

TECHNICAL SPECIFICATION FOR LOW TEMPERATURE BATH WITH MAGNETIC STIRRER (Quantity – 2 nos)

General:

- Rapid cooling of liquids to low temperatures
- Ease of operation
- Compact design, small footprint to be used inside of 5 ft fume hood
- Safer and consistent than dry ice
- Leak/over current braker, independent overheat protector, self-diagnosis, refrigerator protection timer, overload relay protection circuit and float switch for safety
- In-build magnetic stirrer for the efficient stirring.

Instrument:

Working temperature range	:	-80 °C to room temperature
Temperature accuracy	:	±1 °C
Temperature control & setting	:	PID temperature controller with membrane keypad
Temperature indication	:	Digital display
Bath material and volume	:	Stainless steel and 3.5 L
Maximum container size	:	Bath should hold 300 mL flask
Refrigerator	:	continuous operation
Operating time	:	System should run continuously 7 days at -78 °C
Magnetic stirrer	:	450W
Rotation speed	:	100-800 rpm

- All standard accessories for complete operation and maintenance of the equipment shall be supplied by the vendor.
 - The instrument should be provided with 12 months warranty and Annual Maintenance contract (AMC) for two additional years.
 - Working demonstration of the equipment shall be arranged by the supplier at installed site, without any additional cost.
 - The supplier should have supplied similar instruments to IITs, IISc, IISERs or Government (State/Central) Organizations. List of organization with contact details should be provided.
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