# InvivO$_2$

## Culture as nature Intended

Beratung, Vertrieb, Service:

RIEGER
Industrievertretungen GmbH
www.rieger-iv.at

**Wir sind für Sie da:**
E-Mail: office@rieger-iv.at
Telefon: +43(1) 728 00 52
Fax: +43(1) 728 69 16
Rustenschacher Allee 10
1020 Wien, Austria

Baker

# InvivO$_2$ mimics oxygen physiology, offering you a crucial new dimension for your cell biology research

**InvivO$_2$**
**Physiological Cell Culture Workstation**

Since 1998 Baker has been working with pioneering scientists around the world to make breakthroughs in cell biology.

Over those years researchers have devoted their lives to advancing knowledge and understanding of the way cells behave.

And that means from day one you have to be confident that your results can be trusted. If it's got to be right, then it's got to be Baker.

The InvivO$_2$ workstation was designed and built to mimic the physiology of your subject matter, giving you the reassurance of precise results under controlled conditions.

It allows you to study the most complex of cell interactions under precise physiological conditions, regulating and maintaining oxygen, carbon dioxide, temperature and humidity.

Whether you're hoping to replicate the environment of blood vessels or lung tissue, the InvivO$_2$ is the best tool for the job.

# Precision control for optimal conditions

Fully integrated ICONIC™ gas mixing system comes as standard on all Invivo$_2$ workstations, giving you precise control over the environment. Its intuitive touch-screen controls help simplify calibration, speed equalization and download valuable data with just a few taps.

## LITTLE DETAILS MAKE A BIG DIFFERENCE

- Simple $O_2$ calibration sensor, just one touch needed
- Controls $O_2$ from 0.1% to 23.0% in 0.1% increments (can be 0.0% with anoxic accessory)
- Controls $CO_2$ from 0.1% to 30.0% in 0.1% increments
- Temperature control between ambient +5°C to 45°C
- Standard humidity control and optional ultrasonic humidity up to +85% RH @37°C

## INNOVATIVE DESIGN FEATURES

- Removable Pop-Off™ front cover for easy set-up and cleaning
- Single piece workstation shell with optimal thermal properties for heat retention, providing energy efficiency
- Internal HEPA filtration as standard (Optional Feature on Invivo$_2$ 300 model)
- Data logging and retrieval function for all environmental parameters
- Direct-hand access using Ezee Sleeve™ port systems
- Intelligent interlock purge with full purge and fast purge options, for economic gas consumption
- See-through interlock door
- Alarm functions for our of set point and low gas with option to connect to external alarm systems
- Remote monitoring allows complete control no matter where you are
- Modular, expandable and upgradeable
- Dual chamber model allows for two independent atmospheres simultaneously
- Possible for second simultaneous $O_2$ atmosphere in same footprint when combined with PhO$_2$x Box
- Optical $O_2$ sensor with 4 years between replacement

# Physiological cell culture workstations

## THE BEST TOOLS FOR THE JOB

Each model in the InvivO$_2$ family is carefully refined to suit your specific needs, with advanced ergonomic design providing excellent hand access and rapid material transfer into the workstation.

### InvivO$_2$ Small Platform (I 300)

Compact and economical low oxygen workstation

**External Dimensions**

| | | |
|---|---|---|
| Width | 790mm | 31.1in |
| Depth | 679mm | 26.7in |
| Height | 872mm | 34.3in |

### InvivO$_2$ (I 400)

Versatile workstation ideal for optimal cell culture experiments

**External Dimensions**

| | | |
|---|---|---|
| Width | 1252mm | 49.3in |
| Depth | 797mm | 31.3in |
| Height | 1025mm | 40.4in |

### InvivO$_2$ with Large - Interlock (I 500)

Allows transfer of larger flasks and increased number of plates and dishes

**External Dimensions**

| | | |
|---|---|---|
| Width | 1392mm | 54.8in |
| Depth | 797mm | 31.3in |
| Height | 1025mm | 40.4in |

Scan the QR code to see more about the InvivO$_2$ range

### InvivO$_2$ Dual Chamber (I 1000)

For two independent atmospheres simultaneously

**External Dimensions**

| | | |
|---|---|---|
| Width | 2404mm | 94.6in |
| Depth | 797mm | 31.3in |
| Height | 1025mm | 40.4in |

### InvivO$_2$ (I 300)

- .5m$^2$/5.77 ft$^2$ bench footprint
- 270 x96 well plate capacity
- 30 plate interlock capacity

### InvivO$_2$ (I 400)

- 210.3L working volume
- 400 x 96 well plate capacity
- 26L interlock capacity

### InvivO$_2$ (I 500)

- 210.3L working volume
- 400 x 96 well plate capacity
- 41L interlock capacity

### InvivO$_2$ Dual Chamber (I 1000)

- Two independently controllable chambers, each 210.3L
- 800 x 96 well plate capacity
- 49L central interlock capacity with right and left hand opening



## STANDARD FEATURES & ACCESSORIES

### All Models

- Ezee Sleeve™ ports for direct hand access
- Detox sachet (Small)

**Touchscreen Control:**

- $O_2$ control (from 0.1% to 23.0% in 0.1% increments)
- $CO_2$ control (from 0.1% to 30.0% in 0.1% increments)
- Alarm settings
- Data log (one data set per minute, each set comprises: time, date, $O_2$ (set/actual), $CO_2$ (set/actual) humidity, temperature)
- Light control (on/off, dimming function*)
- 48 month warranty (valid if annual service schedule implemented)

### InvivO$_2$ 400/ 500/ 1000 only

- Internal HEPA filtration to Class 4 (ISO 14644-1); Grade A (2004/23/EU); Class 10 (FED STD 209E)
- Temperature control (7ºC above ambient to 45.0ºC in 0.1ºC increments)
- Removable front (Pop off™, with one touch of a button)
- 210.3L usable chamber volume (InvivO2 400/500), 472L (236 x 2 in InvivO$_2$ 1000)
- Internal power sockets x 3
- Intelligent interlock (automatically sets $O_2$ level to the same level as in the main workstation)
- Remote monitoring/ remote control hardware module
- One narrow and one wide culture rack

**Touchscreen Control:**

- Humidity control (using Aquasorb humidity beads)
- Light control (on/off dimming function)

### InvivO$_2$ 300 only

- Internal HEPA filtration to Class 4 (ISO 14644-1); Grade A (2004/23/EU); Class 10 (FED STD 209E)
- Internal power sockets x 1
- Temperature control (5ºC above ambient to 45.0ºC in 0.1ºC increments)
- Single Plate Entry System (SPES™)
- Automatic Humidity Control

*Dimming function only available on InvivO$_2$ 400 / 500 / 1000

## OPTIONAL FEATURES & ACCESSORIES

### All Models

- Vacuum port connector
- Gas sample port
- Cable gland
- Multi-cable gland (up to 6 individual cables)
- Ezee Cuff™ (Gloveless/Sleeveless Hand Entry)
- RH meter
- $O_2$ meter
- Billups Modular Incubator chamber
- Anoxic mode option (with catalyst sachet large)
- USB port (Power only)
- IQ/OQ Protocol Accessory

### InvivO$_2$ 400/ 500/ 1000 only

- Ultrasonic humidity control (up to 85%)
- Internal monitor for digital microscope
- Stand (choice of static/manual/electric adjustable)
- External HEPA containment package with rubber gloves
- Cooling accessory
- Light protective cover
- Waste port
- Large interlock retrofit kit (41L size)
- Culture rack (wide or narrow)
- Culture rack (light protective)
- Internal shelf (wide or narrow)
- Aquasorb humidity bead packs
- Single Plate Entry System (SPES™)

*Final product may differ from visuals

| | | InvivO$_2$ 300 | | InvivO$_2$ 400 | | InvivO$_2$ 500 | | InvivO$_2$ 1000 Dual Chamber | |
|---|---|---|---|---|---|---|---|---|---|
| | | mm | inches | mm | inches | mm | inches | mm | inches |
| Workstation external dimensions | Width | 790 | 31.1 | 1252 | 49.3 | 1392 | 54.8 | 2404 | 94.6 |
| | Height | 872 | 34.4 | 1025 | 40.4 | 1025 | 40.4 | 1025 | 40.4 |
| | Depth | 679 | 26.7 | 797 | 31.4 | 797 | 31.4 | 797 | 31.4 |
| Workstation external dimensions (on stand) | Width | 900 | 35.43 | 1296 | 51.0 | 1402 | 55.2 | 2414 | 95.0 |
| | Height (lowest/highest stand setting) | 1675.7 | 65.97 | 1682/1982 | 66.1/76.4 | 1682/1982 | 66.1/76.4 | 1682/1982 | 66.1/76.4 |
| | Depth | 680 | 26.77 | 797 | 31.4 | 797 | 31.4 | 797 | 31.4 |
| Workstation internal dimensions | Width | 540 | 19.7 | 761 | 30.0 | 761 | 30.0 | 761 (per chamber) | 30.0 (per chamber) |
| | Height | 535 | 16.5 | 535 | 21.1 | 535 | 21.1 | 535 (per chamber) | 21.1 (per chamber) |
| | Depth | 546 | 18.1 | 580 | 22.8 | 580 | 22.8 | 580 (per chamber) | 22.8 (per chamber) |
| Workstation capacity 96 well plates | Number of plates (128 x 86 x 17mm*) | 152 | | 399 | | 399 | | 798 | |
| Workstation capacity T 75 flasks | Number of flasks (150 x 80x 36mm*) | 90 | | 155 | | 155 | | 310 | |
| Workstation weight | kgs/lbs | 59/130 | | 100/220 | | 120/264 | | 210/462 | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Interlock dimensions | Width | 149 | 5.9 | 176 | 6.9 | 316 | 12.4 | 316 | 12.4 |
| | Height | 285 | 7.5 | 299 | 11.8 | 299 | 11.8 | 299 | 11.8 |
| | Depth | 253 | 9.6 | 366 | 14.4 | 366 | 14.4 | 366 | 14.4 |
| Interlock capacity volume | Accessible litres | 7.6 | | 26 | | 41 | | 49 | |
| Interlock capacity 96 well plates | Number of plates (128 x 86 x 17mm*) | 26 | | 42 | | 70 | | 98 | |
| Interlock capacity T 75 flasks | Number of flasks (150 x 80 x 36mm*) | 6 | | 21 | | 28 | | 42 | |
| Interlock purge times. User can choose $O_2$% value between 0% & 10% | to 5% $O_2$ (seconds) | N/A | | 19 | | 28 | | 28 | |
| | to 1% $O_2$ (seconds) | N/A | | 45 | | 67 | | 67 | |
| | to 0% $O_2$ (seconds) | 30 | | 60 | | 90 | | 90 | |

Maximum Internal Dimensions shown. Please contact your local sales representative for further information.

*Dimensions are given in length x width x height

Scan the QR code to see more about the InvivO$_2$ range

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