

THERMAL EXCHANGES-VAPORIZATION PRINCIPE UNIT



Experimental capabilities

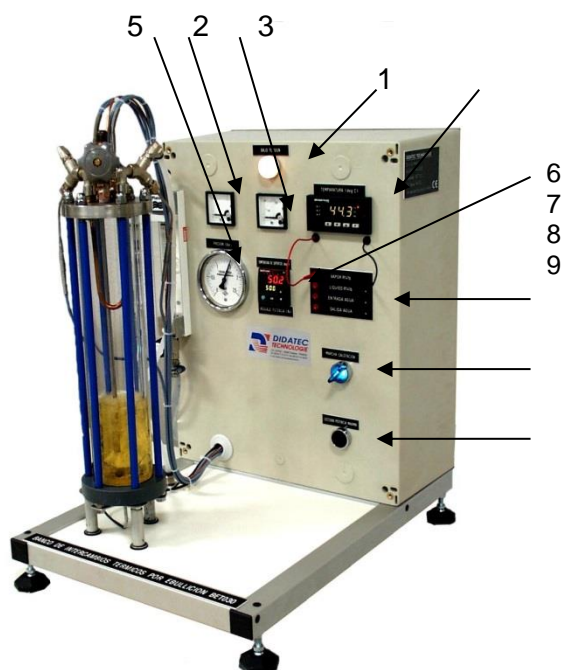
- Study of thermal exchanges:
- Convection in a copper tube
- Exchange coefficient between the copper and the water (REYNOLDS number, BRANDT and NUSSELT)
- Thermal resistance due to copper
- Coefficient of exchange between the copper and the steam
- Power balance received by the water and deduction of heat losses
- Calculation of the specific heat of the refrigerant fluid R141b
- Laminar and turbulent regime
- Vaporization phenomenon (evaporation and boiling) and condensation.

BET030



Illustrations

Technical details



1. Low voltage indicator
2. Voltmeter
3. Ammeter
4. Temperature indicator
5. Manometer
6. Power regulator
7. Temperature selection
8. Turning on the heating resistance
9. Button that allows you to read the electrical power

Erreur ! Aucune rubrique spécifiée.

Services required

Documentation

- Electrical supply : 230 Vac – 50 Hz
- Water supply : 16 L/h
- Dimensions: (LxWxH mm): 650 x 450 x 650
- weight (Kg): 40

- User's manual
- Pedagogical manual
- Technical documentation of the components
- Lab exercises
- Certificate of conformity CE

Note : if the equipment installation is operated by our staff, all supplies and exhaust connections required must stand at less than 2m from the machine

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