

Product Name :
Computerized Boiling Heat Transfer Apparatus

Product Code :
HEMT0001



Description :

Computerized Boiling Heat Transfer Apparatus

Technical Specification :

The cylinder is used as a model to demonstrate a fire tube heated from the inside.
An integrated water-cooled condenser allows for a continuous boiling process.
The special liquid used evaporates at low temperatures.
Transparent process tank makes it possible to clearly observe the evaporation process at the heated cylinder.
Sensors provide all relevant data.
The measured values are indicated on digital displays and can also be transmitted directly to a PC via USB.

FEATURES:

- Experimental unit to demonstrate evaporation in a steam boiler fire tube
- Effect of temperature and pressure on the evaporation process
- Digital displays for measured values
- Processing of measured values on a PC using software
- Operation with environmentally friendly, special low-boiling liquid
- Observing different forms of evaporation (nucleate, film boiling)
- Calculation of heat transfer coefficient
- Software for data acquisition via USB through PC.

SPECIFICATION:

- Safety valve opens at 2,2bar
- Tank: 10L
- Heater :
- Power: 250W, continuously adjustable

Surface area: 0,001875m²
Cooler, copper coil :
Diameter: 80mm
Surface area: 0,0578m²
Measuring ranges :
Pressure: 0...4bar absolute
Flow rate: 0,05...1,8L/min
Temperature thermocouple: 0...200°C
Required for Operation :
230V, 50/60Hz, 1 phase, 120V, 60Hz/CSA, 1 phase
Water supply and drain

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