

ALCOCK AIR - OVEN



Model : ALCOCK-Lab-AiO-007

These Air Circulation Ovens are very rugged and sturdy, suitable for Industrial operations. Outside body is made of suitable Gauge of MS fitted on angle iron frame . Inside Chamber is made of SS Sheets and of dimension 350 mm X 350mm X350mm. Heating Elements made of Nichrome and housed in tubes will be on two side walls and bottom of the chamber There will be 150mm glass wool insulation all round to minimize heat loss. Similarly door will be properly insulated with glass wool for heat insulation . 3 Nos. trays with SS trays will be provided . Outer dimension of the oven will be less than 1200mmH x1000mm D x 1000mmW

The oven is capable of working at a maximum temperature of 400°C.

To minimise Vacuum Leakage outer body has to be made very sturdy and made of 6mm plate with suitable reinforcement to withstand vacuum pressure . Also the vacuum door will be dished end type with silicon rubber gasket to prevent vacuum leakage.

Power rating 3kW : Power Supply : 230V 50Hz

There will be a thermo- well for inserting or pulling back the thermocouple for replacement or re-calibration purpose . Another thermo- well of diameter 1 cm will be provided for inserting an external probe for verification of temperature .K type thermocouple will be provided .

Temperature will be controlled by a PID type Temperature controller with built in timer of range up to 999 minutes .Resolution of the controller 0.1'C and the uniformity of temperature will be +/- 2'C in the steady state .Three different programmes can be set in the controller for changing heating rates .

There will be a Fan driven by a ¼ hp Motor and driven by a V belt and pulley system for Forced Air Circulation within the chamber of the oven .

The oven is equipped with a control panel consisting of

Indicating Lights

Mains On/Off MCB

Fuses

PID type Microprocessor based Temperature controller for Precision Control

One safety Controller will be provided as a safeguard against Over temperature , should the main controller fails at any time

Optionally Touch Screen (HMI) Panel can be provided

Also we supplied several Ovens to different units of HAL (including one Aerodynamic Oven to HAL-Hyderabad) . Our clients List is enclosed for your kind perusal . We have supplied one similar oven to HAL Bangalore (copy of order and installation certificate enclosed for your kind perusal) . We also supplied one top open oven with automatic lifting door to NFC (See Annexure attached herewith)

Delivery : Witjin 10/12 weeks or earlier after receipt of confirmed order at this end .

