

Product Name :

Separating and Throttling Calorimeter With Mini Boiler Test Bench

Product Code :

EEMECH45M0073

ALTEC™**Description :**

Separating and Throttling Calorimeter With Mini Boiler Test Bench

Technical Specification :

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



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