



**INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
MATERIALS MANAGEMENT DIVISION
Powai, Mumbai 400076.**

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Technical Specification

Cooling Unit LX2 Air

1. The water chiller for the objective lens should be high precision one with a temperature stability of less than 0.05-degree Celcius.
2. The objective lens is the most crucial lens of the TEM. If the temperature of the circulating water is not maintained with the specified values, then this hampers the imaging causing image drift.
3. If the temperature variations are high then it can also cause harm to the objective lens. Furthermore, this chiller will be operational 24X7.

(The above item is a spare parts of original equipment “ FE TEM Instrument 200 KV Field Emission Gun Transmission Electron Microscope”)