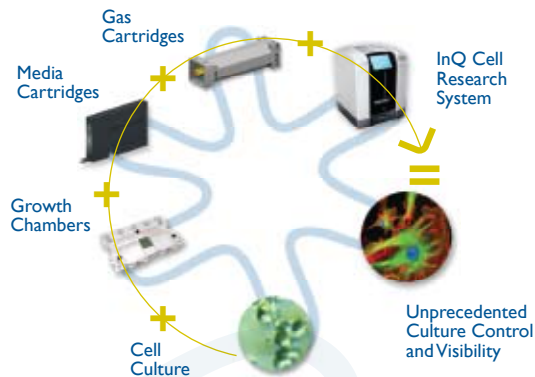


Presenting the InQ Biosciences Cell Research System, a revolutionary way of overcoming the limitations of current cell culture lab technology to produce breakthrough research.



HOW IT WORKS:

The InQ Cell Research System is a unique cell cultivation system for growing, sustaining, and monitoring live cells and tissue without the contamination risks and daily handling requirements of Petri dish/incubator technology. The InQ system provides dual growth chambers (one experiment, one control), continuous media and gas flows, and precise temperature control. The on-board computer provides fully programmable variation of the cell growth chamber environment to accurately model bodily function and disease mechanisms. The built-in lab-quality fluorescent microscope takes images on your schedule, analyzes them for recognizable conditions, and texts or e-mails advisory messages and alerts.



KEY EXPERIMENT BENEFITS:

The InQ system enables the scientist to precisely specify experiment modeling of body conditions, including circadian temperature rhythms, continuously varying gas mixtures and media gas saturation percentages, automatic introduction of drugs according to a profile, and modeling of waste elimination functions. It comes with an extensive library of pre-programmed protocols that the scientist can modify using the InQwell graphic editor to specify the exact experimental conditions desired. InQ protocols can be e-mailed to another InQ user, who can precisely reproduce the original experiment conditions.

KEY PERSONAL BENEFITS:

The continuous computer-controlled supplies of media and gasses mean that researchers are no longer burdened by the 12- or 24-hour Petri dish and incubator cycle of

media replacement and sample observation. Instead, they can observe the latest still and video images on smartphones or other Internet-enabled devices from any location. The InQ system will also text your lab technician when consumable supplies need replacement, so the experiment will not be jeopardized.

NETWORKING BENEFITS:

Each InQ system has a touch-sensitive display for local control and observation. It also will connect to the lab's Ethernet network, plus the researcher's workstation for monitoring and control. A local workstation will be designated as a server for storage of protocols, data, and images. The InQbio website will also be available to users for additional services, such as event and alarm text messaging, e-mailing, and image transmission to staff outside the lab.

Specifications



INQ CELL RESEARCH SYSTEM

The InQ benchtop instrument houses the growth chamber, media, gas, and waste cartridges, and heaters. The control computer sequences the operations of valves, pumps, heaters, and microscope. It operates experiment protocol, records data and images, and reports to all over the local network.

- › **Power:** 110-220 VAC, 50-60 Hz
- › **Network connection:** RJ45 100-1000 MB Ethernet
- › **Function:** Provides infrastructure and controls for cell growth cartridges, temperature, and supplies of media and gasses. Collects parameter data and images from a built-in microscope (one of two available models). The control computer sequences the experiment according to a protocol, collects data and images, and makes all data and images available to the local network and via the Internet.



CELL GROWTH CARTRIDGE

(ONE SLOT PER INQ)

The growth cartridge holds two identical chambers, one for the experiment and one for the control. Cells are introduced via the lid or septa, and live without human handling for the entire experiment.

- › One-time use, gamma sterilized
- › Two identical growth chambers per cartridge
- › Each chamber includes septa port and openable lid
- › Made of clear polystyrene plastic
- › Chamber floor is cell-adherent



MEDIA SUPPLY CARTRIDGES

(2 SLOTS PER INQ)

Media supply cartridges hold media (with drug). Pumps circulate the media through the growth chambers continuously, eliminating the need for daily renewal.

- › One-time use, gamma sterilized
- › **Available:** empty for filling or pre-loaded with choice of media.
- › **Function:** supplies media for circulation through the growth chamber, may be mixed proportionally with media sourced from the 2nd cartridge



MEDIA COLLECTION CARTRIDGE

(2 SLOTS PER INQ)

Media collection cartridges hold spent media for later analysis. Media can be re-circulated or partially re-circulated to achieve certain experiment conditions.

- › One-time use, gamma sterilized
- › **Available:** empty
- › **Function:** collects spent media. Media may be selectively recirculated fully or proportionally.



GAS SUPPLY CARTRIDGES

(4 SLOTS PER INQ)

Oxygen, nitrogen, CO₂, argon, are automatically mixed and perfused to a selectable saturation level. Custom mixes are available.

- › One time use
- › **Volume:** depends on the gas contained
- › **Function:** supplies gases mixed in a specified proportion, and perfused to a certain percentage.

MICROSCOPE (2 MODELS)

- › Standard microscope
- › Fluorescent Phase Contrast Microscope



InQ Biosciences Corporation
515 Sparkman Drive
Huntsville, AL 35816
john@inqbio.com