

INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

MATERIALS MANAGEMENT DIVISION

Powai, Mumbai - 400076

Environmental Test Chamber

Technical Specifications:

The bench top and Humidity test chamber should have the following specifications:

- 1. Capacity of Test space: Maximum 34 liters
- 2. Interior material: Corrosion resistive stainless steel
- 3. Dimensions: Compact and can be kept as bench top
- 4. Required Temperature range: -40°C to +180°C
- 5. Required Humidity range: 10-98% R.H.
- 6. Humidity deviation in time: max. ±3% R.H.
- 7. Temperature deviation in time: ±0.3 to ±0.5 deg. C
- 8. Temperature ramp up rate: ca. 3-5 deg. C/min
- 9. Temperature ramp down rate: ca. 3-5 deg. C/min
- 10. PLC and/or PC controlled temperature and humidity indicator controller
- 11. The water tank must be built in for continuous operation
- 12. Leakage breaker for power supply must be provided to prevent damage to specimens.
- 13. Proper safety devices are mandatory for protection of the instrument
- 14. Both manual and programmable modes should be present with preferably touch panel display
- 15. Communication function: Both USB, Ethernet to be provided
- 16. Laptop (with state of the art configuration) along with data logging software must be provided for facilitating the monitoring of temperature & humidity chamber
- 17. Viewing window with interior light must be provided for sample monitoring.
- 18. A port should be provided on the side panel preferably with 6 numbers of electrical feed-through.
- 19. AMC for three years to be included (Free of cost).