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**Product Name :**  
Heat Transfer In The Fluidised Bed

**Product Code :**  
LBNY-0005-125000136



#### **Description :**

Fluidized bed of compressed air and aluminum oxide, particle sizes either 125 $\mu$ m or 300 $\mu$ m  
Examination of the fluidized bed formation and the heat transfer in the fluidized bed.  
Steel rulers for measuring the immersion depth of the heating element and the height of the fluidized bed  
Safety valve, temperature switch at the heater, air filter at the outlet  
Glass reactor with sintered-metal plate at the inlet and air filter at the outlet.  
Glass reactor, backlit.  
Manual setting of the air flow rate via valve and flow meter.  
Heating element, submersible and with adjustable power output .  
Instrumentation: temperature sensors at heater, air inlet, in fluidized bed, pressure measurement upstream of the reactor and in the reactor (manometer, pressure sensor), flow meter for measuring the air flow rate, power output of the heating element  
Digital displays for temperatures, power output, pressure in the fluidized bed.

#### **Technical Specification :**

Glass reactor  
Capacity: 2150ml  
Operating pressure: 500mbar  
Filling volume: approx. 1000ml  
Heating element  
Power: 0...100W  
Measuring ranges  
Pressure: 2x 0...0...1600mbar

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Power: 0...200W  
Temperature: 1x 0...100°C, 2x 0...400°C  
Flow rate: 10...124 nl/min.



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