



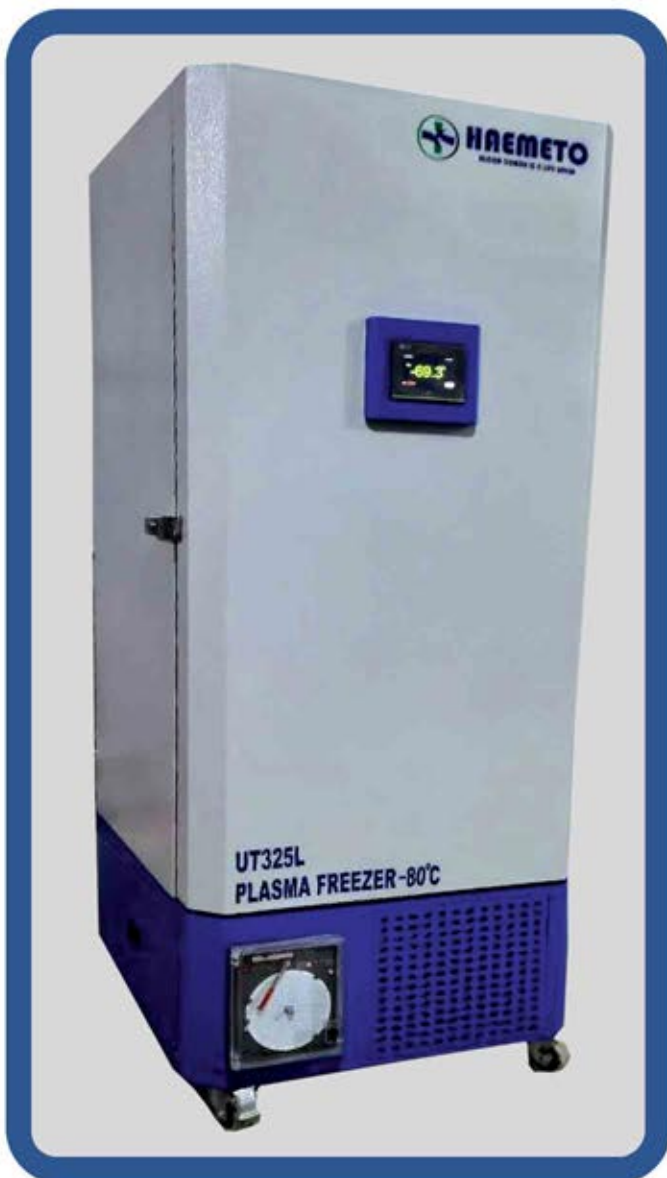
BLOOD TRANSFUSION AND ITS
COMPONENTS STORAGE SYSTEMS

PLASMA STORAGE FREEZER -80°C



OPTIMIZE BLOOD CARE WITH ADVANCED TECHNOLOGY

HIGH VITAL PROTECTION
FOR YOUR



VALUABLE PLASMA
PRODUCTS.

All HAEMTO Deep Freezer reaches the customer only after five stringent levels of quality tests.



Unique Expansion Valve Technology

Each HAEMTO Freezer is developed after rigorous research by a group of experts, using high quality components and international standard compressor and unique expansion valve technology.

- The compressor is automatically regulated according to the freezer load and enjoys a long-life of usage
- The pressure-sensitive mechanism used protects the compressor in the long run
- The shell temperature of the compressor is always low, which ensures high reliability.
- The imported oil separator ensures proper oil returns to the compressor, which improves reliability.

Robust Construction and Endearing Look

- Comes with a fully stainless-steel interior
- The heavy gauge, CRCA/HDGI exterior with powder coating keeps the equipment free from rusting and chipping.
- The 3 Interior trays are made of SS304 grade stainless steel. They are height adjustable for multiple usage and maximum storage.
- The 12.5 cm foamed in PUF insulation in exterior walls and door ensures ultimate protection and safety for your plasma products. Proper insulation results in more temperature holding time and reduced power consumption.
- The triple rubber gasket sealing and handle with selfpushing mechanism keeps the plasma products completely protected in the freezer. The seal reduces humidity migration into the interior and preserves the cold air inside the cabinet.
- The hot line around the mouth of the cabinet prevents condensate formation.
- The 4 stainless steel interior compartments doors with magnetic latches ensures secure storage and less cold air loss during the opening and closing of the doors.
- The imported castor wheels make moving the deep freezer around in blood banks easy.

Never leaves you in the dark

- The eye-level positioning of the chart recorder and temperature display makes the user information more accessible and convenient.
- The 24 hours battery back-up for temperature recording unit keeps the temperature monitoring uninterrupted and protects your valuable samples around the clock
- Userfriendly alarms and indications in HAEMTO Deep Freezer displays possible abnormalities

Line Voltage Corrector for increased compressor life

- The 5KVA external stabilizers stabilizes the input voltage up to 170-270 VAC and give a constant output voltage of 190-240 VAC to the compressor.
- Prevents the entry of excess or low voltage to the freezer
- Gives protection from short circuits and high temperature
- The compressor life is secured by reliable operation irrespective of input voltage.

Eco-friendly Refrigerants and Insulation

- All refrigerants used in HAEMTO Plasma Freezers are CFC free and are commercially widely available
- CFC free PUF insulation



- The eye-level display of temperature and the seven days chart recorder ensures continuous monitoring.
- The temperature controller with 0.1 °C resolution comes with battery backup

- The storage rack is easily removable by tilting and it's designed as a centralized storage location for IQ/OQ procedures, inventory control records ?
- The fully stainless-steel interior ensures high durability



- Triple-layer rubber gasket sealing and handle creates a seal which reduces the impact of ambient
- Temperature and humidity in the inner chamber

- PUF thickness of 130mm.
- The three-height adjustable stainless-steel trays with upper folding



- Self-pushing door lock with key for accessibility
- The rust-free stainless-steel door hinge makes the door open up to an angle of 120 degrees .
- The Wall Damage protection provided on backside of the equipment

SPECIFICATION	PLASMA FREEZER -80°C	HMPL / ULT 325L
Type	Vertical	
Input voltage of Deep Freezer	230+/-10% V, 50Hz, Single phase AC (without stabilizer)	
Voltage stabilizer	5KVA External stabilizer (Input: 170-270V, 50Hz, Single phase AC)	
Chamber temperature range	-50°C to -80°C (at 22 - 28°C ambient temperature)	
Weight (Approx.)	340 KG	
MDD classification	Class II a	
Power consumption	2500W(Max)	
Dimensions(external)(W x D x H)in mm*	760 x 850 x 1940 (with castor wheel)	
Dimensions(internal)(W x D x H)in mm*	550 x 500 x 1200	
Inner chamber volume	325 Liters	
Total storage capacity	320 bags of 250 ml plasma bags	
Storage capacity per compartment	80 bags per compartment	
Number of trays	3 fixed / adjustable stainless-steel trays	
Number of compartments	4 compartments	
Inner doors	4 Nos. made of stainless steel 304 Grade	
Door insulation	130 mm thick PUF insulated door with rubber gasket sealing	
Cabinet insulation	130 mm thick PUF insulation	

Door lock	Handle with self-door opening with key facility
Heating near the door opening	Using the discharge line of compressor
Outer cabinet material	1.5mm thick CRCA/HDGI sheet-powder coated
Inner chamber material	1.2mm thick stainless-steel sheet of 304 Grade
Wheels	Castor wheel - lockable type on front (2nos) Castor wheel - non- lockable type on rear (2nos)
Refrigerant	Primary R404a (CFC FREE) Secondary R 23 (CFC FREE)
Compressor	Two hermetically sealed imported compressors
Insulation of the suction line	Polyurethane tubing
Temperature sensing method	RTD sensor placed in a stainless-steel bracket fitted at the left side of the second compartment from the bottom side.
Temperature sensor	RTD sensor - PT100
Chart range	-100°C to +50°C
Duration of the chart	7 days
Display resolution of controller	0.1°C
Chart resolution	3°C
Method of recording	Ink pen on paper/pressure sensitive chart paper(optional)
High temperature alarm	Set value +10°C
Low temperature alarm	Set value -10°C
Manufacturing standards	ISO 9001: 2008, EN ISO 13485 : 2016
Standards & Approval	CE, NABL



Started 2017 in the name of RISHI MEDICAL SYSTEM with proprietary firm as the quality Indian manufacturer of blood bank equipment's and in the year of 2024, company developed and converted as partnership firm in the name of HAEMETO Meditech Equipment Private Limited, HAEMETO Meditech Equipment Private Limited continues to be the market leader in India in the field of equipment for the Blood Transfusion industry. With a comprehensive range of products covering collection, processing, storage and issue of blood, HAEMETO continues to serve the leading blood banks in India and around the world.

STORAGE EQUIPMENT

HAEMETO guarantees High quality equipment which provides the uniform temperature requirement for blood components, and enables the contamination-free storage and transportation of blood from collection to transfusion processes.

Our Deep Freezers are specially designed for Blood Banks, Research Institutes, and Biotechnology Firms. The storage of the multiple components of the plasma family within the prescribed temperatures (-80/-40) is ensured in HAEMETO Deep Freezers using its Rapid Freezing power.

"Plasma frozen within 5 hours after blood collection and stored at a temperature not warmer than -30°C , shall be preserved for a period of time not more than one year".

Indian Drugs and Cosmetic Act

"Label the plasma bag and freeze rapidly. This should be done as soon as possible after collection, within 6 to 8 hours. The complete freezing process should be as short as possible and preferably should not take more than 1 hour."

Transfusion Medicine-Technical Manual

"FFP frozen and maintained at 65°C or lower may be stored up to 7 years."

AABB Manual



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BLOOD DONOR IS A LIFE SAVER

OTHER PRODUCTS RANGE

**BLOOD COLLECTION
MONITOR**



**REFRIGERATED
CENTRIFUGE**



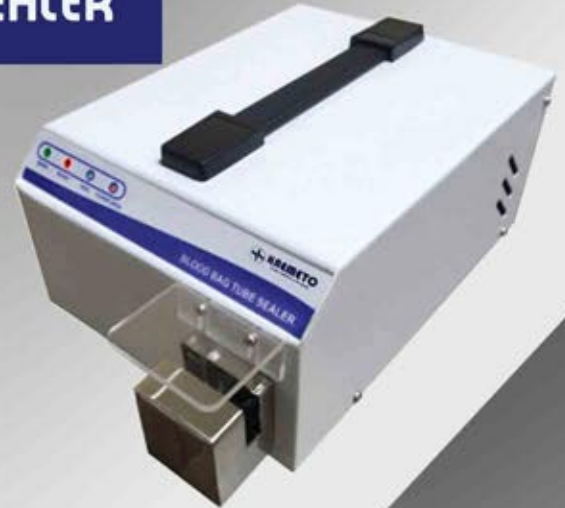
**BLOOD BANK
REFRIGERATOR**



OTHER PRODUCTS RANGE



TUBE SEALER



**PLATELET AGITATOR
AND INCUBATOR**



**BLOOD BANK
REFRIGERATOR**



**FOR MORE DETAILS KINDLY
VISIT HAEMETO WEBSITE...**

<https://haemeto.com>

REGISTERED OFFICE

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