

Product Name :
Fluidisation and Heat Transfer**Product Code :**
ELABBAT002 LAB ENGINEERING**Description :**

Fluidisation and Heat Transfer

Technical Specification :

Fluidisation and Heat Transfer Technical Description A fluidised bed is formed when a mass of particles is suspended by passing gas through them. The thermodynamic and fluid mechanical properties of the solid take on the character of a fluid. The heat transfer from a heated cylinder to the fluidised bed can be investigated using the benchtop unit. The glass measuring cylinder with background lighting enables the fluid bed and the fluidisation process to be very clearly observed. A heating element that can be lowered into the reactor enables the transfer of heat in the fluidised bed to be investigated. Temperatures are measured with sensors at the air inlet of the reactor, at the surface of the heating element and in the fluidised bed. A safety valve limits the reactor pressure. A supply of compressed air is required.

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