

## General Information

Manufacturer	Osworld Scientific Equipments Pvt. Ltd, Mumbai, India
Product	Autoclave Steam Sterilizer
Brand	Osworld
HSN code	84192010
Model	OAT G - Microprocessor based digital display
Type	Vertical, top opening, complete assembled unit, plug to start.
Application	For sterilization in microbiology laboratory.
Certification / Registration	ISO 9001 : 2015 audited by BVQI GST: 27AABCO0610N1ZK SME: 27221200666 IEC : 0308048806 Calibration: ERTL Certificate

## Technical Specifications

Construction	Double wall design has single chamber for steam and water. Inner chamber is of 2 mm thickness and is made of stainless steel; outer cover is also made of stainless steel. Lid and flange are made of thick stainless steel.
Temperature control	Microprocessor based digital display.
Operation	Fully automatic cycle begins at the press of start button.
Air purging cycle	Initial automatic air exhaust cycle helps create partial vacuum in the chamber. A solenoid valve vents out air during the process of steam generation. At a preset temperature the valve automatically shuts and there after steam pressure builds up.
Sterile time period	An inbuilt timer which is operator programmable can be adjusted as per sterilization load requirement. This timer operates the moment the required sterilization temperature and pressure is achieved and precisely maintains the required time.
Cycle end steam exhaust	Once sterile time period is complete the steam is automatically exhausted.
Temperature / resolution	: 121°C / 0.1°C
Temperature accuracy	: +0.5°C
Temperature sensor	PT100 RTD type Class 'A'
Temperature Display	LCD back lit display
Pressure range	15 to 17 PSI
Pressure display	Dial gauge
Pressure resolution	1 PSI
Foot lifting	Arrangement included for size: 18"x 24", 18" x 30" & 22" x 30"
Heating	U' Shaped Nichrome wire heater in SS sheathing
Feet	Castor wheels.
Electrical	230V / 15A / 50 Hz.

## Safety Features

Temperature	Safety high temperature cut off. Included if ordered separately
Pressure	Safety high pressure release valve
Electrical	Circuit Breaker

## Calibration & Validation Documents

Calibration	Temperature sensor probe calibrated with traceability to ERTL Temperature controller calibrated with traceability to ERTL
Validation Documents	IQ, OQ and PQ documentation and protocols shall be provided with equipment.

## Utilities / Preinstallation Requirement

Power supply	3 pin socket, 15Amps, 230 Volts AC 50 Hz.
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## Ordering Information With Price

MODEL	Internal Size in cms Dia x Ht	External Size W x D x H cms	Capacity Liters	Power KW
OAT G - 35	30 x 50	52 x 45 x 69	35	2
OAT G - 52	35 x 55	64 x 53 x 114	52	3
OAT G - 95	45 x 60	74 x 76 x 122	95	4
OAT G - 125	45 x 75	74 x 76 x 132	125	4
OAT G - 175	55 x 75	81 x 86 x 132	175	6
*** Please confirm room door size (for equipment entry) and ceiling height				

## Optional Accessories Applicable

Sr. No.	Descriptions
1	Basket made of thick SS Wire mesh rods. i) For Size 12"dia x 20"ht & 14" dia x 22"ht. ii) For Size : 18"dia x 24"ht, 18"dia x 30"ht. iii) For Size: 22"dia x 30"ht (set of 2 sizes shall be provided).
2	Digital High Temp. Safety Controller Cum Indicator, which can be set 2°C above the set temperature for safety and will cut-off the heater with audio-visual alarm.
3	Printer Interface facility to record data of 1 temp. and 1 pressure location within the chamber, can print date, time, temperature, pressure when connected to EPSON LX 300 Dot Matrix Printer (Not supplied with printer). i) With Fo printing
4	Digital High Temp. Safety Controller Cum Indicator, which can be set 2°C above the set temperature for safety and will cut-off the heater with audio-visual alarm.
5	TEMPERATURE MAPPING Performance Qualification with temperature mapping on site. Temperature mapping consist of consist of totally six cycles. Three cycles to demonstrate the uniformity of temperature within empty chamber, and the other three cycles in loaded chamber condition. This is done to demonstrate that temperature distribution in the loaded chamber is acceptable and that the items within the chamber receive a uniform heat treatment. Data is collected in printed format from up to six different points within the chamber. Temperature uniformity is considered acceptable if the deviation is $\pm 1^{\circ}\text{C}$ of set sterilization temperature.