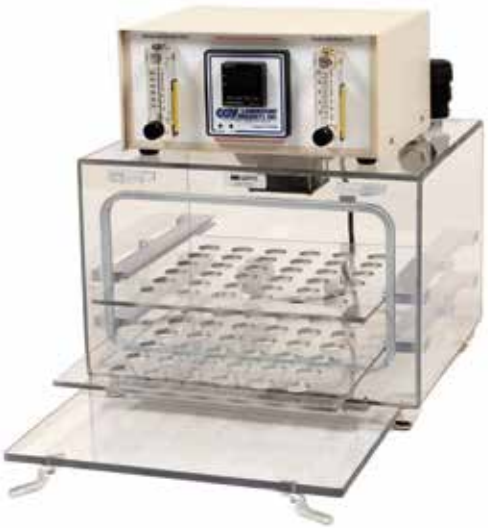
Hypoxic chambers

O_2 control enviroment for *InVitro* studies

O_2 control glove boxes

O_2 control cabinets



Hypoxic • Hyperoxic • Normoxic • Physiologic • Intermittent hypoxia • Pathologic

Flexible solutions. Reliable results.

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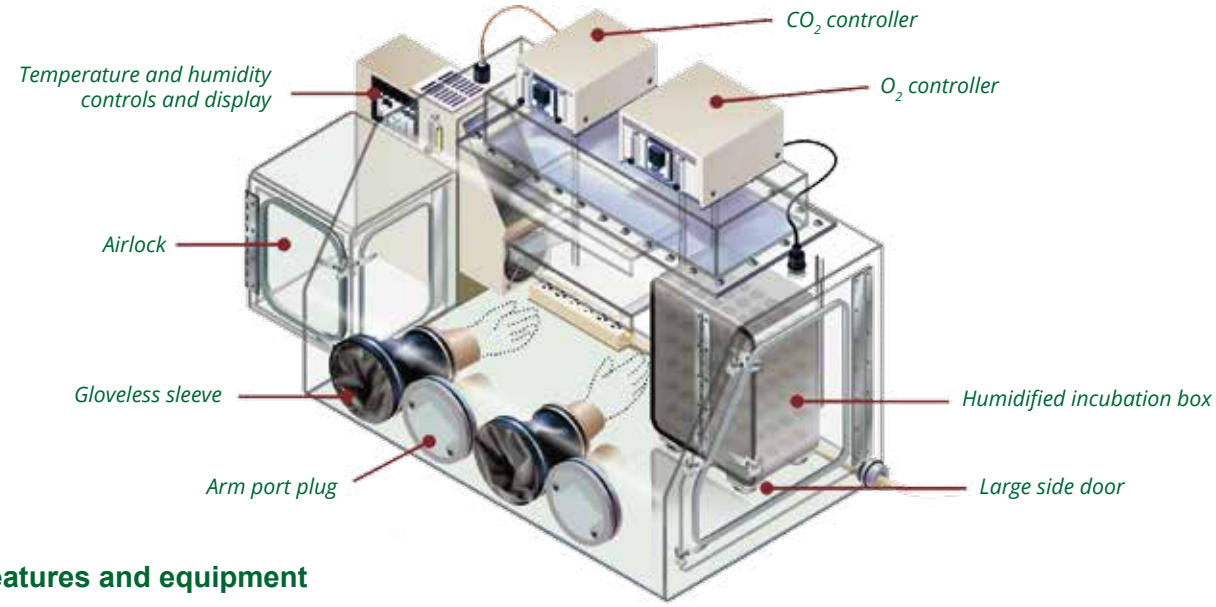
Accelerate your biomedical research

O_2 control glove boxes for *InVitro* studies



Standard features and equipment

- Control of O_2 and CO_2 in 0.1% increments
- Gloveless sleeves (operator's arms and hands may enter the box through a cuff-and-sleeve system without compromising the environment)
- Large side door for initial equipment installation
- Interior power supply
- Arm port plugs seal box when operator is not working in it
- Adjustable interior shelves
- Gloves may be attached to sleeves
- Patented diaphragm top to compensate for small volume changes (e.g. hands entering), increasing user ergonomic comfort
- Ergonomic sliding airlock shelf for sample transfer

Adaptable to your specific needs

Recirculating atmosphere filtration system - HEPA

This capsule system filters the box atmosphere and controls contamination through a standard HEPA filter. The external pump-activated system has the filter mounted outside the box. Equipped with sealed, quick-disconnect fittings, the filter is fast and easy to change without compromising filter and glove box integrity. Other types of filters can be added.

UV light

A combination of fluorescent and 254-nanometer UV lights provides illumination and decontamination of the work area.

Anoxic upgrade kit

Coy offers a kit for upgrading O_2 control glove boxes to enable the user to create an anoxic environment, using catalyst reacting with a non-flammable hydrogen gas mix.

Feed-thru adaptor

Electrical wiring, tubing or cords are input through factory-installed feed-thru adaptors sealed through the glove box wall.

Microscope view port

Microscopes, which are valuable tools for intrabox work, are easier to use with this optically clear, flexible vinyl port. The port is sealed to the box wall and is installed directly over the microscope's eyepieces, enabling easy use of the oculars. Cultures may go directly from incubation to the microscope, allowing the researcher to see effects that may be lost when an imaging and/or media change is done outside of a controlled environment. Custom sizing of glove boxes to fit specific microscopes is available.

Imaging glove box: *This alternative to microscope stage chambers and enclosures for live cell imaging provides a constant environment during media change, incubation and imaging.*

Custom sizing for analytical equipment

Perform all analysis and manipulations in a controlled environment. Custom sizing and design allow for use of equipment such as a flow cytometer, plate reader, bio-reactor and more.

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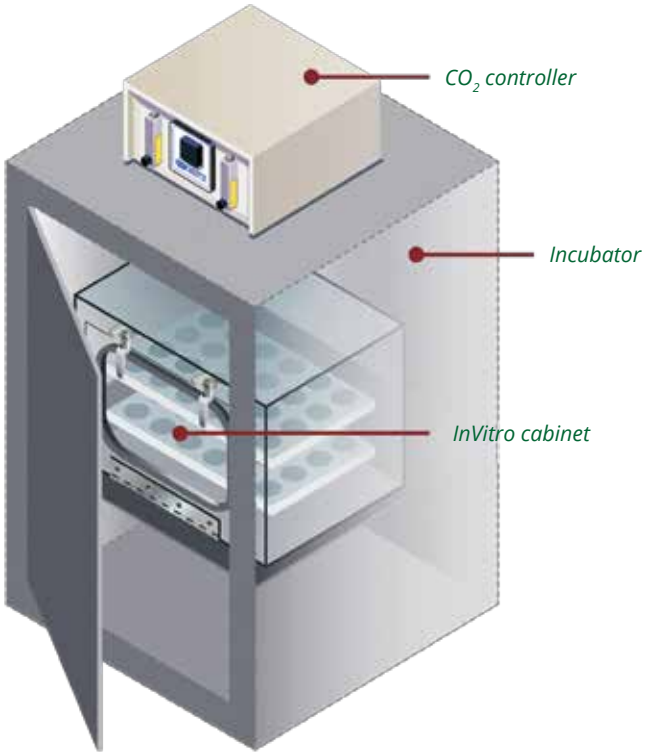
O_2 control cabinets for *InVitro* studies



Standard features and equipment

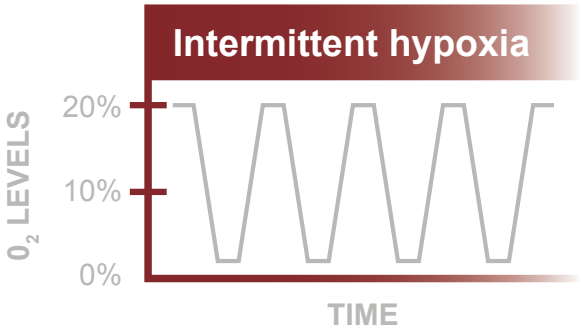
- O_2 controller and sensor
- Pressure relief valve
- Two sensor ports
- Circulation fan
- Gas inlet
- Pullout sliding shelves
- Humidification tray
- Adjustable leveling pads
- Factory calibrated for 0 - 20.9% O_2 operation

COY automatic CO_2 control system

Used in conjunction with the O_2 controller, the Coy CO_2 controller allows for precise control and constant digital monitoring of CO_2 gas inside the cabinet. The controller compares the measured CO_2 level to a user-defined set point and controls the introduction of N_2 or CO_2 gas into the cabinet. The digital display allows the user to continuously monitor the cabinet CO_2 level and adjust the level from 0-20% in 0.1% increments. Unlike other systems, this dual controller approach allows simultaneous bi-directional control of O_2 and CO_2, which is important since an adjustment in one gas can affect the level of the other setpoint. The digital display allows the user to monitor the CO_2 levels constantly for 0-20% control in 0.1% increments.

Intermittent hypoxia (for dynamic O_2 cycling)

A ramp and soak upgrade is available as a factory-installed option for timed oxygen profile/cycle needs. The upgrade includes automatic cycling between multiple O_2 setpoints plus voltage outputs that allow readings to transfer to a data logger, chart recorder or computer program. Transfer is especially helpful when 24-hour documentation is required.



Accelerate your biomedical research

O_2 control glove boxes for *InVitro* studies

Product details

Control ranges

O_2 CONTROL
Factory calibrated for 0-20.9% O_2 operation. Hyperoxic studies are possible.

CO_2 CONTROL
0-20% in 0.1% increments and control tolerance.

TEMPERATURE CONTROL
Factory calibrated for 0-20.9% O_2 operation. Hyperoxic studies are possible.

HUMIDITY IN GLOVE BOX
Controlled to create non-condensing environment.

HUMIDITY IN INCUBATION BOX

Standard sizes

POLYCARBONATE SIZES, INTERNAL WORKSPACE

1 person:	1041 x 584 x 584 mm
2 person:	1499 x 584 x 584 mm

Custom sizing available.

Contact us to discuss your needs.

O_2 control cabinets for *InVitro* studies

Product details

Custom sizing options

Though this cabinet comes in four standard-size units, we can economically custom size or configure a cabinet to your lab needs. With modular designs and accessories, and 40 years of in-house customization experience, Coy is flexible in its problem-solving approach.

Standard Sizes

O_2 control cabinet - model 1: *1 shelf*	241 x 406 x 381 mm
O_2 control cabinet - model 2: *2 shelf*	292 x 406 x 381 mm
O_2 control cabinet - model 3: *3 shelf*	356 x 406 x 381 mm
O_2 control cabinet - model 4: *4 shelf*	413 x 406 x 381 mm

Custom sizing available. Contact us to discuss your needs.

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