

TRAY DRYER



APS manufactures tray driers for drying of thermal sensitive materials which get easily resolved, polymerized or deteriorated under higher temperature. It offers no contamination due to closed arrangement inside drier. It is well accepted for economical drying of granules, powder, food material & chemicals.

A highly effective recirculating air system is provided in the Tray Dryers. The heated air, is recirculated with fresh air in selected proportions for optimum drying. The system is designed so that the materials at the top & the bottom dry simultaneously. Uniform air circulation, controlled temperature, sturdy construction and large working space are the valuables of the oven which is suitably designed to cover wide temperature range.

SPECIAL FEATURES

1. Microprocessor based ergonomic controller for temperature setting and other parameters.(HMI+PLC based controller as an option).
2. Dryer Chamber with Vapor Extraction system & Heating Arrangement
3. Simple calibration and auto-tuning function
4. LCD/LED display (0.1°C resolution) and touch-sensitive keypad
5. Corrosion-resistant interior and exterior.
6. Audio visual alarm for malfunctioning, over temperature, power failure etc
7. RS 232/485 interface. (optional)
8. Universal Digital Data Recorder system(optional)
9. USB ports for PC connectivity (optional)
10. Built-in timer and touch-button controls allows quick and simple temperature setting.
11. Temperature chart recorder/printer for printing graphs(optional)

CONSTRUCTION DETAILS

1. APS Tray Dryers are double walled convection heated and cooled units. Outer body are constructed out of thick PCRC, pre coated corrosion resistant GI sheet duly pre-treated with primers and rust proofing and painted with long lasting stove enamel or elegantly powder coated. The inner construction is of stainless steel sheet of SS-304 grade). The gap between the walls is filled high grade mineral glass wool, which ensures maximum thermal efficiency in our ovens.
2. **Temperature control:** - The temperature up to 200°C is maintained in the oven which is controlled by nanotechnology based microprocessor controller (HMI+PLC as an option).
Air circulation: Triple walled back of unit is fitted with circulation fans for maintaining temperature uniformly throughout the ovens.

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Features of Coaxial Circulation Fan:- Vacuum impregnated stator winding with dr. back varnish under red baktol. Non-hygroscopic. Best IR value. Bright bar (EN - 8 class) shaft. Bush bearing of branded companies. Surge comparison testing in fans and pumps eliminates into turn short circulating of the stator. Pressure die-casted-rotor manufactured with zero error. Boats of high accuracy.

Temperature chart recorder/printer for printing graphs(optional) :- These self-contained, easy-to-use recorders provide a permanent record of temperatures, using a precise, spiral-wound bi-metallic strip transducer. All models include an on/off switch, locking door and built-in slot for an optional tie-down cable and lock. All include one "AA" battery, pen, starter box of 60 charts and manual. All come standard with one-point NIST traceable Certificate of Calibration.

- Heating:-** Indirect heating system is provided in our units, comprising of air heaters made of high grade Kanthal/Nichrome wires of suitable wattage. The warm air is evenly distributed throughout the oven through efficient motor fans ensuring very good temperature sensitivity.

TECHNICAL SPECIFICATIONS

Working sizes	Power	Tray
900 x 600 x 600 mm	6.0 KW	12
900 x 900 x 900 mm	7.0 KW	18
1200 x 900 x 900 mm	7.0 KW	24
1500 x 900 x 900 mm	10.0 KW	30
1800 x 900 x 600 mm	10.0 KW	36
1800 x 900 x 900 mm	18.0 KW	48
2400 x 900 x 900 mm	24.0 KW	60
2400 x 1200 x 900 mm	30.0 KW	96

Customizable sizes are also available.

Temperature Range	5 deg. C above ambient to 350 deg. C
Control Accuracy	±0.5%
Display	LCD/LED
Temperature Sensor	PT-100
Controller	Nano technology based ergonomic controller
Interior Construction	Stainless Steel
Nominal power	1250 -2500 W
Nominal voltage	230 V
Frequency	50/ 60 Hz

