

## STANDARD BLOOD BANK REFRIGERATOR



The "APS" Low Cost Medical Refrigerator/ Blood Bank refrigerator is a specialized refrigerating equipment for cold storage of pharmaceuticals as well as biological products and so forth. It is suitable for hospitals, drugstore, pharmaceuticals factories, sanitation and antiepidemic stations and clinics.

### PRECISE TEMPRATURE CONTROL

- Interior of chamber is stainless steel (SS-304).
- Inner and outer chamber both made of Stainless Steel (SS-304). Door , panel, base plate and top cover made of C.R.C. duly powder coated.
- Fitted with specially designed deviation alarm from the preset temperature, door open alarm and power failure alarm.
- STAINLESS STEEL BASKETS are provided for storage inside.
- Foamed - in - place CFC Free PUF insulation ensure temperature stability and reduced energy temperature.
- Stainless steel heavy duty basket ensures even temperature distribution
- Micro - controller controls the internal temperature between +2°C to +6°C with an accuracy of  $\pm 1^\circ\text{C}$ , for storing blood bottles or blood bags.
- The cooling is effected by a hermetically sealed CFC FREE ECO FRIENDLY COMPRESSOR.
- To work on 220/230 volts A.C

### USER FRIENDLY DESIGN

- Exterior made from high quality structural steel plate, painted by advanced coating technology after the anti corrosion treatment of phosphorization, the superficial luster is gentle, interior made from stainless steel merar finishing.
- Double deck glass door, inert gas, equipped with special lock, four casters are mounted under the bottom.
- Interior fluorescent lighting provides a clear view of stored items.
- Shelves made of quality steel wire soaked with plastic provide convenient access to the stored

Office & First Unit-0-32, Bawana industrial area, Sector-3, delhi-110039, Second Unit-Swaroop Nagar  
Email id : [aps.inst2010@gmail.com](mailto:aps.inst2010@gmail.com), Web: [www.steamsterilizer.net](http://www.steamsterilizer.net), [www.labequipments.net](http://www.labequipments.net)



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articles and easy cleaning.

## REFRIGERATION SYSTEM

Efficient compressor, high efficiency, silence and energy saving. Highly effective condenser and expansile evaporator provide quick freezong. The system should have high density CFC –free urethane foam insulation to protect cabinet from ambient temperature fluctuation. The system should have air-cooled, forced-air refrigeration system for uniformity of  $\pm 1^{\circ}\text{C}$  Should have R-134A non-CFC..

## Technical specification & ordering information

MODEL	APS#BBR-24	APS#BBR-60	APS#BBR-120	APS#BBR-180	APS#BBR-240	APS#BBR-300
Capacity	85 Ltrs.	195 Ltrs.	265 Ltrs.	350 Ltrs.	440 Ltrs.	530 Ltrs.
Inner Tank Size (WxDxH) Inches	18x18.5x17.6	24x28.5x17.6	24x28x24	24x28x32	24x28x40	24x28x48
External Body Size (WxDxH) Inches	23.5x22x34.6	29.4x33x34.6	29x37.4x46	29x37.4x54	29x37.4x64	29x37.4x72
Tray Size (WxDxH)	14.8x17.5x4	20.7x28x4	20x27x4	20x27x4	20x27x4	20x27x4
Blood Bag Accommodation (of 350ml Cap.)	24 Bags	60 Bags	120 Bags	180 Bags	240 Bags	300 Bags
No. Of Drawers	1	1	2	3	4	5
Drawer Capacity	Maximum 60 Bags in each drawer					
Drawer Movement	Adjustable and Extendable Pull Out Modular Drawers.					
Temperature	Preset at $4^{\circ}\text{C} + 0.5^{\circ}\text{C}$ .					
Temperature Alarm	High $6^{\circ}\text{C}$ & low $2^{\circ}\text{C}$ , Audio Visual Alarm.					
MOC (Inner Chamber)	Stainless Steel 304 (AISI Grade, Non Corrosive, Non Magnetic).					
MOC (Outer Chamber)	PCRC sheet duly powder coated					
MOC (Drawers)	PCRC sheet duly powder coated /Stainless Steel 304					
Insulation	Thick foamed in place CFC free polyurethane foam (PUF).					
Illumination	Provided for clear inner view.					
See Through Multipaned Vacuumed Glass Door (OPTION)	Dual pane transparent glass door. Accounts for minimum moisture condensation on the door.					
Door Lock	Provided for safety and security of specimen.					
Door Open Alarm	Audio Visual Alarm.					
Power Failure Alarm	Audio Visual Alarm.					

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Refrigeration System	Hermetically sealed compressor with CFC free refrigerants.
Evaporator	Finned evaporator accounts for quick and uniform cooling.
Hold Over Time (As Per WHO Guidelines)	30 mins for temperature to rise above +6°C from +4°C.
Auto Condensate Removal	For removal of condensate water.
Castor Wheels	Fitted with Castor Wheels
Temperature Controller	Microprocessor based Digital Temperature Indicator-Cum-Controller with in-built HI/LOW Temperature deviation alarm.
Validation Port	Validation port to insert sensors for validation purposes.
Chart Recorder (Option)	7 Days circular temperature chart recorder.
Com-Port (Option)	Communication Port for logging data to your PC.
Voltage Surge Protection (Option)	Automatic/ Servo Voltage Stabilizer.
Battery Back-Up (Option)	UPS with 10-12 Hours of back up for digital temperature display.
Power Supply	Single Phase 220/230Volts AC.

### Optional:

- MOC Outer body – SS
- In built Mini printer to print temperature
- Software to interface freezer directly to computer for storing data & print
- PLC controlled equipment with touch screen colour display HMI
- Extra Cost for Chart Recorder
- Battery Back-Up Option only for digital temperature display
- Voltage Stabilizer

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