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SHAMBOO SCIENTIFIC GLASS WORKS

AN ISO 9001: 2015 CERTIFIED Co.

Manufacturers & Exporters of: *Educational Science Equipments * Laboratory Glassware *
Laboratory Equipments*Fiber Optic Cables *Surgical Instruments *Hospital Appliances
*Veterinary Instruments Etc.

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HOT AIR OVEN



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 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.

Temperature:

All units 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 the unit, 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.

HOT AIR OVEN DIMENSIONS

MODEL NO	INNER CHAMBER SIZE	CAPACITY LTR	LOAD (KW)	SHELVES (NOS)
SSE-12/A	300 x 300 x 300 mm	30	1.5	2
SSE-12/B	355 x 355 x 355 mm	45	1.5	2
SSE-12/C	455 x 455 x 455 mm	95	2.0	2
SSE-12/D	455 x 455 x 605 mm	125	2.2	3
SSE-12/E	605 x 605 x 605 mm	224	2.5	3
SSE-12/F	605 x 455 x 910 mm	252	2.5	3
SSE-12/G	605 x 605 x 910 mm	336	3.0	3
SSE-12/G	900 x 900 x 900 mm	480	3.5	3

HOT AIR OVEN SPECIFICATIONS

Temperature Range	5°C above ambient to 250°C maximum
Temperature Accuracy	+ / - 2°C
Temperature Uniformity	+ / - 1°C
Controls	PID Controller
Temp Display	LED Display
Sensor	PT-100
Heating Element	Nichrome wire / Kanthal A1
Safety device	Over temperature protection Electric leakage breaker
Exterior Chamber	MS powder coated
Interior Chamber	304 stainless steel
Insulation	Mineral Wool
Doors	Solid doors w/ silicone rubber gasket & lock
Shelves	2 – 3 Stainless steel shelves (Removable)
Air Circulation	Forced air circulation
Power Supply	220 Volts
Optional	<ul style="list-style-type: none"> - Dot Matrix Printer interface - Temperature chart recorder - PLC Controller - Stainless steel outer cabinet - Audio / visual alarm - IQ, OQ, PQ and DQ documentation - Extra shelves - Heating Thermostat - NABL Certification - Manufacturer calibration certificate