



Email : [sales@laboratoryinstrumentindia.com](mailto:sales@laboratoryinstrumentindia.com)

**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<sup>-1</sup>  
Max. volumetric flow rate: 170m<sup>3</sup>/h  
Max. pressure difference: 54Pa  
Heating elements  
Surface of fins: 1400cm<sup>2</sup>  
Surface of flat plate: 140cm<sup>2</sup>  
Surface of tube bundle: 980cm<sup>2</sup>  
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**