TH 610 TRAY DRYER

GENERAL DESCRIPTION

This is a basic unit for studying of tray drying by hot air.

The unit consists of a rectangular duct. Air is drawn into the duct by an axial flow fan at the front end of the duct. Fan speed is adjustable. A bank of electric heaters behind the fan raises air temperature. Behind the heater is a drying compartment with transparent access door. A rack of trays is suspended from a balance above the duct. Temperatures and humidity before and after the drying trays are measured.

Instruction manual is also included.

EXPERIMENT CAPABILITIES:

- Tray drier drying curves.
- Effect of particle size.
- Effect of air velocity.
- Effect of air temperature.

TECHNICAL DATA

- Drying section : 350 x 350 mm
- Air velocity : 0.3 – 1.8 m/s
- Heater capacity : 3 kw, variable
- Trays : 4 stainless steel.
- Tray capacity : 3 kg of solids (approx.)
- Measuring instruments
  - Digital balance : 1 ea.
  - Anemometer : 1 ea.
  - Thermo-hygrometer : 1 ea.
- Software for data display and analysis by computer (separately supplied)
- Power supply : 220 V, 1 Ph, 50 Hz. Other power supply is available on request.

OPTIONAL EQUIPMENT

. Heater power : Watt or voltage and current digital display for heater power measurement.

Net (unpacked) shipping dimensions WxLxH : 60 x 250 x 120 cm
Net weight : Approx. 240 kg

ESSOM ISO 9001
ESSOM CO., LTD. *508 Soi Taksin 22/1 Taksin Rd. Bukkalo Thonburi Bangkok 10600 Thailand*
Tel. +66 2476 0034 Fax. +66 2476 1500 E-mail : essom@essom.com,http://www.essom.com