# ORBITEK®

Range of Bio-equipment

SCIGENICS BIOTECH
PRIVATE LIMITED

# INCUBATOR
## CATALOGUE

www.scigenicsbiotech.com

## ABOUT US

(SCIBIO) was set up in 1997, as a pioneering venture to address the instrumentation needs of Life Sciences and Biotechnology scientists in India. Over the years and several thousand shakers and other lab products , our brand **ORBITEK®** is trusted and occupies the pride of place in innumerous leading labs across the country, thanks to the company's unequivocal emphasis on quality all through. ISO 9001-2015 certified, SCIBIO's products are CE certified to comply with international safety norms. Today SCIBIO has presence in Europe, Japan, Malaysia, Thailand etc.

## ORBITEK® - INCAUBATORS

ORBITEK® Incubators (INC) and Cooling (BOD) Incubators (CINC) are rugged, low maintenance Temperature Controlled Static Incubators that are used for various research & Industrial applications like Bacterial or Tissue Culturing, BOD Determinations, Fermentation or Yeast Studies, Plants & Insect Studies and many several applications.

ORBITEK® CINC
Part No:.CINC - 200L

ORBITEK® CINC
Part No:.CINC - 350L

# SALIENT FEATURES

- Manufactured with cold rolled (powder coated) mild steel exterior and high quality SS 304 grade interior, ensuring resistance to abrasions.
- Robust construction with minimal foot print and noiseless operation.
- Finned tubular air heater for better heat transfer.
- Fibre glass wool insulation ensures stable maintenance of temperature irrespective of atmospheric condition.
- ORBITEK® INC / CINC features microprocessor based PID temperature controller with Auto tuning facility.
- Display screen shows both, actual and set values of the parameters.

ORBITEK® CINC Part No:.CINC - 100L

- Programmable controller with circuit with Incremental Decremental Temperature control of 0.1°C.
- Excellent temperature uniformity inside the chamber through forced air convection via 2 fans.
- Distributed Air Handling System (DAHS) incorporated for better temperature distribution and heating up time of less than 45 min from standard ambient to 37°C.
- Polished perforated SS shelves for better air circulation.
- Rounded edges and corners for easy cleaning in OR BITEK® INC variants
- Double glazed viewing window & one LED lamp for easy visibility of samples without opening of the door.
- Door with EPDM Magnetic gasket for sealing.
- Low energy consumption and Hermetically Sealed CFC free refrigeration system.
- Capable of holding detachable mini shaker. OR-BITEK® L Mini–SS-D.

# HMI (H) Variants

Powerful Program Logic Control (PLC) systems provides highly precise & expandable PID control system for working parameters

- Multiple steps programmable controls (User Selectable) automatically changes parameters at timed intervals.
- Sensitive Touch Screen operation for temperature and other parameters.
- Large LCD Touch Screen (Screen Color selectable) has Human Machine Interface for user friendly operations.
- RS485/USB/Ethernet ports available for Data logging/ any external BuildingManagement Software (BMS) / external conventional lab management software.

# SAFETY FEATURES

1. Deviation alarm for Temperature(Audio/Visual)
2. Chamber high temperature warning for operator safety, when door is open.
3. Provided with Residual Current Circuit Breaker (RCCB) for user Safety.
4. Thermostat cut – off for temperature over shoot.

| Model Part No | ORBITEK® INC 100 | ORBITEK® INC 200 | ORBITEK® INC 350 |
|---|---|---|---|
| Capacity | 100 Ltrs. | 200 Ltrs. | 350 Ltrs. |
| Temperature Range[1,3] | Ambient +5°C to 60°C | | |
| Temperature Accuracy[1,2] | ±0.1° C | | |
| Interior Dimensions (WxDxH) (mm) | 500 x 490 x 425 | 515 x 500 x 795 | 720 x 510 x 1000 |
| Exterior Dimensions (WxDxH) (mm | 570 x 690 x 600 | 621 x 800 x 130 | 826 x 823 x 1764 |
| Net Weight (Kg) | 80 | 170 | 200 |
| Power | | 230V,6 Amps, 50 Hz, 1Φ | |

| Model Part No | ORBITEK® INC 100 | ORBITEK® INC 200 | ORBITEK® INC 350 |
|---|---|---|---|
| Capacity | 100 Ltrs. | 200 Ltrs. | 350 Ltrs. |
| Temperature Range | 5°C to 60°C | | |
| Temperature Sensor | PT100 | | |
| Temperature Accuracy[1,2] | ±0.1° C in 37°C to 60°C<br>±0.3° C in 25°C to 36.9°C<br>±0.5° C in 5°C to 24.9°C | | |
| Interior Dimensions (WxDxH) | 500 x 490 x 425 mm | 515 x 500 x 795 mm | 720 x 510 x 1000 mm |
| Exterior Dimensions(WxDxH) | 570 x 690 x 600 mm | 621 x 800 x 1305 mm | 826 x 823 x 1764 mm |
| Net Weight (Kg) | 98 | 190 | 220 |
| Power | 230V,16 Amps, 50 Hz, 1Φ | | |

| | COMMON GENERAL FEATURES | | |
|---|---|---|---|
| MOC4 | Interior: SS 304 and Exterior: MS Powder coated steel | | |
| Temperature Controller | Microprocessor based PID controller or PLC based PID controller (for HMI Variants) | | |
| Temperature Change via | Soft Touch Keypad or Touch Screen (for HMI Variants) | | |
| Temperature Display | Digital LED or Colour LCD (for HMI Variants) | | |
| Maximum No. of Shelf | 2 3 | 3 5 | 3 5 |
| Photosynthetic Light Bank | Optional (Fluorescent / LED) | | |
| UV-C lamp for decontamination/UV-B lamp/ Timer / Gas Purging manifold/ Access port for monitoring | Optional | | |

Notes:
1. Temperature uniformity +1°C
2. At an standard ambient < 28.0°C
3. Temperature recovery time is 10 minutes when door is open Less than Square 2 minutes
5. Photosynthetic light bank (illumination) with timer LED/Fluorescent lamp is available as optional accessories. (Temperature range will be 15-60°C)

Specifications/Model/Part Nos. are subjected to change without notice.

4. SS316 interior / Stainless Steel Exterior Options Available StandardPermissible ambient conditions: 10°C to 35°C at 20% to 80% humidity Variants with extended temperature up to 80°C or customized INC / CINC options are available upon request. Other Optional Accessories like inner glass/acrylic door, door lock, power failure alarm, moisture proof electrical outlet within the chamber, suitable stabilizer, data logging etc. available.

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