

# Tray Dryer



Tray Drying by highly effective Hot Air Re-circulation System.

Ideal for drying of pharmaceutical powders, granules, Pigments, Food, Bakery, Electrodes, Chemical, and Plastic etc in an effective and economical way by hot air re-circulation.



## Process :

Tray dryer is an enclosed insulated chamber in which trays are placed on top of each other. Heat transfer is done by circulation of hot air by electric heaters or any other heating media. Blower fans are installed inside to ensure proper circulation and transfer of heat.

A highly effective recirculating air system is provided. The heated air is recirculated with fresh air in selected portions for optimum drying. The system is designed such that the materials at the top & bottom dry simultaneously.

## Salient Features:

- cGMP model with all product contact parts AISI 316 & non contact parts AISI 304.
- Available in 24, 48, & 96 Trays.
- Highly effective uniform air re-circulating system by low speed fan.
- Inlet air filter and damper at inlet and exhaust air damper for air flow controls.
- Control panel with Digital temperature controller and process timer controller.
- Mobile trolleys are provided which are used to load and unload the trays into the dryer.

## Optional Features:

- Heating system Electrical / Steam.
- Separate Inlet AHU with HEPA Filtration.
- Perforated tray.
- PLC with HMI.

## Safety Features:

- Automatic Temperature & Process cycle controls.
- Overload relay Protection and Emergency stop button.

## Technical Specification:

Model	DTD - 24	DTD - 48	DTD - 96
Number of Trays	24	48	96
Loading capacity	60 kg.	120 kg.	240 kg.
Blower motor HP	1	1	1 x 2 Nos.
Electrical Heating Load for 100°C	6kW	9 kW	18 kW
No. of Trolleys	Rack System	1	2
Tray Size in cm	80 X 40 X 3	80 X 40 X 3	80 X 40 X 3

## Dumra MACHINES

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