



Multi Chamber Incubator CT37stax



PLANER
PRESERVE / PROTECT / NURTURE



Introducing our Multi Chamber Benchtop Incubator

Planer is dedicated to using years of expertise and experience in environmental temperature control and the management of cells to develop and manufacture pioneering, high quality laboratory equipment assisting clinicians, scientists and biologists to preserve, protect and nurture many different cell types.

The CT37stax multi chamber benchtop incubator has been designed using the best features of the existing technology and incorporating these with a mix of innovative new features to provide a state of art new multi chamber benchtop incubator fit for the demands of the modern laboratory.

Cost Effective Solutions

Providing The Optimal Environment

Incubator Management Made Easy

Protection Built In

Improved Workflow

Cost Effective Solution

Modular and space saving



3 Chambers



4 Chambers



5 Chambers



6 Chambers

- Uses 30% less lab space
- Capacity for up to 72 petri dishes
- Capacity for up to 36 patients
- Individually controlled chambers

The innovative space saving design of the CT37stax incubator provides the highest dish capacity of any benchtop incubator currently available whilst needing 30% less space in a laboratory.

The CT37stax incubator is available, preassembled, in 3, 4, 5 and 6 incubation chamber versions so you can purchase a single incubator that meets the needs of your specific laboratory ensuring you are not buying redundant dish space.

Additional incubation chambers can be purchased and added to the base station you already have, enabling the laboratory's capacity to grow without the need to purchase an expensive new incubator.

The CT37stax requires premixed CO₂/O₂ gas to provide the optimum conditions inside the chamber for cellular development. This gas is readily available with full validation, removing the need for time consuming validation tests of the gas mixer, saving both time and money for the laboratory.

Each individual chamber of the CT37stax can be controlled independently therefore when chambers are not in use they can be switched off, saving gas and reducing the power required to run the unit resulting in a cost saving for the laboratory.

Providing the Optimal Environment

See what's inside

- Temperature Range Ambient + 5 °C to 40 °C
- Temperature Control Accuracy ± 0.1 °C
- Temperature Uniformity ± 0.2 °C
- CO₂ Range 2.0 – 10.0 %

The CT37stax multi chamber incubator incorporates advanced environmental control technology to ensure an optimal environment reducing the stress on cells and maximising the potential for success.

The CT37stax incubator's highly accurate environmental regulation system ensures optimal clinical conditions inside each incubation chamber. Each of these chambers is independently controlled to minimise the stress placed on the cell.

Each incubation chamber can be humidified using the optional water tray insert to provide passive humidity and help prevent cell dehydration.

Using readily available and certified premixed gas ensures that each chamber can be supplied with the correct mix of CO₂ and O₂ without the need for time consuming validation checks.

The small size of the incubation chambers of the CT37stax ensures faster recovery times after lid openings.

The petri dish is placed directly onto the base plate of the incubation chamber to provide the best possible heat transfer between the dish and the heated base; this eliminates variations in heat transfer that can be caused by any air gaps when inserts are placed between the base and dish.

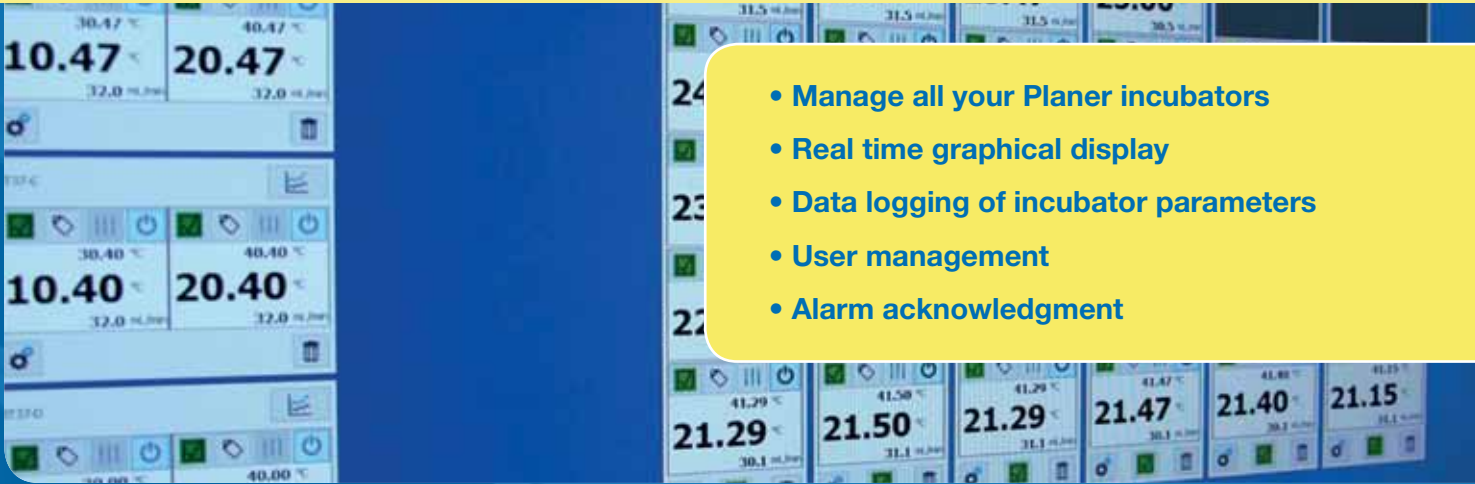


Optimal Environment for Cell Development



Incubator Management Made Easy

With our management software



- Manage all your Planer incubators
- Real time graphical display
- Data logging of incubator parameters
- User management
- Alarm acknowledgment

The CT37stax is supplied with the Planer Incubator Management Software (PIMS) which operates as both the full control interface for multiple CT37stax incubators but also can be used as a management system for all Planer incubators (INC-A20, BT37 and CT37stax) operated within the laboratory.

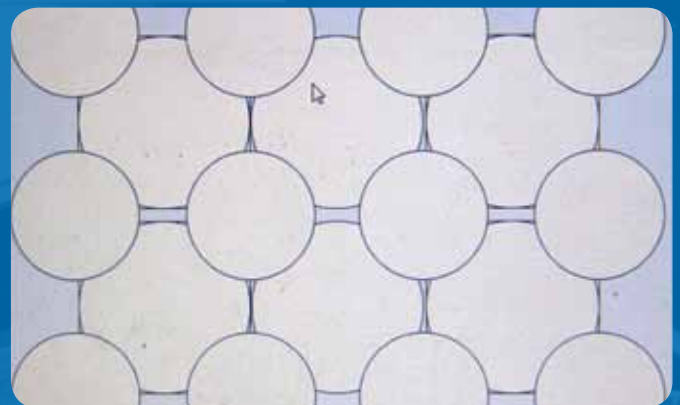
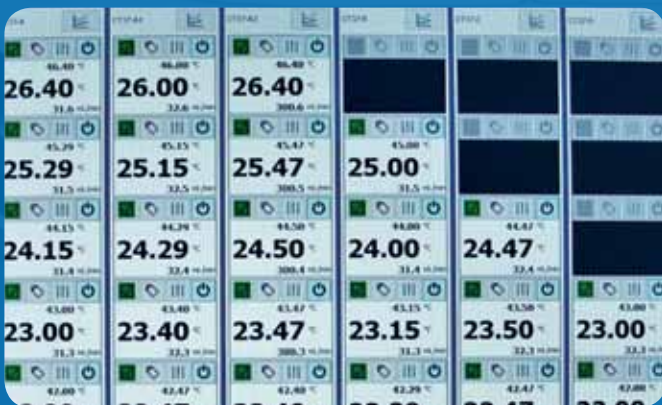
The intuitive and user friendly interface allows full control of multiple CT37stax units from a single PC anywhere in the laboratory.

A user, once logged into the password protected system, can switch individual incubation

chambers on or off, adjust the temperature and view the performance of each chamber on a convenient real-time graphical display.

The PIMS system will alert users via the PC of any out of range alarm conditions triggered by the CT37stax incubator and allows users to acknowledge and silence alarms giving them time to visit the incubator to correct the alarm condition.

The PIMS system is fully password protected and will log actions taken by each authorised user.



Electronic location information for each sample can be recorded via PIMS application to assist users to easily locate specific samples and ensure they are returned back to the same location.

Multi Chamber
Benchtop
Incubator
CT37stax





Providing the Optimum
Environment to Maximise Success

Protection Built In

Alarms and monitoring

- **Comprehensive on board alarms**
- **Dual power supply protection option**
- **External alarm connection**
- **Access for truly independent monitoring**

The CT37stax incubator is packed with comprehensive alarm and monitoring features. Multiple parameters of each incubation chamber are constantly monitored with audible and visual alarms, locally on the incubator and via the PIMS application, alerting users to any issues.

The CT37stax incubator can be supplied with dual external power supplies ensuring the incubator will continue to operate should one fail, reducing the risk of samples being lost. Optional in-built CO₂ monitoring can be provided for each incubation chamber further ensuring that the environment within each incubation chamber is kept at optimal conditions.

Contacts are provided for connection to an external alarm and monitoring system adding the ability to receive alerts, via SMS or voice messages, of any alarm conditions even when you are out of the laboratory.

There are access points built into the design of the CT37stax, allowing truly independent validation and monitoring of the incubator's performance.

In order to protect the incubator from network attacks, incubator settings cannot be changed over the network without first pressing the 'unlock' button on the front of the incubator.



Improved Workflow

Space saving and ergonomic



- Operates inside most flow hoods
- Reduces dish movement
- Single handed loading and unloading

The CT37stax multi chamber incubator incorporates many features designed to improve work processes and work flow in the laboratory.

The incubator, even with all six incubation chambers installed, can be sited inside most flow hoods found in modern laboratories. Having the incubator situated next to the microscope reduces the risks associated with dish movement.

Each incubation chamber can be easily removed making cleaning easier and more effective.

The baffle plate fitted above the top incubation chamber ensures that even when sited in a flow hood the incubator performance is not impaired.

The CT37's design ensures dishes can be loaded and unloaded from any of the incubation chambers using a single handed technique, reducing the risk of contamination of the cells being cultured.



It's the details that matter – EASY CLEANING

CT37stax Specification

PARAMETER	SPECIFICATION
Number of incubation chambers	6
Size (Foot print)	440 x 440 mm
Maximum dish capacity	
35mm petri dish	72
60mm petri dish	36
Square multi well	24
Tray dish insert required	No, dish layout etched in chamber base
Patient capacity	36
Individual chamber control	Yes
Temperature control range	Ambient +5 °C to 40 °C
Temperature accuracy	+/- 0.1 °C
Temperature uniformity	+/- 0.2 °C
Heated lids	Yes
Humidified chamber	Yes via optional water tray
Gas input	Pre-mix
CO ₂ Range	2.0 to 10%, Set via premix used
CO ₂ Monitoring	Yes , via built in PetriSense or independently using external PetriSense
System control	Via PIMS software on PC
Data logging software	Yes via PIMS software
Alarm parameters monitored	Temperature high and low; gas flow; power fail; CO ₂ level
Independent monitoring access	Yes, via independent PT100 temperature sensor, pH and CO ₂ via PetriSense
pH Monitoring	Yes using PetriSense
External Alarm relay output	Yes
Power supply	Dual External Power Supplies



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