Vacuum Oven

(Rectangular)

Model No. ATI-114

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Vacuum oven is designed to perform drying process under vacuum condition. The vacuum oven is used to eliminate surface reactions (condensation or oxidation) on the parts inside the oven. For determining the drying process, it is necessary to define the chamber size, vacuum pump size and level of desired vacuum, and time to achieve this desired vacuum level.

Applications:

- Rectangular Vacuum Oven is used for drying process under vacuum and standard atmospheric conditions.
- Vacuum Ovens also prevent surface reactions such as oxidation, decontaminating of samples .
- Vacuum Oven enables drying treatment at lower temperature.

It is used in Various Process:

- Pre heating process
- Conditioning
- Electronic Turn
- Stability testing
- Moisture Determination
- Planting
- Drying of paper /Textile/Rubber
- Aging Test

Construction:

Inner Chamber: Inner Chamber is constructed with Thick stainless steel 304

Outer Chamber: Outer Chamber of vacuum Oven Is made from mild steel sheet pre greased, pretreated and powder coated for rust proofing.

Door: Door has a thick tempered toughen glass window perfectly sealed with silicon rubber gasket for observation without disturbing thermal condition. Proper door alignment to ensure excellent vacuum performance & operate safety secure door latch and continuous silicon gasket on vacuum chamber provide a tight seal & maintain a vacuum leak rate of less than 1 Hg. per 24 hour period.

Insulation: There is 75mm glass wool insulation between the chambers to prevent heat loss.

Heaters: ISI marked heaters fitted at 3 sides

Temperature Controller: Digital temp indicator cum controller helps in controlling the temperature.

Temperature range: ambient to 250 degree C

Maximum Vacuum: up to 760 mm of mercury, Digital Vacuum Indicator with LED Display

Resolution: 1 mm Hg

Accuracy: ± 1 mm Hg

Temperature resistant: toughened glass observation window on the door

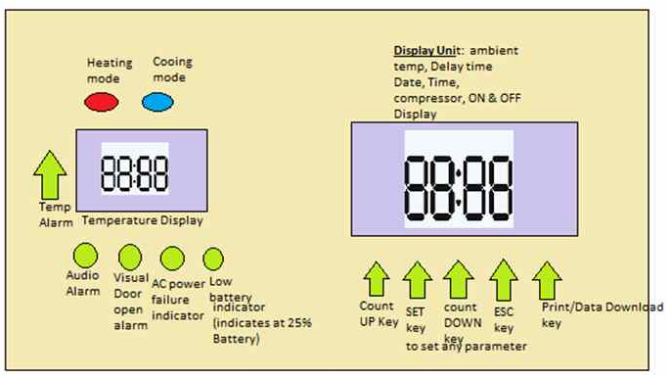
Vacuum gauge: with vacuum release valve and nozzle

Electrically operated: 230 V/50Hz AC

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

Vacuum gauge: with release valve & nozzle with maximum pressure 750mm Hg

Microcontroller Based Control Panel



Technical Specifications

Construction	Inner	SS-304
	Outer	Powder coated MS
	Door	Inner SS-304 and outer MS
	Window	Temp. resistant toughened glass observation window on the door
Temperature	Range	Ambient to 250 degree C
	Deviation	+ 0.5 degree C
	Readability	+ 0.5 degree C
	Sensor	PT-100
Shelves	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
Maximum Pressure		760mm of mercury
Castors		Lockable
Dim. (Inner chamber)		350*350*500 mm
Optional Accessories		
Timer		1-999 hours
Inspection window		In door
LCD display		2 * 24 character display
Adjustable alarm limits		Visual and acoustic
Real time program		

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