

Product Name :
Fluidized Bed Heat Transfer Unit

Product Code :
ALABS-A143-039



Description :

Fluidized Bed Heat Transfer Unit

Technical Specification :

Fluidized Bed Heat Transfer Unit

The set-up is designed to demonstrate and stimulate the moisture removal by heat under forced draft action created by hot air stream and fluidization property of solid to dry.

The set-up consists of a specially designed, vertical Column. The lower conical portion of the column is filled with moist solids. The material is supported on the screen mesh held between two flanges. Air from blower passes through heating chamber to produce hot air works as the drying agent entered from lower side of the column and leave the column from top outlet removes the moisture of solids. At the top outlet of column a cyclone is provided to collect the solid particles taken out by the air stream. An arrangement is made to vary and measure the airflow rate. A digital temperature controller is used to control and measure the temperature of air stream

Experiment:

To study the fluidized bed drying

Features:

Superb Painted structure

Simple to operate & maintain

Compact & stand alone set up

Utilities Required:

Electric supply Provide 230 +/- 10 VAC, 50 Hz, single phase electric supply with proper earthing. 5A, three pin socket with switch for weighing scale, 15A, three pin socket with switch for heater

Material Saw dust @ 1Kg. Granular and free flowing solid of size 1 – 2 mm

Anemometer Air flow measurement



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