

Experiment With The Truth



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Proposed factory:

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BOD Incubator/Cooling Incubator



BOD Incubator/Cooling Incubator

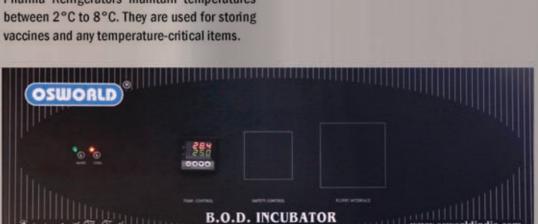
BOD INCUBATOR

A BOD incubator is an incubator designed to maintain a temperature of 20°C that is necessary to perform a test called Biochemical Oxygen Demand (BOD). It involves incubating samples saturated with oxygen at 20°C for (usually) five days.

Cooling Incubator is a device used to grow and maintain microbiological cultures or cell cultures at temperatures between 2°C to 8°C. The incubator maintains optimal temperature, and is used to culture both bacterial as well as eukaryotic cells.

PHARMA REFRIGERATORS

Pharma Refrigerators maintain temperatures





Pharma Refrigerator

Pharma Refrigerator



ACCESSORIES

OSLOG Data Storage Device (Oslog-DSD)

OSLOG software with 21 CFR Part 11 features

Wireless Module-Connect OSLOG DSD to PC without cables

GSM Module—Deviation alarm mobile alert through SMS to 5 mobile numbers

Temperature control—PLC based

Magnetic door lock facility

Stand-by refrigeration system

PLC for auto change over to stand-by systems

Data logger 4 point temperature

Pharma Refrigerator osword

FEATURES

Components

Chamber Stainless steel mirror-polished chamber with rounded corners that offer ssuperior air flow and assists cleaning

Temperature sensor: Swiss make PT 100 RTD class 'A' sensor

Temperature: Standard model comes with digital PID controller which is CE certified

PLC control: Effective control along with latest touch screen technology with aesthetically appealing HMI display

OSLOG DSD: Meet ICH and GMP regulatory requirements by recording data of chamber conditions against time. Internal memory helps save data up to 5000 readings

Refrigeration compressor. Hermetically-sealed Copeland-make compressors utilizing R134a CFC-free refrigerant

Over temperature: Protect samples by preventing untoward rise in temperature

internal glass door. Samples can be easily viewed from outside without disturbing internal conditions

Access port for external sensor: Multiple sensors can be inserted through port while conducting mapping cycles

Interior lighting: View samples readily as interior lighting switches on automatically when door opens

RS 485 Interface: Connect to PC and manage data with the 21 CFR compliant software (option). (Refer to page 108)

Handle: Elegant German handle with firm snap

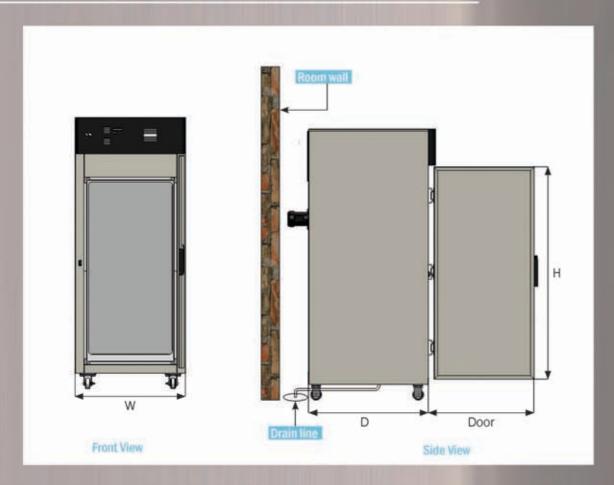
Hinges: Aesthetic German hinge, door sways conveniently

Gasket Silicon food grade

Shelves: Stainless steel wire shelf designed to maximize air flow

Castor wheels: For easy mobility; conveniently shift equipment and place at desired location

Cooling Incubator



SAFETY FEATURES

- High temperature cut-off
- Compressor thermal cut-off
- Electrical short circuit breaker

ALARMS

High/low temperatur



Cooling Incubator

Technical Specs

Construction	Double wall with door having locking arrangement and inner glass viewing door
Temperature range	For BOD Incubator: 5.0 °C to 60.0 °C For Cooling Incubator: 2.0 °C to 8.0 °C For Pharma Refrigerator: 2.0 °C to 8.0 °C
Temperature resolution	0.1 °C
Temperature accuracy	±0.2°C
Temperature uniformity	±1°C
Temperature Control	Microprocessor-based PID Control/PLC control option
Temperature sensor	PT100 RTD type Class 'A', Made in Switzerland
Temperature sensor accuracy	± 0.25 °C
Cooling	CFC-free Copeland-make compressor utilizing R 134A eco-friendly refrigerant, with condenser, motor, relay
Heating	'U' Shaped Nichrome Wire heater in SS Sheathing
Air circulation	Flange motor with impeller/blower
Insulation	Poly Urethane Foam (PUF)
Chamber illumination	Fluorescent light with door switch
Trays	Heavy-duty SS wire mesh
Feet	Castorwheels
Electrical	230V / 15A / 50 Hz

Ordering Information

Model	Internal Size	E×temal Size	Capacity		Shelves	Weight	Shipping weight	Power	
	W×D×Hcm	W×D×Hcm	Cu. ft.	Litres		Kg	Kg	VAC, Hz	Amps
OCI 4	45 × 45 × 60	60 × 70 × 110	4	120	2	104	150	230,50	10
OCI 8	60 × 60 × 60	75 × 83 × 110	8	200	2	130	190	230,50	10
OCI 12	60 × 60 × 90	75 × 83 × 140	12	324	3	158	244	230,50	12
OCI 16	60 × 60 × 125	75 × 83 × 175	16	450	4	220	340	230,50	12
OCI 21	60 × 80 × 125	75 × 103 × 180	21	600	5	236	384	230,50	17
OCI 28	80 × 80 × 125	95 × 103 × 180	28	800	5	315	512	230,50	20
OCI 34	80 × 80 × 155	95 × 103 × 210	34	1000	5	394	640	230,50	20



Walk-in Cooling Incubator

Walk-in Cooling Incubator



SAFETY FEATURES

High temperature cut-off Compressor thermal cut-off Electrical short circuit breaker

ALARMS

High/low temperature

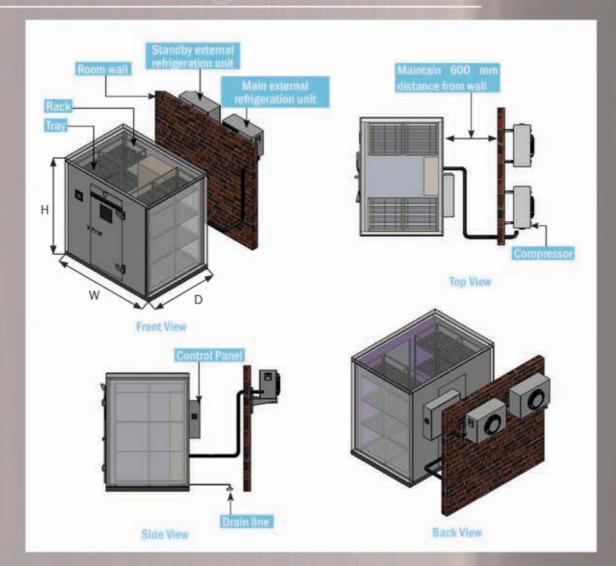


Walk-in Cooling Incubator

Osworld Cooling Incubators are designed to serve a wide array of requirements, more specifically to conduct life cycle testing, shelf life studies, general incubation and refrigerated storage. These Cooling Incubators guarantee extremely accurate temperature regulation and uniform temperature distribution.

A Walk-In Cooling Incubator is generally built and erected on site. The room size in which it is to be installed is measured and, depending on the available area and the internal chamber volume desired by the user, Osworld will suggest a suitable size that can fit in the room.

Walk-in Cooling Incubator



ACCESSORIES

- OSLOG Data Storage Device (Oslog-DSD)
- OSLOG software with 21 CFR Part 11 feature
- Wireless Module—connect OSLOG DSD to PC without cable
- GSM Module. Deviation alarm mobile alert through SMS to 5 mobile number
- Temperature Control—PLC based
- Magnetic door lock facility
- Stand-by refrigeration system
- PLC for auto changeover to stand-by systems
- Data logger 8 point temperature



Walk-in Cooling Incubator

Technical Specs

Construction	Double wall with door having locking arrangement and inner glass viewing door
Temperature range	2.0 °C to 8.0 °C OR 5.0 °C to 60.0 °C
Temperature resolution	0.1 °C
Temperature accuracy	±0.2° C
Temperature uniformity	±1°C
Temperature Control	Microprocessor-based PID Control. Or PLC control option
Temperature sensor	PT100 RTD type Class 'A', Made in Switzerland
Temperature sensor accuracy	± 0.25 °C
Cooling	CFC-free Copeland-make compressor utilizing R 134A eco-friendly refrigerant, with condenser, motor, relay
Heating	'U' Shaped Nichrome Wire heater in SS Sheathing
Air circulation	Flange motor with impeller/blower
Insulation	Poly Urethane Foam (PUF)
Chamber illumination	Fluorescent light with door switch
Trays	Heavy-duty SS wire mesh
Feet	Castor wheels
Electrical	230V/15A/50 Hz

Ordering Information

Model	Internal Size	External Size	Capacity	Shelves	Weight	Volume packed	Shipping weight	Power	
	W × D × H cm	W×D×H mm	Litres		Kg	Cbm	Kg	VAC, Hz	Amps
OWIC	2000 × 1250 × 2000	2160 × 1510 × 2160	5000	16	104	5	500	230,50	12
OWIC	2000 × 2000 × 2000	2160 × 2160 × 2160	8000	24	130	8	600	230,50	12
OWIC	2000 × 2500 × 2500	2160 × 2960 × 2660	12000	36	158	13	800	230,50	16

Larger sizes available on request

A suitable size for your application can be designed given particular room dimensions



Deep Freezer





Deep Freezer

Osworld Deep Freezer is suitable for medical and scientific applications (ex. reagents, biologicals, pharmaceuticals and other commonly used laboratory materials). These Deep Freezers provide energy efficient,

convenient, safe and reliable performance for optimal storage temperature environments necessary for a wide range of life science, pharmacy, biological, medical, clinical and industrial applications.

A C C E S S O R I E S

OSLOG Data Storage Device (Oslog—DSD)
OSLOG software with 21 CFR Part 11 features
Data logger 4 point temperature

Deep Freezer



SAFETY FEATURES

- High temperature cut-off
- Compressor thermal cut-of
- Flectrical short-circuit breaks

ALARMS

High/low temperature

UTILITIES

Room temperature around machine preferably at 25° C with air-conditioning or a well-ventilated room with exhaust fan. However, surrounding temperature should

not exceed 30° C
Stabilized Input Voltage of 230V AC 20
Amps. Use of Servo-controlled Stabilizer is recommended



Deep Freezer

Technical Specs

Construction	Double wall with door having locking arrangement and inner glass viewing door			
Temperature range	-20°C/ -30°C / -40°C			
Accuracy/Uniformity	±2°C/±2°C			
Temperature Display	Digital LED 3½ digit			
Temperature Sensor	PT-100			
Control type	Microprocessor-based PID Control with Auto Tune CE Marked			
Resolution	1°C			
Cooling	CFC-free Copeland-make compressor utilizing R 134A eco-friendly refrigerant, with condenser, motor, relay			
Air circulation	Flange motor with impeller/blower			
Feet	Castor wheels			
Trays	Heavy-duty SS wire mesh			
Electrical	230V / 15A / 50 Hz			

Ordering Information

Model	Internal Size	External Size	Capacit	Capacity		Weight	Shpgwt	Power	
	W×D×Hcm	W×D×Hcm	Cu. ft.	Litres		Kg	Kg	VAC,Hz	Amps
ODF 4	45 × 45 × 60	65 × 114 × 130	4	120	2	104	150	230,50	10
ODF8	60 × 60 × 60	79 × 121 × 130	8	200	2	130	190	230,50	10
ODF 12	60 × 60 × 90	79 × 121 × 165	12	324	3	158	244	230,50	12
0DF 16	60 × 60 × 125	79 × 121 × 199	16	450	4	220	340	230,50	12
0DF 21	60 × 80 × 125	76 × 141 × 217	21	600	5	236	384	230,50	17

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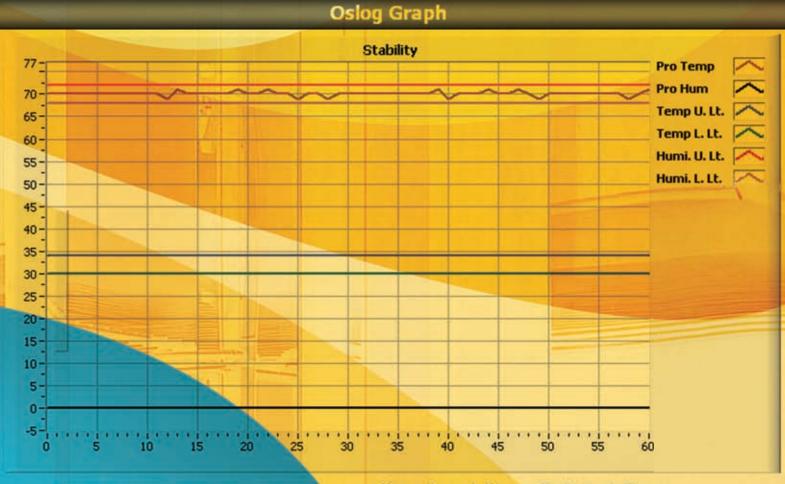
Equipment Make Godrey E ent Name From Date & Tone 01/04/2010 00:00 01/04/2010 2.159

Temp Limits Humidity Limits ± 10 Prepared By osworld Print Date & Time : 01/04/2010 17:49

	_		Equip	ment Id tosh	g2	
4			STABIL	Donatale		
DATE:	UVIE		Pro Temp(°C)		Pro Hum(%)	Remark
01/0/11/10	01		25.3		70	
01/04/2010	11,02	30.0	24.9	60.0	69	
OMOTO MADE	11:03		25.8		70	
01/04/2/10	11.04		24.5	80.0	69	
OTHER DESIGNATION	1705		25.1		69	
01A	11-16		25,3		7.0	
01/04/28 (0	11.0		25.0		69	
01/25000	11-18		25.3		71	
0 IANTITATIO	1,09		24.5		70	
01/01/2010	11110		25.0	100,0	70:	
J10	11:11		25.7		70	
01/04/2010	11:12		25.7		70	
01/04/2010	11:13		25,8		70	
01/04/2010	11.14		24.2	300.0	70	
01/04/2010	11:15	30.0	24.9	500.0	70	

IEA





From Date & Time 00:00

01/04/10

To Date & Time

23:59 01/04/10 Graph Update

Temp Set Value Hum Set Value 30 25.4





21 CFR Part 11 Compliant Software

- Mean Kinetic Temperature (MKT), Audit Trail, Graphs, Tabular reports.
- Multiple user passwords
- Minimum, Maximum & Average value at the end of each report.
- Separate alarm report.
- Print/Scan frequency programmable (1 to 240 mins).
- Internal software logging every 1.5 seconds.
- Data acquisition, monitor & control (for PLC based).
- Password protection (Min 3 levels).
- Automatic acknowledgement within specified time with an alarm, log provided readings are logged for that particular alarm.
- Door opening/closing log (Magnetic log with passwords)

Numeric as well as graphical report (common/individual)

- Roles & privileges for user, operator and administrator
- Electronic signature
- Scanner graph
- Current reading configurable (single/multiple) by user
- Channel-wise scanner alarm report
- Print frequency programmable through software
- Page length programmable
- Controller setting programmable
- Alarm logging with times (Actual high/low readings)

OSLOG Data Acquisition System Software

1. Login Screen



2. Security

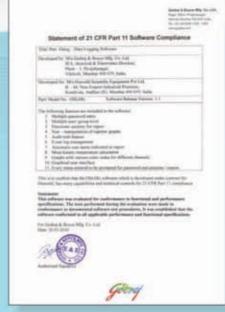


3. Log Report



4. Log graph





OSWORLD

OSLOG Data Storage Device (Oslog-DSD)



Online and Offline mode. When online, it also logs data onto a pen drive.

- In offline mode, it stores data in USB pen drive. Pen drive can later be taken to PC and data downloaded using Oslog software.
- In online mode, data is continuously

updated on to the PC. For retrieval of data in PC, Oslog—DSD will be connected to PC through RS232 serial port. Oslog software will scan each equipment (every 5 seconds) connected to Oslog—DSD and will store data into database file in the hard drive of the PC.

- Data logging Interval 1 to 240 minutes.
- Pen drive detection and error or USB device full indication.
- At one time max 5 nos. Oslog DSDs and 5 nos. Oscans (Datalogger) can be connected to one single Oslog Software.
- Data Stored in USB Pen drive in ASCII FAT 32 format non manipulative.
- 2 Line, 16 characters LCD display with membrane keypad.
- Oslog—DSD can be placed on front panel of equipment next to the PC for convenience.
- Extremely user-friendly and easy to operate.
- Developed exclusively for Osworld by India's reputed brand M/s Godrej & Boyce Mfg. Co. Ltd., Mumbai.

GSM Module and Internet Connectivity...

 GSM connectivity: Connect any Osworld equipment to a GSM mobile. The equipment sends deviation alarm of temperature/humidity high/low alarm to 5 designated mobile numbers. To avoid disturbing, spurious/false alarms like door open events from not being sent, the software is programmed to send only deviations which are continuous and need to be attended.

The GSM connectivity is made applicable through our exclusive tie-up with India's most reputed brand, Godrej. Osworld has an exclusive tie-up with Godrej for hardware interfacing and software.

Osworld Equipment software connectivity: There are multiple ways to connect Osworld equipments to the Oslog PC software. A) Online connectivity using Universal Modbus Protocol: In this scenario the Osworld equipment is connected to the PC directly using RS485 Universal Modbus protocol. Multiple Osworld equipments are looped once again using RS485 and finally connected to the PC. The equipment data is downloaded in microseconds with in-built software alarm triggers to notify break in connectivity.

This scenario is most widely used in one-on-one connectivity or connecting a few equipments in loop which are located in one room.

B) Ethernet connectivity: Equipments located in multiple rooms in one factory can be monitored/controlled from a single server using the Ethernet connectivity software module. The different computer nodes can be connected to

GSM module



Keeps track of temperature and humidity Alerts user via SMS on high/low temperature and humidity Connects up to five mobiles

the equipment using Cat-5 or Cat-6 cables with RJ45 connectors. The Oslog Ethernet software allows maximum 32 nos. Osworld equipment to be connected to ONE computer node in a LAN (Local Area Network) environment.

In a multiple node LAN network where multiple Osworld equipment are connected to multiple nodes, the Oslog software permits 'Unlimited Osworld Equipment to be connected to the server. Currently, the Oslog software is programmed for a Windows platform client-server set-up.

C) Internet Connectivity: A step forward is the connectivity of Osworld equipment to the Internet using the client's IP address. Osworld equipment can be viewed from anywhere in the world using Osworld dedicated Oslog Internet software. Osworld permits its clients to use Osworld web space to monitor their equipment data anytime/anywhere in the world. LIVE Equipment Data or backdated data from the main server of the equipment can be accessed and retrieved.

- 3) Mobile Connectivity: Osworld provides mobility feature by offering the Osworld Mobile Application on Android handphones for people on the go and who need to keep tabs on the equipment functioning constantly due to important media placed in it. Also view earlier data on the mobile by logging into the mainframe server.
- 4) Wireless Module: Connect any Osworld equipment wireless (without cables) at 1Km distance line of sight to the PC. Exact data download can be defined as per (from/to... date/time) convenience.







Validation

IQ, OQ, PQ documentation compliant to FDA, GLP and GMP requirement.

Developed for Osworld by Premier Validation Ltd, Europe's leading validation consultants. Their extensive and unparalleled experience in addition to the necessary regulatory knowledge has ensured that all critical parameters are considered.

Installation and Operation Qualification

This Installation and Operation Qualification is designed to validate that the Osworld Stability Chamber is installed correctly and operates according to the functional specifications and the client-user-requirement specifications. For this purpose, a number of predefined verifications and tests will be executed. Successful completion of this protocol will prove that the Osworld Stability Chamber installation was successful and that it operates according to the functional specifications and the client-user-requirement specification.

Performance Qualification

This Performance Qualification is designed to validate that the Osword Stability Chamber performs according to the functional specifications and the client-user-requirement specifications. For this purpose, a temperature and relative humidity mapping of locations distributed across the working area of the Stability Chamber is executed, using data loggers to measure the local temperatures and relative humidity.

The testing method is based on the principles defined in the French standard NF X15-140. The testing methodology is intended for temperature and humidity-controlled units, located in a controlled environment, with a constant temperature (at one or more set points). Osworld will execute the protocols, analyze and interpret the data collected, resolve any deviations noted during the execution and prepare final Validation report.

Calibration

All measuring devices such as temperature controllers, humidity controllers along with sensors are calibrated prior to use. The quality management system approved calibration plan is implemented by highly skilled personnel.

Sensors are calibrated against master instruments which are calibrated at ERTL which is accredited to NABL, India.

NABL, India, is the signatory of Multilateral Recognition Arrangement (MLA) of International Accreditation Forum (IAF) Inc. The NABL accredited certificates issued by STQC Services are valid worldwide.



Clients: India

Alembic Pharmaceuticals Ltd.	Hetero Drugs					
Alkem Laboratories Ltd.	Hindustan Unilever Ltd.					
Aurobindo Pharma Ltd.	Incozen Pharmaceuticals					
Bharat Biotech Ltd.	Pvt. Ltd.					
Cadila Healthcare Ltd.	Indoco Remedies Ltd.					
Cipla Ltd.	Ipca laboratories Ltd.					
Concept Pharmaceuticals Ltd.	Jubilant Biosys Ltd.					
Dr. Reddy's Laboratories Ltd.	Macleod Pharmaceuticals Ltd. Maneesh Pharmaceuticals Ltd. Manipal Academy of Higher Education Merck Specialities Pvt. Ltd.					
Dr. Sabharwal's Wound Care						
E.I.Dupoint Ltd.						
Epsilon Laboratories Ltd.						
Fresenius Kabi Oncology Ltd.	MSN Laboratories Ltd.					
Glaxo Smithkline Ltd.	Mylax Laboratories Ltd.					
Glenmark Pharmaceuticals Ltd.	Nicholas Piramal Ltd.					
GVK Biosciences Ltd.	Orchid Chemicals &					
Haffkine Pharmaceuticals Ltd.	Pharmaceuticals Ltd.					

OSWORLD

Pharmasolve Specialities India Pvt. Ltd.	Sun Pharmaceuticals Industries Ltd.		
Pfizer Ltd.	Themis Meidicare Ltd.		
Piramal Healthcare Ltd.	Torrent Pharmaceuticals Ltd.		
Ranbaxy Laboratories Ltd.	Unichem Laboratories Ltd.		
Raptakos Brett & Company Ltd.	US Vitamin Ltd.		
RCC Laboratories	Unilever Industries (P) Ltd.		
Reliance Life Sciences Pvt. Ltd.	Vasudha Pharma Chem Ltd.		
Richter Themis Ltd.	Vet India Pharmaceuticals		
S. Kant Healthcare Ltd.	Virchow Biotech Ltd.		
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Sanzyme Ltd.	Wochardt Ltd.		
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Stanex Drugs and Chemicals			

Pvt. Ltd.



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Global Presence

