



THE LAB EQUIPMENT

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## Product Name :

Film wise And Dropwise Condensation And Boiling

## Product Code :

SLE/EA/11



## Description :

- Heating and condensing takes place inside a partially filled glass vessel.
- A heater coil heats the water.
- The temperature of the wire reaches significantly higher than 100°C.
- Students watch the boiling process and note the different boiling processes.
- For boiling heat transfer experiments, students adjust the current in a resistant wire heater element in the water.

### These include:

- **Subcooled boiling:** where small bubbles form and rise.
- **Nucleate boiling:** where large bubbles form and rise.
- **Film boiling:** unstable and stable, where a vapour blanket forms and heat transfer by radiation becomes important.
- For condensing heat transfer experiments, water condenses on two water-cooled vertical cylinder specimens.
- The cooling water flow rate and its temperature change at each cylinder helps students to find the heat transfer.

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