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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 μ m or 300 μ 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

Power: 0...200W

Temperature: 1x 0...100°C, 2x 0...400°C

Flow rate: 10...124 nl/min.



Laboratory Instrument India