



THE LAB EQUIPMENT

Email : [sales@thelabequipment.com](mailto:sales@thelabequipment.com)

Phone: +91-8759245890

**Product Name :**

Separating & Throttling Calorimeter with mini boiler Test Bench

**Product Code :**

SLE/MCE/59



**Website:** <https://thelabequipment.com>, **Email:** [sales@thelabequipment.com](mailto:sales@thelabequipment.com)

plot. no.296. Sector 5. Vaishali. Ghaziabad. Uttar Pradesh 201010



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## Description :

### Features:

- It is defined by the ratio of mass of vapour and total mass.
- The total mass is calculated from the sum of fluid mass and vapour mass.
- Separating and throttling calorimeters are used to determine the vapour content.
- Sensors measure the pressure and temperature before and after depressurization.
- The measuring results can be used to determine the vapour content with the h-s diagram.
- A downstream throttling calorimeter is used to determine vapour contents between  $x=0,95$  and  $x=1$ . The wet vapour is depressurized in this process.
- The remaining vapour part is depressurized and then liquefied in a water-cooled condenser and also collected in a measuring cup.
- In practice, devices to determine the vapour content are used in steam power plants, downstream of steam turbines or at steam boilers upstream of the super heater.
- The two quantities can be used to determine vapour mass and total mass to calculate the vapour content.
- If the vapour content is  $x=0$ , the evaporation medium is completely liquid,  $x=1$  means dry saturated vapour, a value in between means wet vapour with a variable liquid content.

### Specification:

- **Temperature:** 240°C
- **Pressure:** 10bar
- **Safety valve:** 10bar
- **Temperature:** 0...400°C
- **Pressure (inlet):** 0...16bar
- **Pressure (outlet):** -150...100mbar
- **Dimensions:** 800x 800 x 1700 mm
- **Weight (approx.):** 110 KG

### Power Supply:

- 230V, 50Hz, 1 phase
- 230V, 60Hz, 1 phase
- 120V, 60Hz, 1 phase

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