

# Hot Air Oven

Model No: ATI-111



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OBROMAX Hot air ovens are electrical devices which use dry heat to sterilize. They were originally developed by Pasteur. They can be operated from 50 to 250°C, using a thermostat to control temperature. An air circulating fan helps in uniform distribution of the heat. The capacities of these ovens vary depending on customer's requirement. Power supply needs may also vary from country to country, depending on the voltage and frequency (hertz) used.

### Applications:

These are widely used to sterilize articles that can withstand high temperatures and not get burnt easily, like glassware and powders. It is used for sterilization of the following materials:

- Dry glass materials like test tubes, Petri dishes, flasks, pipettes, syringes etc
- Instruments like forceps, scalpels, throat swabs, etc.
- Sealed materials which can withstand heat and when penetration of steam is not possible.

### Features :

- Maximum temperature 250°C (can be customized)
- Easy clean powder coated body
- Thermostat control for set temperature
- Toughened glass doors
- Fan circulation
- Energy Efficient
- robust construction
- Low maintenance
- Reliable

### Construction:-

- Inner chamber is made up of high grade stainless steel SS-304 (SS-316 is optional)
- Outer chamber is made up of epoxy coated mild steel (SS-304 is optional)
- Tray is also supplied to make the shelves inside the chamber.
- Glass Wool Insulation: reduces heat losses in cabinet for better sensitivity and economical operations with minimal impact on the environment.
- Forced air circulation in the chamber by a blower ensures uniform temperature and humidity inside the chamber.
- Door: is provided with magnetic door closer and its outer body is made of powder coated MS and inner is made of SS-304.

**Heating:** is done with ISI marked strip type heaters placed around the inner chamber. The warm air is evenly distributed throughout the chamber through efficient motor fans ensuring very good temperature sensitivity

**Heating Elements:** on three sides

**Cooling:** We use energy efficient ISI marked high end CFC free compressors conforming to latest international standards and guidelines.

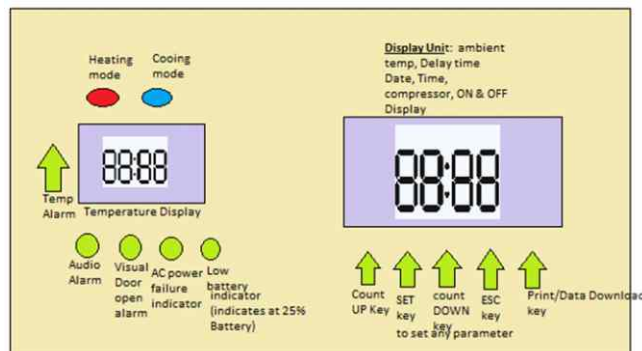
**Temperature Control:** The temperature inside our chambers is controlled through programmable micro-processor based temperature controller cum indicator.

**Temperature Range:** ambient to 250 degree Celsius

**Temperature Sensitivity:** Temperature inside our environmental chambers is controlled with a sensitivity of + 0.5°C or better.

**Air Circulation:** circulated by ISI mark silicon winded motors which are connected to balanced blowers.

### Microcontroller Based Control Panel



### Technical Specifications

<b>Construction</b>	Inner	SS-304
	Outer	Powder coated MS
	Door	Inner SS-304 and outer MS
<b>Temperature</b>	Range	Ambient to 250 degree C
	Deviation	+ 0.5 degree C
	Readability	+ 0.5 degree C
<b>Shelves</b>	Number	2
	Dimension	According to inner size of cabinet
	Maximum load	20 kg
Controller	PID controller	
Display	LED	
Serial Data Port	RS 232	
Power consumption	230 V, 50 Hz	
Castors	Lockable	
<b>Optional Accessories</b>		
Timer	1-999 hours	
Insp. window	In door	
LCD display	2 * 24 character display	
Adj. alarm limits	Visual and acoustic	
Real time program		

### Working chamber

300 X 300 X300	355 x 355 x 355
455 x 455 x 455	455 x 455 x 605
605 x 455 x 910	605 x 605 x 910

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