

## SPECIFICATIONS | DEEP FREEZER 40U 300L

### Never leaves you in the dark

- The 24 hours battery back-up for temperature recording unit keeps the temperature monitoring uninterrupted and protects your valuable samples around the clock
- User friendly alarms and indications in Terumo Deep Freezer displays possible abnormalities

### Line Voltage Corrector for increased compressor life

The 4 KVA external stabilizers stabilizes the input voltage up to 170 270 VAC and give a constant output voltage of 190-245 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 Terumo Penpol Deep Freezers are CFC free and are commercially widely available
- CFC free PUF insulation

<b>Type</b>	Vertical
<b>Input voltage of Deep Freezer</b>	230 +/- 10% V, 50 Hz, Single phase AC
<b>Power consumption</b>	2000W
<b>Voltage stabilizer</b>	4KVA external stabilizer (Input: 170-270V,50Hz, Single phase AC)
<b>Chamber temperature range</b>	-20°C to -40°C (at 22 - 30°C ambient temperature)
<b>Dimensions (external) (W x D x H) in mm</b>	805x870x1940 (with castor wheel) 805x870x1812 (without castor wheel)
<b>Dimensions (internal) (W x D x H) in mm</b>	550 x 500 x 1100
<b>Weight</b>	350 Kg
<b>MDD classification</b>	Class II a
<b>Inner chamber volume</b>	300 Litre
<b>Total storage capacity</b>	320 bags of 250 ml plasma bags
<b>Storage capacity per compartment</b>	80 bags per compartment
<b>Number of trays</b>	3 Adjustable stainless steel trays
<b>Number of compartments</b>	4 compartments
<b>Inner doors</b>	4 Nos. made of stainless steel 304 Grade
<b>Door insulation</b>	125 mm thick PUF insulated door with rubber gasket sealing
<b>Cabinet insulation</b>	125 mm thick PUF insulation
<b>Heating near the door opening</b>	Using the discharge line of compressor
<b>Outer cabinet material</b>	1.2 mm HDGI
<b>Inner chamber material</b>	1mm SS304
<b>Wheels</b>	Castor wheel - lockable type on front (2 Nos) Castor wheel - non-lockable type on rear (2 Nos)
<b>Refrigerant</b>	R404a (CFC FREE)
<b>Compressor</b>	Hermetically sealed imported compressor
<b>Insulation of the suction line</b>	Polyurethane tubing
<b>Temperature sensing method</b>	RTD sensor placed in a stainless steel bracket fitted at the left side of the second compartment from the bottom side.
<b>Temperature sensor</b>	RTD sensor - PT100
<b>Chart range</b>	-100°C to +50°C
<b>Alarms and indications</b>	Compressor ON High/Low temperature Door open Battery low Power ON Power Fail
<b>Duration of the chart</b>	7 days
<b>Display resolution of controller</b>	0.1°C
<b>Chart resolution</b>	3°C
<b>Method of recording</b>	Ink pen on paper/pressure sensitive pen on pressure sensitive chart (optional)
<b>High temperature alarm</b>	Set value +10°C
<b>Low temperature alarm</b>	Set value -10°C
<b>Data retrieval</b>	RS232 interface for connecting to computer(optional)
<b>Manufacturing standards</b>	ISO 9001: 2008, EN ISO 13485 : 2012
<b>Standards &amp; Approval</b>	CE, EURoHS
<b>Plasma racks</b>	Optional(Storage capacity may reduce while using plasma racks)