

General Information**HOT AIR OVEN**

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| Manufacturer | Osworld Scientific Equipments Pvt. Ltd, Mumbai, India |
| Product | Hot Air Oven |
| Brand | OSWORLD |
| HSN code | 85141000 |
| Model | OOG |
| Type | Vertical, front opening, complete assembled unit, plug to start. |
| Certification / Registration | ISO 9001 : 2015 audited by BVQI GST: 27AABCO0610N1ZK SME: 27221200666 IEC : 0308048806 Calibration: ERTL Certificate |

Key Specifications

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| Temperature range | Ambient +5°C to 250°C |
| Temperature accuracy / uniformity | ± 0.5°C/ ± 1°C at 100°C, ± 1.5°C at 150°C, ± 2°C at 200°C. |

Technical Specifications

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| Construction | Double wall design for precise temperature control and excellent uniformity. For GMP Model Working chamber and outer chamber made of stainless steel 304 grade matt finish. With IQ, OQ and PQ documentation. For Standard Model Working chamber made of SS 304 grade and Outer cabinet made of mild steel powder coated. |
| Temperature Control | Microprocessor based PID control. |
| Heating | U' Shaped Nichrome wire heater in SS sheathing |
| Temperature sensor | PT100 RTD Class 'A'. |
| Temperature sensor accuracy | ± 0.25°C |
| Temperature Display | Digital LED 3½ digit. |
| Insulation | Rock wool |
| Air circulation | Flange motor with impeller. |
| Shelf | SS wire mesh heavy duty. |
| Electrical | 230V / 15A / 50 Hz. |

Safety Features

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| Temperature | High temperature safety cut off. |
| Electrical | Short circuit protection |

Calibration & Validation Documents

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| 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. |

Osworld Scientific Equipments Pvt. Ltd.

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Utilities / Preinstallation Requirement

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| Power supply | 3 pin socket, 15Amps, 230 Volts AC 50 Hz. |
| Computer requirements (if software ordered) | Windows-compatible computer with a standard keyboard, a pointer input (i.e., a mouse, trackpad, or touchscreen). Microsoft "SQL 2012 free version to be provided by customer." Microsoft Windows 10 or above. RAM 8 GB, Hard disk – 500 GB. Processor: Intel i3 or higher. Com port for communication. Acrobat reader (to view PDF files). Ethernet / LAN Connectivity. |
| Internet connectivity | For remote access through Team Viewer / Any Desk. |

Ordering Information with price

| Internal Size W x D x H cm | External Size W x D x H cm | Capacity Liters | Power | Shelves | Standard Model No | GMP Model No |
|-------------------------------|-------------------------------|--------------------|-------|---------|----------------------|-----------------|
| 35 x 35 x 35 | 55 x 60 x 85 | 42 | 1500 | 2 | OOG S 42 | OOG G 42 |
| 45 x 45 x 45 | 65 x 70 x 95 | 90 | 2000 | 2 | OOG S 90 | OOG G 90 |
| 45 x 45 x 60 | 70 x 70 x 105 | 120 | 2000 | 3 | OOG S 120 | OOG G 120 |
| 60 x 60 x 60 | 90 x 85 x 110 | 215 | 2500 | 3 | OOG S 215 | OOG G 215 |
| 60 x 60 x 90 | 90 x 85 x 135 | 320 | 3000 | 3 | OOG S 320 | OOG G 320 |
| 60 x 60 x 125 | 90 x 85 x 170 | 450 | 3000 | 4 | OOG S 450 | OOG G 450 |
| 60 x 80 x 125 | 90 x 141 x 170 | 600 | 3000 | 5 | OOG S 600 | OOG G 600 |
| 80 x 80 x 125 | 96 x 141 x 170 | 800 | 3000 | 5 | OOG S 800 | OOG G 800 |
| 80 x 100 x 125 | 96 x 161 x 170 | 1000 | 3000 | 5 | OOG S 1000 | OOG G 1000 |

* Please confirm room door size (for equipment entry) and ceiling height

Optional accessories applicable

| Sr. No. | Descriptions |
|---------|---|
| 1 | Data Storage Device (DSD). LED display. Data-logging: (OSLOG- DSD- LCD). LCD 16 x 2 cm yellow display. Password protected with memory for data storage. Printer connectivity through RS 485 communication. PC connectivity through MODBUS protocol. RTC / date / month settable. Log interval selectable. Print period to and from selectable. Printer Interface facility to 24 column or EPSON 80 Col dot matrix Printer only. (Printer not included in price but optional). |
| 1a | OS / SOFTLOG / V20.1. Regular software with 21 CFR Part 11 features. For details refer to Annexure I. |
| 2 | Digital Timer of 999 minutes with auto heater cut-off for timed cycle. |
| 3 | High temperature safety cut-off with audio/visual alarm. |
| 4 | Temperature mapping on site consisting of any one 4 hours' cycle, of either loaded or unloaded chamber, at any one temperature process condition will be performed. This is done to demonstrate the uniformity of temperature within the chamber is acceptable and that the samples within the chamber receive a uniform temperature condition. Data is collected in printed format from up to eight different points (i.e., eight temperature points) within the chamber. Temperature uniformity is considered acceptable if the deviation is less $\pm 1^{\circ}\text{C}$ of set temperature. Note: Every OSWORLD Oven is validated prior to dispatch at the factory. Those customers who do not require on site mapping may request FREE copy of factory mapping cycle data sheet. |

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Optional accessories detail

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| a) Data Storage Device (DSD) | LED display. Data-logging: (OSLOG- DSD- LCD). LCD 16 x 2 cm. yellow display. Password protected with memory for data storage. Printer connectivity through RS 485 communication. PC connectivity through MODBUS protocol. RTC / date / month settable. Log interval selectable. Print period to and from selectable. Printer Interface facility to 24 column or EPSON 80 Col dot matrix Printer only. (Printer not included in price but optional). |
|------------------------------|---|

a i) Software - OS SOFTLOG V20.1 Regular

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| a i) OS SOFT Data Logging Software. With 21 CFR Part 11 compliant | Database on SQL Microsoft, free version. (SQL download in customer scope). "WHO DID WHAT, WHEN". Multiple Level Passwords. Multi user level / group passwords (Administrator, Super user, Guest) System access to authorized personnel. Each user has individual account. Minimum password length / Auto log out facility. Password expiry. USB Communication with PC. Every menu entered is prompted for password and purpose. Mean Kinetic Temp. (MKT). Date and time stamp Audit Trail. Report, Trends, Graphical user Interface. Report of Alarm condition in alarm report, Remark in Alarm. Electronic Signature. Unique user ID's and individual passwords. Secure data with backup & restore facility. Real time and historical trends for analysis. Export to PDF for printout. Software compatible to Windows 10 and above. |
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| Caution! | This licence software is available with SOFT KEY, once installed on a PC system, it cannot be transferred on to another PC. After installation for any reason the PC is changed then a new licence will have to be purchased. (Applicable for both software). |
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