

Product Name :
Astra Scientific Hot Air Oven

Product Code :
FuelTesting0021



Description :

Astra Scientific Hot Air Oven

Technical Specification :

Utilizing forced air circulation, hot air ovens are used in laboratories to perform effect of ageing on various physical properties of any type of materials including yarns, fabrics and paper etc; in addition, these forced air convection ovens are also used for high quality drying and baking applications in the field of laboratory, medical or biomedical and pharmaceutical and textile industries, where fast heat up and consistent temperature are prime requisite. Often known as hot air circulating ovens, these units are fitted with blower or fan inside in order to distribute hot air (warm air) in every corner of the inner chamber. Physical properties of materials are analyzed before and after ageing in order to find out their suitability for specific applications.

Our hot air oven systems offer continuous temperature up to 250°C and feature safe operation; allowing operators to worry-free perform their tests. Standard models of our hot air ovens are available from 22 liters to 300 liters volume; however, we can design and manufacture hot air ovens meeting customer provided temperature range, sizes and capacities. There are various optional accessories that our company can add on extra cost in order to make your working more comfortable. Under economical price, our hot air ovens deliver superior quality drying

facilities.

Features:

Up to 250°C temperature Temperature safety as per DIN 12880 Class 3.1

Precise and even heat distribution Noise-less fan

Safe for operator and samples Double walled construction

Removable stainless steel shelves Digital temperature controller

Over heat and over current protection Forced air circulation

Ventilation of gases Imported heating element

Temperature:

All hot air ovens provide temperature range 5°C above ambient to 250°C with accuracy of $\pm 2^\circ\text{C}$. Temperature is controlled with mechanical temperature control (rotary knob) or by digital control (PID controller). For uniform rotation of heat inside the chamber noise-less fan is used for air circulation.

Construction:

Each hot air oven is produced with double walled construction and made of 304 grades stainless steel with insulation of mineral wool for efficient thermal loss. In economical models, exterior chamber is made of powder coated MS, while 304 stainless steel is used as an option. Inner chamber is completely made of stainless steel, which is easy to clean and maintain. Shelves are made of painted steel and can be easily adjusted inside the chamber with ribs created inside the interior chamber walls.

Doors:

Doors are double walled, made of MS steel (stainless steel optional) and also fully insulated with mineral wool, fitted on heavy hinges. Sturdy handle provides comfortable opening and closing. Doors open 180° in order to provide enough access to the heating chamber.

Heating Elements:

For efficient heating, our hot air ovens are fitted with branded heating elements, nickel / chrome plated nichrome wire, kept inside the beads and placed at the bottom and both sides of the chamber.

Ventilation:

For safe removal of hot gases and fumes air ventilators are provided near the top of the both sides.

Safety Features:

For safe operation of hot air oven, several safety instruments are fitted; automatic circuit breaker turns off the unit in case of over temperature and other short circuits. Audio and visual alarms can be fitted as option, alert the user if temperature goes beyond the selection.



Astra Scientific

www.astrascientific.com, **Email:** info@astrascientific.com

Address: K-88, 20th Street, Annanagar, Chennai, India – 600040 **Phone:** +91-8860605265