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Product Name :
Flow Boiling Demonstration Unit

Product Code :
LBNY-0005-10200012



Description :

The Flow Boiling Demonstration Unit is a floor-mounted unit designed to provide a visual demonstration of the flow boiling processes that can occur inside the vapour generating tubes of practical plant such as refrigeration, steam, chemical and food processing systems.

Technical Specification :

Floor mounted, vertical, glass, concentric tube heat exchanger for the observation of all stages of heat transfer as a pure substance changes from sub-cooled liquid to superheated vapour.

Experimental Capabilities:

Demonstration of a heating process accompanied by vapour formation within a tube, including

- Convective heat transfer to sub-cooled liquid
- Nucleation in sub-cooled and saturated liquid
- Circulation promoted by natural convection
- Complete dry out to superheated vapour
- Demonstration of effect of air in condensers
- Demonstration of two phase flow with increasing vapour content
- Slugging
- Droplet entrainment
- Annular Flow.



Laboratory Instrument India