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Product Name :
Heat Transfer By Convection

Product Code :
LBNY-0005-103000134



Description :

Sensors measure temperatures (upstream and downstream of the heating element and inside the Heating element), flow velocity of the air and heating power
Heat transfer in the air duct by free and forced convection
3 heating elements with different surfaces: flat plate, tube bundle or fins
Air duct with axial fan.

Technical Specification :

Technical Data:

Air duct
Height: 1m
Flow cross-section: 120x120mm
Axial fan
Power consumption: 6,5W
Nominal speed: 2900min⁻¹
Max. volumetric flow rate: 170m³/h
Max. pressure difference: 54Pa
Heating elements
Surface of fins: 1400cm²
Surface of flat plate: 140cm²
Surface of tube bundle: 980cm²
Temperature limitation: max. 150C
Max. heating power: 200W

Measuring ranges

Fow velocity: 0...10m/s

Heating power: 0...375W

Temperature: 2x 0...100C, 1x 0...200C.



Laboratory Instrument India