



Description

This apparatus is designed to study the basics of drying operation. The set-up consists of an insulated Stainless Steel chamber fitted with heater. Inside the chamber a tray is attached directly to an electronic weighing balance, which is fitted on the bottom, outside the chamber. Material for drying is placed in the tray and regular loss of weight is monitored. Temperature controller fitted in the set-up maintains the required temperature in the chamber.

Technical Details

- Drying Chamber : Material Stainless Steel, Size (30 x 30 x 30) cm insulated by Ceramic wool and housed in a MS Chamber. Maximum Temperature 120°C.
- Heater : Nichrome wire heater
- Weighing Balance : Digital, 0-1000gm. of ± 1 gm resolution.
- Temp. Sensor : RTD PT-100 type
- Control panel comprises of :
Digital Temp. Controller : PID Controller, 0-199.9°C
(For Drying Chamber)
With Standard make on/off switch, Mains Indicator etc.
- An ENGLISH instruction manual consisting of experimental procedures, block diagram etc. will be provided along with the Apparatus.
- The whole set-up is well designed and arranged on a rigid structure painted with industrial PU Paint.

Experimentation/Learning Objectives

- To study the drying characteristics of a solid material under batch drying condition.
- Determination of drying rate and to plot moisture lost with time under for different operating conditions.

Utilities Required

- Electricity Supply: Single Phase, 220 V AC, 50 Hz, 5-15 Amp. Combined socket with earth connection. Earth voltage should be less than 5 volts.
- Drying Solids.
- Bench area required: 1.0m x 1.0m

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.

TESCA TECHNOLOGIES PVT. LTD.

IT-2013, Ramchandrapura Industrial Area, Sitapura Extension, Jaipur-302029, Rajasthan, India.
Ph/ Fax: 91-141-2771791, 2771792; Email: info@tesca.in, tesca.technologies@gmail.com
Website: www.tesca.in