

Terms of Reference /Technical Specification Clauses

Item Name: Platelet Agitator and Incubator

I- Specifications:

I- Specifica	
1. Purpose of Equipment	To continuously agitate platelet concentrate in an even suspension in a temperature controlled environment +22 °C \pm 2 °C in standard platelet bags (random unit or apheresis).
2. Type of Equipment	Must be designed specifically for blood bank use. Commercial or modified commercial incubators for other purpose are not acceptable. Flatbed agitator fitted inside a temperature controlled incubator that uses CFC-free refrigerant and
2. Type of Equipment	CFC free insulation material.
3. Quality Standard	Manufacturing should be compliant with ISO 13485, and/or ISO 9001:2008.
	Should be compliant with European CE Class IIA and/or US FDA
	Equipment must meet electrical safety specifications of IEC 61010-1
4. Capacity	At least 96 standard random platelet unit bags.
5. Construction	Outside C. R. (Corrosion Resistant) sheet preferably coated with bacteria resistant material
	Inside stainless steel.
	Insulation foaming agent CFC free
6. Drawers and agitator	Nonslip corrosion resistant drawers coated with bacteria resistant material
	Drawers perforated to ensure good air circulation
	The agitator holding the shelves is suspended in such a way as to ensure minimum noise for the life of the agitator.
	Gentle side to side agitation at 1.5 inch (3.6–4 cm) and 60–70 strokes/min.
	Heavy duty ball bearing gear motor for noiseless and continuous operation for 24 hours a day 365 days a year
	Auto-pause of agitator on opening door
	Shelves cannot be pulled out in error.
	Push button switch to pause agitator.
7. Door	Glass door with full visibility of units without opening door.
	Manual door lock should be available.
8. Electrical	Compatible with Input 240V 50 Hz Single phase Ac
characteristics	Equipment meets electrical safety specifications such as that of the IEC Should have an integrated voltage stabilizer or external servo stabilizer of appropriate ratings
9. Internal Temperature	Platelet agitator should have inside temperature range of 20°C - 24°C
	Whatever the load, setting accuracy less than or equal to 0.5° C (preferably 0.1° C).



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	Should ensure frost free performance thereby avoiding either freezing or heating. If defrosting
	function used, temperature should not go outside range specified above.
10.Temperature	At least 1 temperature sensor.
monitoring,	Digital temperature (LED) display with 0.1 °C graduation.
thermograph	Integrated Visual AND Audible alarm systems for temperature, motion failure, sensor failure, agitator
and related	off, power failure
alarms	
	 Can be connected to a remote monitoring system and remote alarm.
	- The temperature record should be electronically logged (that can be retrieved eg by USB port)
	- Equipped with 7-day, graphic chart recorder with supply of free charts for full period of
	warranty.
	Must have Battery backup for temperature recordings, which is especially needed during power
	failure/fluctuations.
	Additional Battery backup for alarm so that alarm will not fail in case of power failure, and should be
	able to sustain the alarm.
11. Air circulation 📕	The temperature inside should be kept uniform in all shelves by Forced air circulation through fans.

II- Train<mark>ing:</mark>

Demonstration and continued comprehensive training for lab staff and support services until familiarity with the system.

III- Documents to be delivered:

- > Calibration certificates
- ➤ Warranty
- > Installation Qualification (IQ) and Operational Qualification (OQ).
- Supplier Qualification documentation (to be completed using form provided by LRC Blood Transfusion Services "QUAL-FOR-024 Supplier Qualification Questionnaire/QMS Compliance").
- Should provide electronic and hard copies of User Manual (English), Service manual (English) and Complete construction details with respect to material specification, thickness, finish etc....

IV- Accessories required:

- Seven day temperature recorder chart for continuous temperature re-cording
- Ink stylus pens

V – Transport, installation, and setup

Assured by the company.