

# InvivoO<sub>2</sub>

Culture as nature  
Intended



 Baker





# InvivoO<sub>2</sub> mimics oxygen physiology, offering you a crucial new dimension for your cell biology research

## InvivoO<sub>2</sub> 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 InvivoO<sub>2</sub> 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 InvivoO<sub>2</sub> is the best tool for the job.



# Precision control for optimal conditions

Fully integrated ICONIC™ gas mixing system comes as standard on all InvivoO<sub>2</sub> 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<sub>2</sub> calibration sensor, just one touch needed
- Controls O<sub>2</sub> from 0.1% to 23.0% in 0.1% increments (can be 0.0% with anoxic accessory)
- Controls CO<sub>2</sub> 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 InvivoO<sub>2</sub> 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 out 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<sub>2</sub> atmosphere in same footprint when combined with PhO<sub>2</sub>x Box
- Optical O<sub>2</sub> sensor with 4 years between replacement

# Physiological cell culture workstations

## THE BEST TOOLS FOR THE JOB



Each model in the InvivoO<sub>2</sub> family is carefully refined to suit your specific needs, with advanced ergonomic design providing excellent hand access and rapid material transfer into the workstation.



### InvivoO<sub>2</sub> Small Platform (i300)

Compact and economical low oxygen workstation

#### External Dimensions

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





### Invivo<sub>2</sub> (i400)

Versatile workstation ideal for optimal cell culture experiments

#### External Dimensions

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



### Invivo<sub>2</sub> with Large - Interlock (i500)

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



### Invivo<sub>2</sub> Dual Chamber (i1000)

For two independent atmospheres simultaneously

#### External Dimensions

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



Scan the QR code to see more about the Invivo<sub>2</sub> range



### Invivo<sub>2</sub> (i300)

- .5m<sup>2</sup>/5.77 ft<sup>2</sup> bench footprint
- 152 x 96 well plate capacity
- 26 plate interlock capacity



### Invivo<sub>2</sub> (i400)

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



### Invivo<sub>2</sub> (i500)

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



### Invivo<sub>2</sub> Dual Chamber (i1000)

- 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)
- Data log (one data set per minute, each set comprises: time, date, O<sub>2</sub> (set/actual), CO<sub>2</sub> (set/actual) humidity, temperature)

### Touchscreen Control:

- O<sub>2</sub> control (from 0.1% to 23.0% in 0.1% increments)
- CO<sub>2</sub> control (from 0.1% to 30.0% in 0.1% increments)
- Alarm settings
- Light control (on/off, dimming function)
- 48 month warranty (24 month for i300, valid if annual service schedule implemented)

### InvivoO<sub>2</sub> 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 (7°C above ambient to 45.0°C in 0.1°C increments)
- Removable front (Pop off™, with one touch of a button)
- 210.3L usable chamber volume (InvivoO<sub>2</sub> 400/500), 472L (236 x 2 in InvivoO<sub>2</sub> 1000)
- Internal power sockets x 3
- Intelligent interlock (automatically sets O<sub>2</sub> 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)

### InvivoO<sub>2</sub> 300 only

- Internal HEPA filtration to Class 3 (ISO 14644-1); Grade A (2004/23/EU); Class 10 (FED STD 209E)
- Internal power sockets x 1
- Temperature control (5°C above ambient to 45.0°C in 0.1°C increments)
- Single Plate Entry System (SPES™)
- Automatic Humidity Control

\*Dimming function only available on InvivoO<sub>2</sub> 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<sub>2</sub> meter
- Anoxic mode option (with catalyst sachet large)
- USB port (Power only)
- IQ/OQ Protocol Accessory

### InvivoO<sub>2</sub> 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 <sub>2</sub> _300		Invivo <sub>2</sub> _400		Invivo <sub>2</sub> _500		Invivo <sub>2</sub> _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 <sup>*</sup> )	152		399		399		798	
Workstation capacity T 75 flasks	Number of flasks (150 x 80x 36mm <sup>*</sup> )	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 <sup>*</sup> )	26		42		70		98	
Interlock capacity T 75 flasks	Number of flasks (150 x 80 x 36mm <sup>*</sup> )	6		21		28		42	
Interlock purge times. User can choose O <sub>2</sub> % value between 0% & 10%	to 5% O <sub>2</sub> (seconds)	N/A		19		28		28	
	to 1% O <sub>2</sub> (seconds)	N/A		45		67		67	
	to 0% O <sub>2</sub> (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



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