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Product Name : Fluidisation and Fluid Bed Heat Transfer Unit	Product Code: NLAB-EDUCATIONTVET16014
Description :	
Fluidisation and Fluid Bed Heat Transfer Unit	
Technical Specification :	
Fluidisation and Fluid B	
Application of fluidized beds is more widespread in the industry that is usually appreciated, covering such diverse fields as power generation to food processing. Fluidisation and Fluid Bed Heat Transfer Unit takes place within a transparent chamber and the range of bed material supplied can be rapidly changed. The objective of the Fluidisation and Fluid Bed Heat Transfer Unit is to investigate the gas flow through a fixed and fluidized bed and to measure the heat transfer rate and coefficients for comparison with convective heat transfer rates in the air.	tilized for student project work.
Experimental Capabilities:-	

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Measurement of air flow and pressure drop through a variety of granular materials, as packed and as fluidized beds.	
Investigation of the effect of distributor design on bad behavior.	
Observation of the behavior in a fluidized bed of a wide range of granular materials, from the onset of fluidization to entrainment.	
Investigation of the effect of:-	
Depth of immersion	
Particle size	
Superficial velocity	
Specification:-	

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Flow Meters to measure airflow through the bed.
Range 0.15 to 3.5 litres/sec.
Manometer to measure pressure drop through the bed.
Fluidised Bed designed for educational studies and using air as the fluidizing medium.
The unit incorporates a glass chamber containing the bed material and an electric heater for heat transfer studies.
High-quality glass reinforced plastic on which the following components are mounted:-
Variable Transformer to vary the heater power input.
Digital Thermometer to indicate the temperatures of heater surface, air inlet, and probe.
Resolution 10C.
Volt and Ammeter to indicate the heater power input.
Ranges 0 to 250 V and 0 to 3 A.

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Safety Features include fusing and earthing of all components and heater temperature controller.

ed Heat Transfer Unit -

## Naugralabequipments

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