

OxyGenie™

ALWAYS EVOLVING
ALWAYS PUSHING
ALWAYS DELIVERING



 Baker





Provides compact, portable and continuous physoxic environment for cells

OXYGENIE™

Ideal for short term Hypoxia/Physoxia studies

Ideal for conducting high resolution microscopy or irradiation studies under continuous physoxia, further expanding the time in which your cells are exposed to in vivo-like cell growth conditions.

PHYSIOLOGICAL

OxyGenie™ provides for a continuous, physoxic environment for your cells. It is a unique, miniaturized incubation platform designed to deliver the physiological O₂ and CO₂ conditions your cells require to thrive.

PRECISE

A temperature-controlled instrument that facilitates efficient gas delivery in order to deliver the specific concentration of O₂ and CO₂ your research and cells require. May also be utilized in conjunction with short term studies requiring other gas-controlled culture conditions.

PORTABLE

Transport OxyGenie™ from lab to lab, floor to floor, and building to building under physoxia! OxyGenie™ provides non-disruptive culture conditions for up to 2 hours without ever having to connect the device to a power source.

Your entry into Physoxia

OxyGenie™ is a key tool for use in proof-of-concept or start-up validation for physiological cell culture.

OxyGenie™ connects directly to a gas cylinder for continuous physoxia; or, it may be utilized as a portable tool when utilizing miniature gas cylinders supplied with each device.

6 culture wells facilitate complete enclosed physiological growth conditions, seated on microscope glass, allowing for adaptation to any experimental procedure.



External Dimensions	mm	Inch
Width	387 (+ Handles 24/82mm)	15.4 (+ Handles 0.81N)
Depth	300	11.8
Height	157 (+ Legs 8mm)	6.7

Gas Container	8 Hours each
Battery Life	2 Hours

TEMPERATURE

(Including level of stability / uniformity)

- Temperature control up to 60°C
- T - range: from ambient to 60°C
- T - accuracy on specimen: $\pm 0.3^{\circ}\text{C}$
- External T - sensor (included)

- On-board data logging and download routines to USB
- On-board logging of calibration and alarm events
- Alarm buzzer and external alarm connector

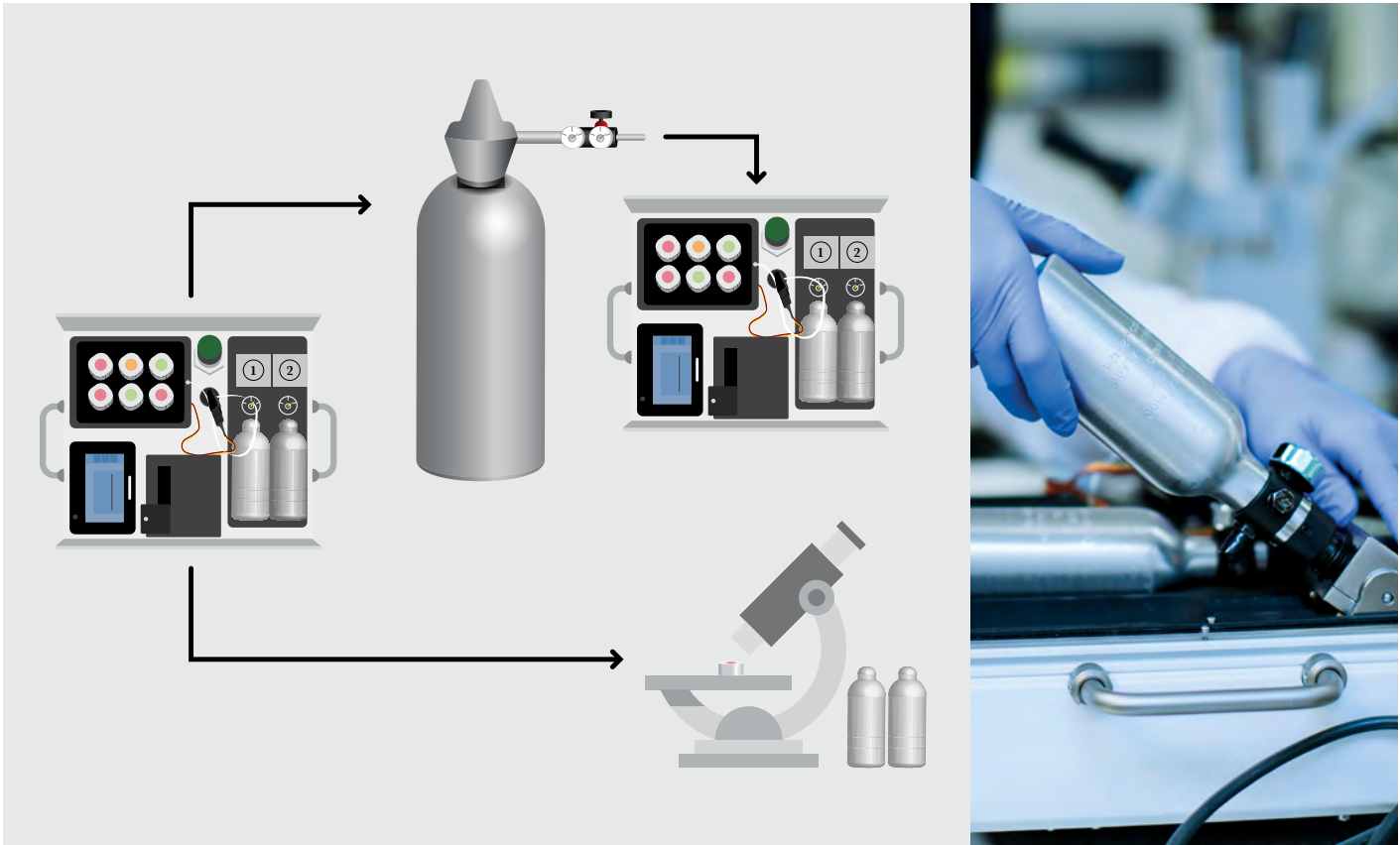
LCD TOUCH SCREEN CONTROL

- Touch screen adjustable temperature parameters and temperature data logging
- External temperature sensor (included) and self calibration routines allows easy calibration of the heating devices for the highest accuracy on sample temperature
- The controller is equipped with password protected routines to re-calibrate the sensors against certified thermometers

IMAGING CAPABILITIES

- Silicone culture wells seated on microscope slides of different thicknesses: 170um, 500um and 1mm
- Borosilicate coverslip mount on request (#5 -> 0.5mm thick or #1.5 -> 0.17mm thick)
- Focal plane 1.8mm (with 1mm glass) from the bottom of the heater plate (heater attached)
- Weight: 8kg

Recommended gas composition of used mixtures with Nitrogen (N_2) as carrier gas – O_2 : 0% - 21%, CO_2 : 0% - 10%





KEY FEATURES



- Plug & play in just a few steps
- Benchtop working with easy storage
- Easy access for researchers looking to carry out short term physiological experiments
- Useful for shared equipment such as confocal microscopes, electron microscopy sample preparation
- Irradiation compatible (needs to be uncoupled from OxyGenie™ before treatment)
- Utilize ‘filler station’ and mini gas bottle to perform portable physiological studies (sold as an optional accessory)
- Can accommodate a wide variety of cell types, including animal cells, bacteria, fungus, plants, drosophila, etc.

CONSUMABLES



- Silicone cell culture well
- Microscope glass

ACCESSORIES



- Minature gas cylinder filling station, required for portable studies
- Culture chamber lid
- Culture chamber sealing ring
- Culture chamber cover
- Culture chamber cover lock

OxyGenie™ is a key tool for use in proof-of-concept or start-up validation for physiological cell culture within your lab, with minimal risk





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