



PATEL

SCIENTIFIC INSTRUMENTS PVT LTD

ISO 9001 : 2015 & CE CERTIFIED COMPANY



TRAY DRYER

We are a well-known business organization, which facilitates its esteemed patrons with Tray Dryer. These dryers are engineered by our skilled engineers, using optimum quality raw material and allied components. Complying with international quality standards, these products are assured for their consistent performance, corrosion & abrasion resistance and longer serviceability. Moreover, before dispatching these from our premises, we test these on strict parameters.

Cabinet

Cabinet of the dryer will be of 48 Trays capacity, made from MS angle frame of double wall construction lined internally with 18 SWG and externally 18 SWG MS sheet. The cavity formed in between double wall will be properly insulated with 60 mm thick Glass wool to prevent heat losses from dryer.

Doors

Heavy duty airtight hinged doors made from 16 SWG MS sheet backed by 50 mm Glass wool on the inner side and ball catch locking arrangement together with 40 mm asbestoses gasket rope ensure very sturdy construction of the dryer.

Temperature Range

- 50°C to 150°C
- RTD 3 wire Sensor
- Accuracy +/- 1°C and Better

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Electrical Heating

The Air inside the Tray Dryer is heated by "U" tube S.S.304 air heaters each of 1 KW. The heaters are fitted on the sides of the dryer to facilitate uniform heating. Maximum temperature attained inside the dryer is 100°C and will be indicated and controlled by a Digital Temperature indicator cum controller over full range of heating load. The heaters will be inserted inside tubular pipe to prevent it from becoming RED HOT. The terminals of the heaters will be brought outside the dryer to make it safer for operations for solvent based products.

Air Circulation

Air inside the dryer is circulated by one heavy duty axial flow aluminum blower fitted on a shaft. The special design of the Blower ensures uniform air circulation so that there is uniform air current over the entire charge loaded in the Trolley inside the dryer. The working of the motor is indicated by lamps in the control panel.

Ventilator

Air Ventilators are provided the top of the both side for removing hot gas & fumes (Adjustable Type).

Racks & Trolleys

Racks are provided for trays inside the Dryer. They are of fixed type for 12 and 24 Trays Models. For 48 and 96 Trays Models. Racks are provided with wheels to slide them in and out of the Dryer. An additional M.S, trolley for Racks for outside movement can be provided on request.

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Control Panel

Pre wired control panel will be consisting of Microprocessor Digital PID Controller, Contactor for motor, over current relay, Fuses, Indicating lamp, Main isolator switch etc.

Painting

The dryer will be spray painted with two coats of high temperature resistance Aluminum paint and the outside cabinet have one coat of Red oxide backed by hammer tone finished paint.

Specifications

48 Trays Dryer - 12 KW

Tray Size (Aluminum)

32" x 16" x 11/4"

Size	Tray	Rating
430 x 840 x 650mm	8 Trays	3.0 KW
430 x 840 x 910mm	12 Trays	4.0 KW
910 x 840 x 910mm	24 Trays	6.0 KW
960 x 1270 x 1450mm	48 Trays	12.0 KW
960 x 1700 x 1700mm	96 Trays	24.0 KW

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