

# PLATELET INCUBATOR TC200 PLATELET AGITATOR PA200/PA300

ISO 13485   

Optimize blood care with advanced technology

Platelet Agitator/ Incubator provides a conducive environment for storage of platelets.

Designed with Thermo Electric Cooling Method

Eliminating Compressor and Refrigerant gas



“ Platelets shall be placed in storage not exceeding a period of 5 days, between 20°C to 24°C, with continuous gentle agitation of the platelet concentrates maintained throughout such storage.”

*Drugs & Cosmetics Acts and Rules*

“ A visual and audible alarm system indicates a temperature and power failure. The electronic temperature control must maintain an even temperature at 22°C +/- 0.5°C at all shelves. In a closed system the platelets can be stored at 22°C +/- 2°C with continual and gentle agitation for up to 5 days.”

*British Journal of Haematology*

“ Platelet concentrates that are stored in a blood bank for up to 5 days at 20°C - 24°C with constant gentle agitation have an almost normal post transfusion recovery and survival.”

*AABB Manual*



Started as the first Indian manufacturer of blood bags, Terumo Penpol Private Limited continues to be the market leader in India in the field of equipment and disposables for the Blood Transfusion industry. With a comprehensive range of products covering collection, processing, storage and issue of blood, Terumo Penpol continues to serve the leading blood banks in India and around the world. Terumo Penpol is now a subsidiary of the \$4.5 billion Terumo Corporation, Japan and is a group company of Terumo BCT, USA which leads the Blood Management business of Terumo.



## STORAGE EQUIPMENT

Platelet Incubator TC200, works on the principle of Peltier Effect to achieve the required temperature, eliminating compressors and the refrigerant gas, and makes the product more eco-friendly. Incubator will maintain the required Platelet storage temperatures of 20°C to 24°C throughout their interior space with specially designed thermo electric cooler

## KEY FEATURES

- Refrigeration: Thermo Electric Method. Specially designed thermo electric cooler will maintain the required temperature of Incubator eliminating compressor and refrigerant gas
- Forced air circulation to ensure temperature gradient within  $\pm 1.0^{\circ}\text{C}$ .
- Equipped with a built in Temperature Recorder and Controller Unit (records on a circular chart), which has a digital temperature sensor for temperature sensing. This does not require manual calibration
- Alarms/Indications provided for (a) COOLING MODE, (b) HEATING MODE, (c) TEMPERATURE HIGH, (d) TEMPERATURE LOW, (e) DOOR OPEN, (f) AGITATOR OFF, (g) SYSTEM OK, (h) BATTERY LOW, (i) SENSOR FAILURE, (j) POWER FAILURE.
- Alarm simulation facility to check alarm conditions.
- Transparent door
- Auto stop for agitation when the door is opened
- 2 hour battery backup for Temperature recorder and Control Unit
- LED tube for uniform lighting
- Provision to prevent unintentional switch off



Terumo Penpol sales and service engineers are located close to you for the entire duration of the life-cycle of the equipment. With over 16640 pieces of equipment installed in India and a customer base of more than 2426 clients, Terumo Penpol's reputation for friendly and round-the-clock service is widely recognized and respected.



## SPECIFICATIONS | PLATELET AGITATORS, PLATELET INCUBATORS

Platelet Incubator TC200	
Power supply	230+/-10%V, 50-60 Hz Single phase AC
Power consumption	500W(Max)
Type	Table top
Chamber temperature range	22+/-2°C
Capacity	24/48 no's of 100ml Platelet bags
Electrical Safety	Protection against electrical shock-Class I
Operation	Continuous
Agitator	PA200/PA300
Construction	Outer cabinet Powder coated HDGI Inner chamber Stainless Steel S304
Refrigeration	Thermo electric cooling method
Insulation	CFC free PU Insulation
Display	4X7 segment LED(Red)
Display Resolution	0.5°C
Temperature Recording	Recording is made on a weekly chart paper using ink type pen
Accuracy of temperature sensor	+/-0.5°C
Chart Range	0 to+40°C
Chart resolution	1°C
Light	4W LED tube
Ingress of water	IPX0
Working environment	Temperature 10 to 33°C Relative humidity 30 to 70%(No condensation)
Storing and transportation	Temperature -20 to 40°C Relative humidity 20 to 90% (No condensation)
Battery for TRCU	12V, 2.3 Ah Rechargeable SMF lead acid battery
Dimension(outer)mm*	649W X 830D X 785 H
Weight*	75 kg
Indications	System Ok(Green)(V) [V-Visual A- Audio] Cooling Mode(Blue)(V) Temperature High (Red)-A/V Temperature Low (Red)-A/V Door Open(Red)-A/V Battery Low(Yellow)-V Heating Mode(Blue)-V Agitation Off (Red)-A/V
Platelet Agitator PA200/PA300	
Power supply	230 +/- 10%VAC 50Hz
Power consumption	55W(Max)
Pause	10 +/-1sec
Fuse rating	250V, 500mA, 5 x 20mm cartridge type
Type of agitation	movement -Flat bed agitation.
Frequency of Oscillation	65 +/-7 cycles / minute
Agitating mechanism	230V AC induction motor controlled
Alarm	Audible intermittent beeps for power failure
LED indication	Indication for blown fuse
Interfaces	Agitator motion interface
Displacement	36 +/-3 mm
Classification	Protection against electrical shock: Conforms with Class I
Operation	Continuous
Standards & approvals	CE mark, EU RoHS
Manufacturing standards	ISO 9001: 2008 , EN ISO 13485 : 2012

### INCUBATOR

- Bench Top & suitable for platelet storage in blood banks
- Eyelevel positioning of TRCU for better visibility
- Powder coated sheet metal exterior
- Transparent door with toughened glass
- Compressor free
- No brazing
- Easy Manufacturability and Serviceability
- Provision to avoid Unintentional Switch off
- Less weight
- Micro Processor controlled operation and control system
- Curved door for better Aesthetics appearance

### AGITATOR

Agitation at 65 +/- 7 cycles per minute to avoid platelet clumping and to ensure maximum viability

Heavy duty imported motor

SS304 grade sliding stainless steel trays

Fuse blow out alarms

Pause switch to interrupt agitation for 10 seconds during the removal and loading of bags

Data Logger enables to record data which are easily downloadable in computer (optional)

Category	TC200
Capacity	120 Ltrs
External dimension (W x D x H) mm*	649 X 830 X 785

Category	PA200	PA300
Capacity	24 bags (4 tray)	48 Bags (8 tray)
External dimension (W x D x H) mm*	440 x 390 x 290	440 X 390 X 395

## REGISTERED OFFICE

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## OUR PRODUCT RANGE

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DUAL HEAD TUBE SEALER

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FILTERS\*

BLOOD TRANSFUSION SET\*

AUTOMATIC COMPONENT EXTRACTOR\*

STERILE CONNECTING DEVICE\*

APHERESIS SYSTEM AND KITS\*

\* Additional Products for Indian market only.  
Products from Terumo Corporation / Terumo BCT