluctuation alarm ☒ ●
5. Power failure ☒
6. Low battery ☒
7. Sensor failure ☒
8. High ambient ☒ ●
9. Door ajar ☒

Accessories:

1. **Castor:** ☒
2. **Foot:** ●
3. **Testing hole:** ●
4. **No. of shelves / inner doors:** Subject to capacity / Special Requirement
5. **Temperature recorder:** ☒
6. **USB interface:** ●
7. **CO2 backup:** ●
8. **Racks & boxes:** ●
- Voltage Stabilizer** ●

Certificates: CE, ISO 9001, 14001, 13485.

[●=Optional]



Specifications: -40, -50 & -60°C

Technical:

1. Type: LT Deep Freezer
2. Cabinet type: Horizontal / Vertical
3. Climate class: Any climatic conditions
4. Cooling type: Natural Convection
5. Defrost mode: N/A
6. Refrigerant: R404A
7. Noise level: <50 dBa
8. Air flow: ●
9. Temperature range (°C): upto -60°C

Controls:

1. **Controller:** Polfrost Indigenous / Polfrost Brainy-PLC / Polfrost Genius-PLC / Ion Controls / Sub Zero
2. **Display:** 65536 colour TFT / Monochrome TFT / LED as per controls selected

Electrical data: Power supply:
240V / AC / 1PH

Functions:

1. High / Low alarm ☒
2. Remote alarm ☒
3. Hot Condenser ☒ ●
4. Voltage Fluctuation alarm ☒ ●
5. Power failure ☒
6. Low battery ☒
7. Sensor failure ☒
8. High ambient ☒ ●
9. Door ajar ☒

Accessories:

1. **Castor:** ☒
2. **Foot:** ●
3. **Testing hole:** ●
4. **No. of shelves / inner doors:** Subject to capacity / Special Requirement
5. **Temperature recorder:** ☒
6. **USB interface:** ●
7. **CO2 backup:** ●
8. **Racks & boxes:** ●
- Voltage Stabilizer** ●

Certificates: CE, ISO 9001, 14001, 13485.
[●=Optional]



Specifications: -70 & -86°C

Technical:

1. Type: ULT Deep Freezer
2. Cabinet type: Horizontal / Vertical
3. Climate class: Any climatic conditions
4. Cooling type: Natural Convection
5. Defrost mode: N/A
6. Refrigerant: R404A
7. Noise level: <50 dBA
8. Air flow: ●
9. Temperature range (°C):
upto -86°C

Controls:

1. **Controller:** Polfrost Indigenous / Polfrost Brainy-PLC/ Polfrost Genius-PLC / Ion Controls / Sub Zero
2. **Display:** 65536 colour TFT / Monochrome TFT / LED as per controls selected

Electrical data: Power supply:
240V / AC / 1PH

Functions:

1. High / Low alarm ☒
2. Remote alarm ☒
3. Hot Condenser ☒ ●
4. Voltage Fluctuation alarm ☒ ●
5. Power failure ☒
6. Low battery ☒
7. Sensor failure ☒
8. High ambient ☒ ●
9. Door ajar ☒

Accessories:

1. **Castor:** ☒
2. **Foot:** ●
3. **Testing hole:** ●
4. **No. of shelves / inner doors:** Subject to capacity / Special Requirement
5. **Temperature recorder:** ☒
6. **USB interface:** ●
7. **CO2 backup:** ●
8. **Racks & boxes:** ●
- Voltage Stabilizer** ●

Certificates: CE, ISO 9001, 14001, 13485.
[●=Optional]



Eutectic Deep Freezers :

Presenting no- problems freezers with eutectic technology. An answer to frequent power failures and severe Indian summer.

Eutectic freezers are specially designed and developed for places where power shutdown is for longer duration (upto 10 hours continuous). These freezers have an inbuilt jacket which holds eutectic solutions.

This eutectic solutions has a property to hold the temperature for longer duration which results in longer temperature holding time of the freezers of upto 10hrs during power failure and you can cell ice-cream during this period too.

1. Eutectic jacket with very high latent heat ensures product temperature below - 18°C for 8 to 10 hours in the event of power failure.
2. Compact design with large net storage capacity.
3. Robust construction & elegant books.
4. High density, environment friendly, polyurethane foam for better insulation, using high pressure injection machine.
5. R-134 / R-404 eco friendly refrigerants.
6. Energy saver compressor & well balanced refrigeration system for low energy consumption.
7. PVC coated baskets for glass top freezers.
8. Imported Low-Emissvity glasses for sliding glass top freezers.
9. Designed to meet tropicalised condition corrosion resistant body made of precoated sheet.
10. Heavy duty castors.
11. Temperature range - 17°C to -24°C.



EUTECTIC HARD TOP FREEZERS

Model	Gross Vol. Liters.			Net. Wt. Kg.			Dimensions WxDxH (mm)	Energy Consumption Kwh/24hrs.
	Height	Width	Depth	Height	Width	Depth		
PF – E80SCD 100L	50	45	45	120	85	75	100	5 Amp
PF – E80SCD 180L	60	60	50	135	90	80	180	6.5 Amp
PF – E80SCD 300L	90	65	51	165	95	81	300	7.5 Amp
PF – E80SCD 350L	98	65	55	173	95	85	350	8 Amp
PF – E80SCD 450L	110	75	55	185	105	85	450	9 Amp

EUTECTIC HARD TOP FREEZERS

Model	Gross Vol. Liters.	Net. Wt. Kg.	Dimensions WxDxH (mm)	Energy Consumption Kwh/24hrs.
200 HT	200	68	805 x 610 x 950	2.2
300 HT	300	90	1070 x 610 x 950	3.0
400 HT	400	107	1365 x 610 x 950	4.2
500 HT	500	130	1730 x 610 x 950	5.0
30 CFT STORAGE	850	230	3050 x 889 x 950	7.0
57 CFT STORAGE	1600	425	3050 x 970 x 950	12.0

EUTECTIC SLIDING GLASS TOP FREEZERS

200 GTS	200	73	830 X 690 X 840	2.8
300 GTS	300	90	1120 X 690 X 840	3.2
400 GTS	400	110	1380 X 690 X 840	4.5
500 GTS	500	120	1600 X 690 X 840	5.5

ICE CREAM HARDENING MACHINE (BLAST TYPE)

Model	Dimensions WxDxH (mm)	Electrical Input	Hardening Capacity	Inner Vol Litre	Energy Consumption Kwh/hr
HD2TR	L W HT 2285 x1118 x 1755	3pH440v 4 Amps Line Current	700 party packs in 2 to 3 hrs.	1400	2.5

CURVED GLASS DISPLAY PARLOURS

			Dimensions	No of 4lt. Bulk	Energy Consumption Kwh/24hrs.
300 Ltr 12 FL	300	105	1120 x 690 x 840	12	5.0
400 Ltr 15 FL	400	130	1380 x 690 x 840	15	6.0
500 Ltr 15 FL	500	150	1600 x 690 x 840	21	8.0



GLYCOL FREEZERS ON WHEELS (FOW)

Model	Gross Vol. (liters)	Net. Wt. Kg.	Dimensions WxDxH (mm)	Energy Consumption KWH/12h rs.
80 Ltr Trike	80	81	940 x 610 x 700	3.6
110 Ltr Trike	110	90	975 x 670 x 755	5.5
45 CFT FOW	1270	400	2030 x 1015 x 1450	12.0



REFRIGERATED LAB EQUIPMENT:

- Freezers -20°C to -86°C for Labs – Pathology, Medicine, Life Science, Pharma.
- Circulating Baths - Cryostat
- Blood Bank Cold Chain : -14°C, -30°C, -45°C to -86°C.
- Platelet Agitator Incubator, Cryobath, Centrifuge, Bag sealer, Blood Bag Collector, Vaccine carrier.

COOL & COLD ROOMS:

- +22°C to + 4°C, -10°C, -25°C, -45°C, -70°C. Digital Microprocessor / PLC Controls.

INDUSTRIAL REFRIGERATION:

- Chillers : 5 to 5000 Liters; 22°C to -70°C; Process & Industrial Circulation, Digital Microprocessor / PLC Controls.
- Unit Coolers, Condensing Units.
- PUF / Insulation Panels.
- Door Systems.
- Tailor made refrigeration & HVAC products.

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