

## General Information

Manufacturer	Osworld Scientific Equipments Pvt. Ltd, Mumbai, India
Product	Walk In Cold Room
Brand	Osworld
HSN code	84198960
Models	OWICI-Advanced-Touch Screen-PLC (description refer to Annex. II).
Type	Unit assembled at site, available in knock-down conditions.
Application	Stability study meets ICH guidelines and USFDA requirements .
Certification / Registration	ISO 9001 : 2015 audited by BVQI GST: 27AABCO0610N1ZK SME: 27221200666 IEC : 0308048806 Calibration: ERTL Certificate

## Product Highlights

Parts	Brand, COO	Salient Features
Stainless steel	Jindal, India.	LAN Connectivity.
Touch screen display (HMI)	Beiger, Sweden.	Ethernet communication.
Program logic control (PLC)	Mitsubishi, Japan.	SQL Database.
Temperature sensor	IST, Switzerland.	Licensed Software. SMS Alert, MKT, Audit Trail, Alarm Log.

## Key Specifications

Temperature range / resolution	: +2.0°C to +8.0°C / 0.1°C
Temperature accuracy / uniformity	: ±0.2°C / ±1°C

## Technical Specifications

Construction	Modular type construction of PUF Panels and assembled on-site. Working chamber made of Stainless steel 304 grade matt finish. Outer cabinet made of stainless steel 304 grade matt finish.
Door	Insulated door having lock and key arrangement and a viewing glass for sample view. View glass window dimension is 300 x 450mm Height.
PLC control. (for description refer to Annexure II)	7" HMI colour touch screen display. Data storage of 1000 / 1500 readings in FIFO mode. Password protected user management entries. Tamper proof non-editable audit trail. Set value programmable with date and time. When PC is connected data can be downloaded defining exact period.
Cooling	CFC Free Copeland (USA) make compressor with R 134A / R 22 eco friendly refrigerant, with condenser, motor, relay complete unit.
Steam Injection	Steam generator bath with reservoir made of thick stainless steel with heater, water inlet control, low water level safeguard and insulation
Heating	U' Shaped Nichrome wire heater in SS sheathing
Temperature sensor	PT100 RTD Class 'A'.
Air circulation	Flange motor with impeller.
Insulation	Poly Urethane Foam (PUF).
Chamber illumination	Fluorescent light with door switch for auto on/off.
Electrical	Single phase 230V / 50 Hz OR Three Phase 440 volts AC.

## Safety Features

Temperature	High temperature safety cut off.
Compressor	Electrical overload cutoff relay for compressor. Time delay for compressor start.
Electrical	Short circuit protection

## Calibration & Validation Documents

Calibration	Temperature sensor probe calibrated with traceability to ERTL Temperature controller calibrated with traceability to ERTL
Validation Documents	Installation Qualification (IQ), Operational Qualification (OQ) and Performance Qualification (PQ) documentation and protocols shall be provided with the equipment.

## Utilities / Preinstallation Requirement

Power supply	Single phase 230V / 50 Hz OR Three Phase 440 volts AC.
Drain	Water drain line with ½" nozzle to be provided at floor level.
Room Temperature	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.
Computer requirements	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. Windows 7 or above. RAM 8 GB, Hard disk – 500 GB. Microsoft office 7 or higher (Professional is recommended) 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

Model	Internal Size W x D x H mm	External Size W x D x H mm	Capacity Liters	No. of Shelves	Shelf Size mm	No. of Racks
OWICI	2000 x 1000 x 2000	2160 x 1160 x 2160	4000	16	500 x 430	4
OWICI	2000 x 1250 x 2000	2160 x 1410 x 2160	5000	16	500 x 560	4
OWICI	2000 x 1500 x 2000	2160 x 1660 x 2160	6000	16	650 x 500	4
OWICI	2000 x 2000 x 2000	2160 x 2160 x 2160	8000	24	500 x 620	6
OWICI	2000 x 2500 x 2000	2160 x 2660 x 2160	10000	24	570 x 780	6
OWICI	2200 x 2730 x 2000	2360 x 2890 x 2160	12000	24	600 x 850	6
OWICI	2500 x 3000 x 2000	2660 x 3160 x 2160	15000	24	750 x 950	6
OWICI	2770 x 3250 x 2000	2930 x 3410 x 2160	18000	32	890 x 760	8

**Optional accessories applicable for Advanced Model**

Sr. No.	Descriptions
1	OS / SOFTLOG / V10.1 / Advanced software with 21 CFR Part 11 features For details refer to Annexure II.
2	Multipoint Data scanner cum logger: With 4 temperature sensors placed at specific points in chamber.
3	Standby Refrigeration system with PLC for autochangeover.
4	GSM Module: Mobile alert through SMS, deviation alarms to 5 mobile nos. Sim card in customer scope.
5	Door access security system – PIN type + Finger Printing.
6	Temperature mapping on site consisting of 24 hours cycle, of loaded and unloaded chamber, at any one condition. Data is collected from eight different points within the chamber. <b>Note:</b> After validation is completed, validation report / certificate along with validation sticker shall be provided.

**Description - Model Configuration**

**Annexure II**

**Model - OWICI Advanced**

Touch screen 7” HMI display cum logger	Make Beiger – Sweden Beiger electronics is a fast growing Swedish company with extensive experience of industrial automation and data communication. Since its start up in 1981, Beiger Electronics has evolved in to a multinational group present in 22 countries and sales of 1,376 MSEK 2013. The company is listed on the NASDAQ OMX Nordic Stockholm Small Cap list.
PLC (Program Logic Control)	Make: Mitsubishi – Japan Mitsubishi is a well known brand and global leader in Electric & Electronic equipment for Industrial use. It has operations in 40 countries, more than 1,20,000 employees and consolidated net sales of more than US\$ 38 billion
Temperature control	Touch screen 7” HMI display cum logger, make Beiger, Sweden PLC make Mitsubishi, Japan.
HMI features	HMI is 21 CFR compliant. User management functionalities Password protected user account. Multiple user level as per user rights Audit Trail + Alarm log. (reflects in the SCADA as well) Tamperproof and non-editable audit trail data format Time stamped records of parameter changes with user name Audit trail records user creation, login / logout attempts, old and new value of parameter change. Electronic record and storage. Review of the reports on the HMI screen for Process data, Alarms and Audit Trail