

InvivoO₂

Culture as nature
Intended



 Baker





InvivoO₂ mimics oxygen physiology, offering you a crucial new dimension for your cell biology research

InvivoO₂ 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 InvivoO₂ 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 InvivoO₂ is the best tool for the job.

Precision control for optimal conditions

Fully integrated ICONIC™ gas mixing system comes as standard on all InvivoO₂ 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.

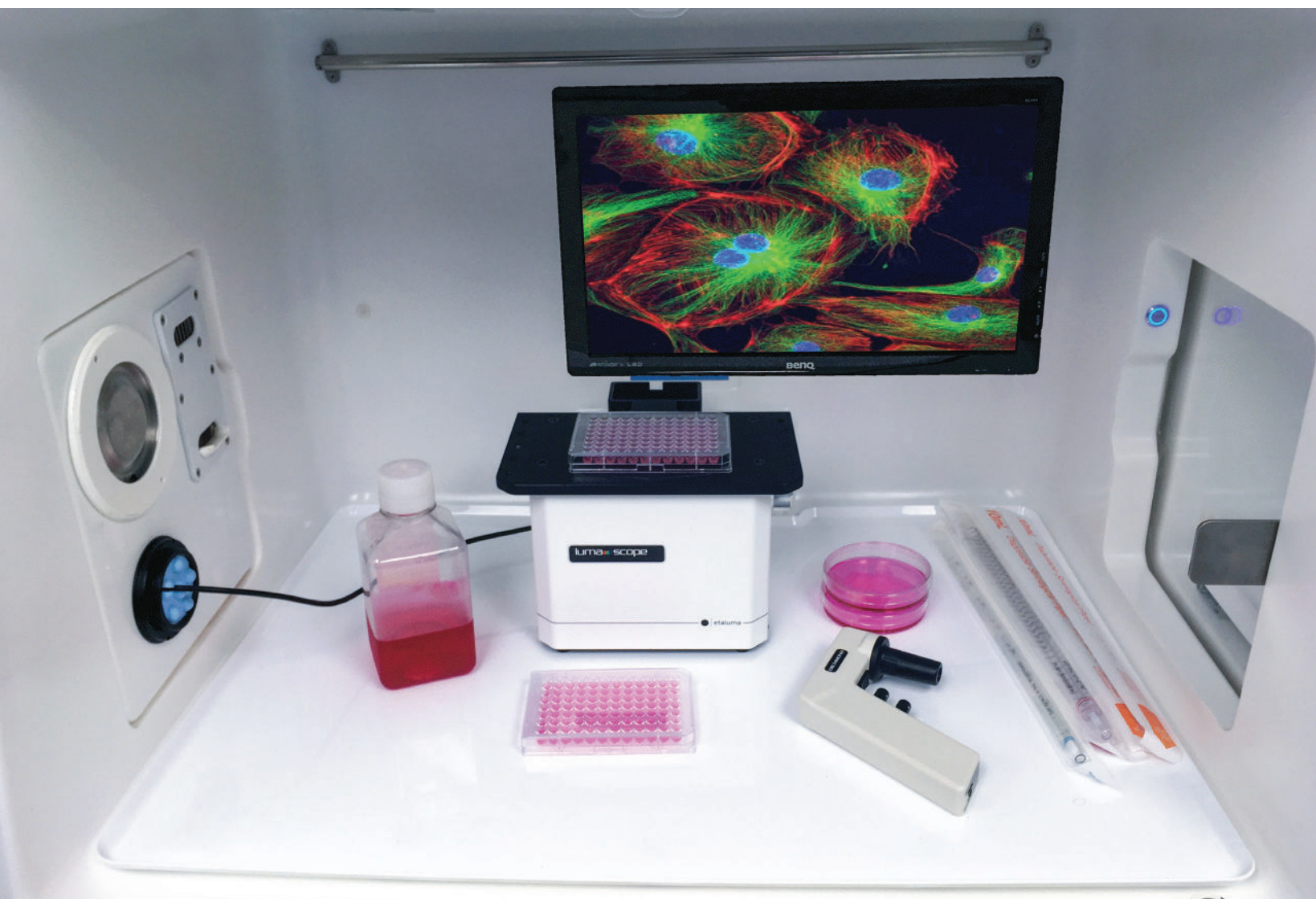
LITTLE DETAILS MAKE A BIG DIFFERENCE

- Simple O₂ calibration sensor, just one touch needed
- Controls O₂ from 0.1% to 23.0% in 0.1% increments (can be 0.0% with anoxic accessory)
- Controls CO₂ 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
- 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 O₂ atmosphere in same footprint when combined with PhO₂X Box
- Optical O₂ sensor with 4 years between replacement



Physiological cell culture workstations

THE BEST TOOLS FOR THE JOB



Each model in the InvivoO₂ family is carefully refined to suit your specific needs, with advanced ergonomic design providing excellent hand access and rapid material transfer into the workstation.



InvivoO₂ (I 400)

Compact workstation ideal for routine cell culture experiments

External Dimensions

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



InvivoO₂ 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

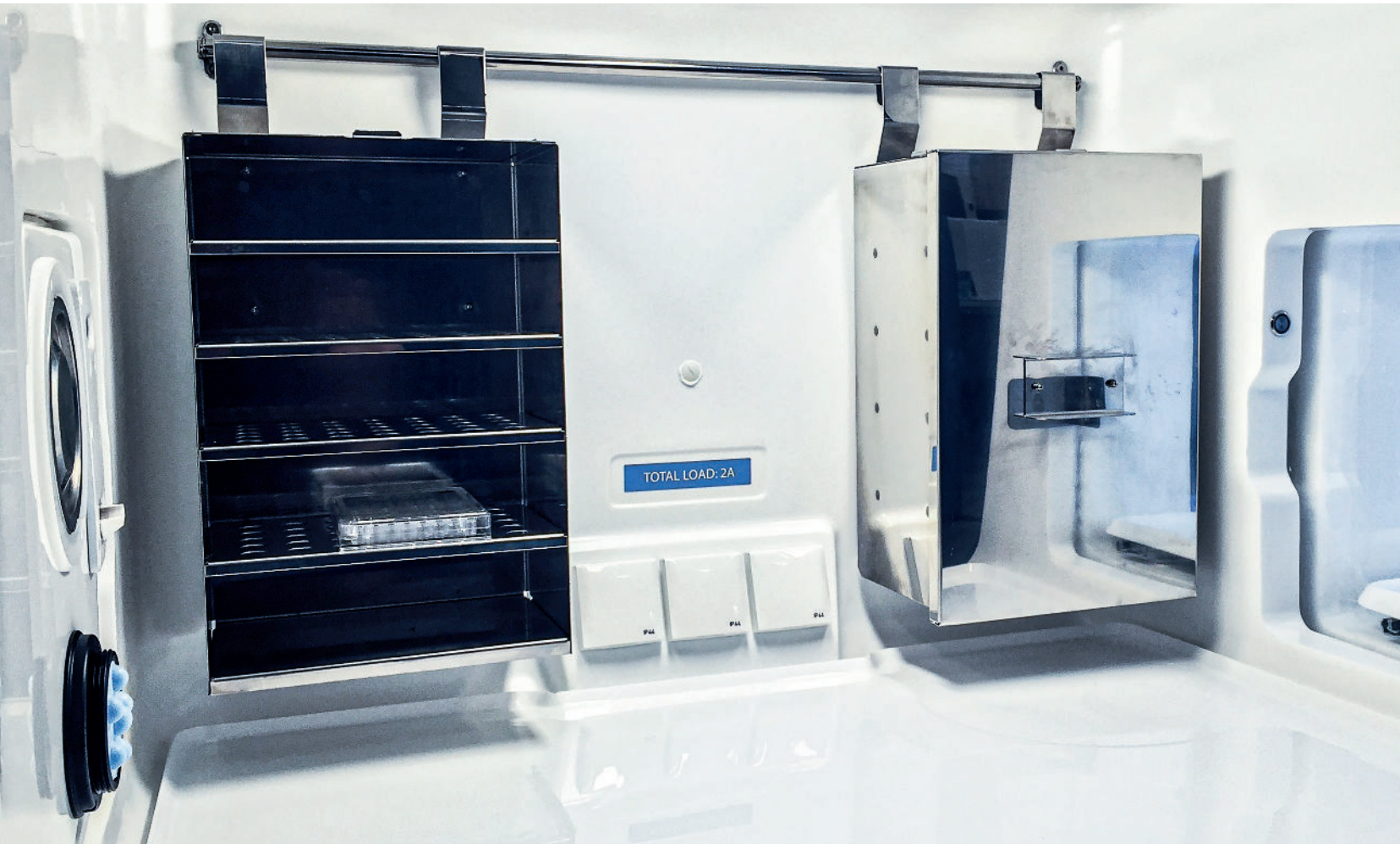


InvivoO₂ Dual Chamber (I 1000)

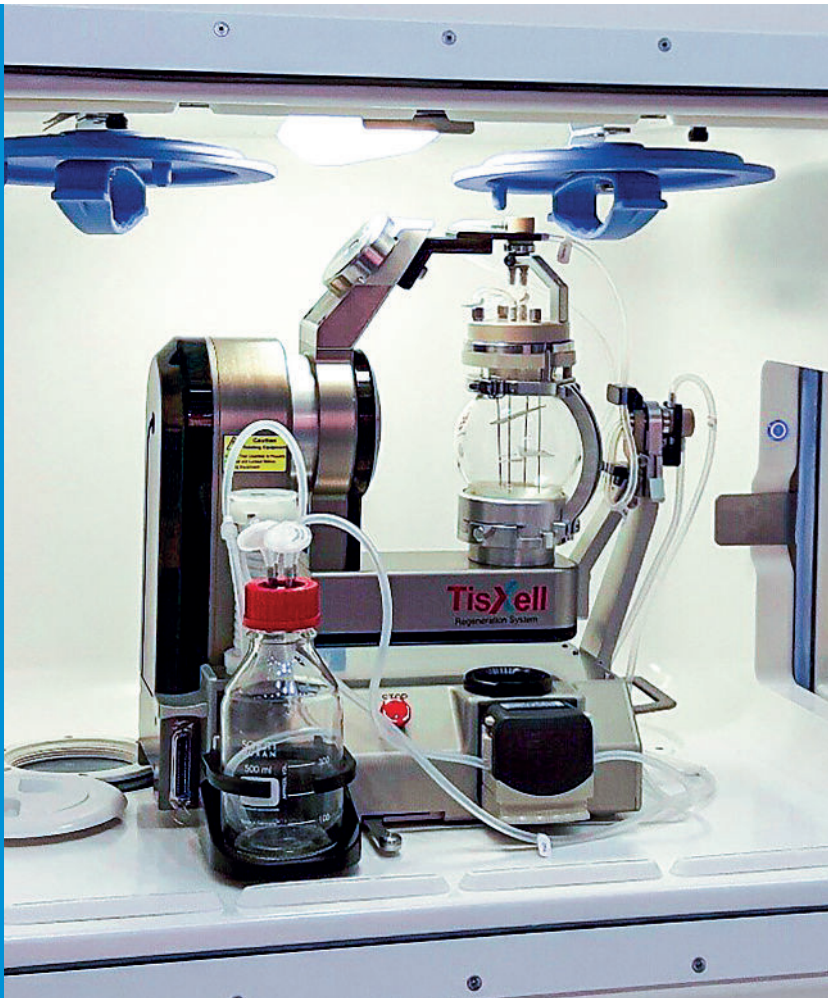
For two independent atmospheres simultaneously

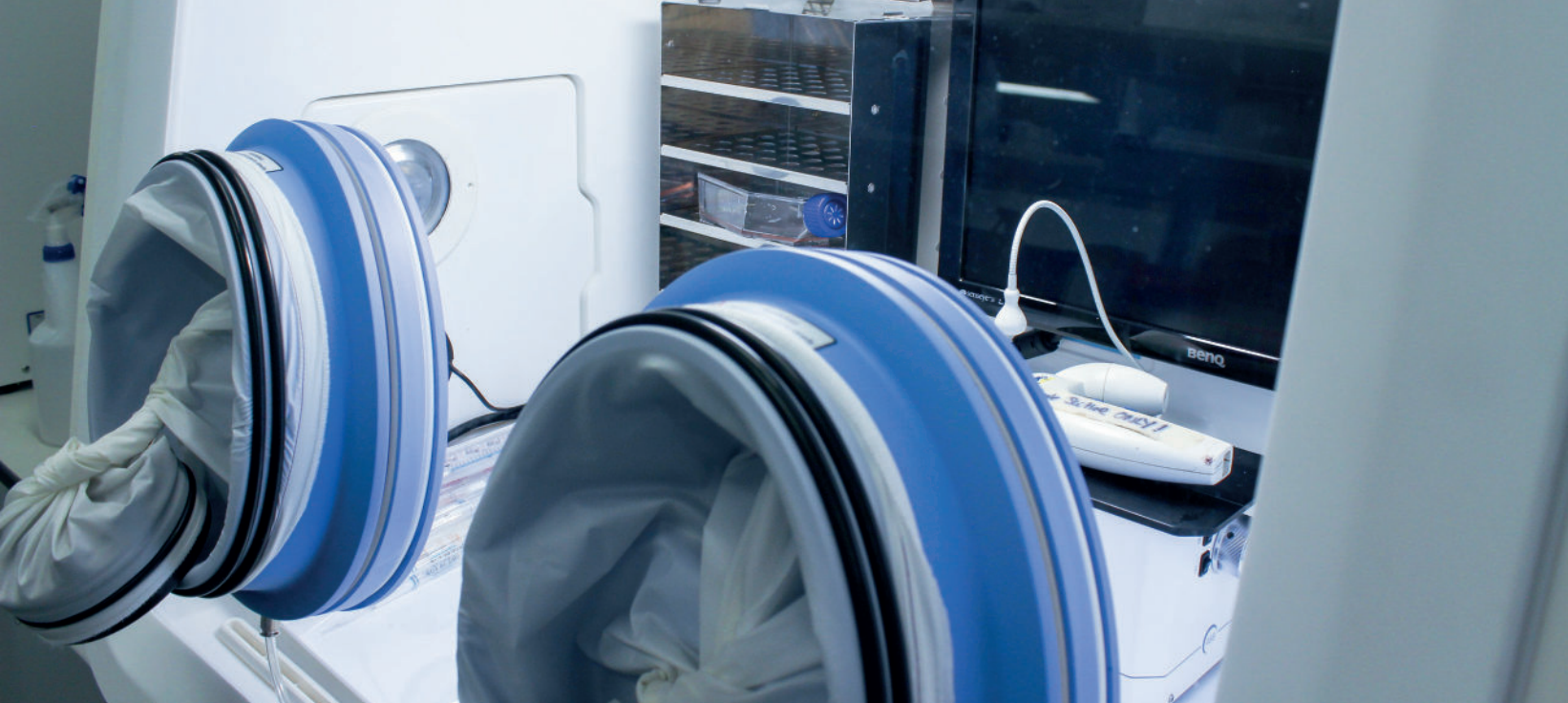
External Dimensions

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



Scan the QR code to see more about the InvivoO₂ range





InvivoO₂ (I 300)

- 86L working volume
- 270 x 96 well plate capacity
- 7.6L interlock capacity



InvivoO₂ (I 500)

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



InvivoO₂ (I 400)

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



InvivoO₂ 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)
- Data log (one data set per minute, each set comprises: time, date, O₂ (set/actual), CO₂ (set/actual) humidity, temperature)
- Alarm settings
- Light control (on/off, dimming function*)
- Touchscreen Control:
 - O₂ control (from 0.1% to 23.0% in 0.1% increments)
 - CO₂ control (from 0.1% to 30.0% in 0.1% increments)

InvivoO₂ 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 (InvivoO₂ 400/500), 472L (236 x 2 in InvivoO₂ 1000)
- Intelligent interlock (automatically sets O₂ level to the same level as in the main workstation)
- Remote monitoring/ remote control hardware module
- Internal power sockets x 3
- One narrow and one wide culture rack
- 48 month warranty (valid if annual service schedule implemented)
- Touchscreen Control:
 - Humidity control (using Aquasorb humidity beads)
 - Light control (on/off dimming function)

InvivoO₂ 300 only

- 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™)
- 12 month warranty

*Dimming function only available on InvivoO₂ 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
- O₂ meter
- Billups Modular Incubator chamber
- Anoxic mode option (with catalyst sachet large)
- USB port (Power only)
- IQ/OQ Protocol Accessory

InvivoO₂ 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

		InvivoO ₂ 300		InvivoO ₂ 400		InvivoO ₂ 500		InvivoO ₂ 1000 Dual Chamber	
		mm	inches	mm	inches	mm	inches	mm	inches
Workstation external dimensions	Width	830	32.7	1252	49.3	1392	54.8	2404	94.6
	Height	650	25.6	1025	40.4	1025	40.4	1025	40.4
	Depth	660	26.0	797	31.4	797	31.4	797	31.4
Workstation external dimensions (on stand)	Width	833	32.8	1296	51.0	1402	55.2	2414	95.0
	Height (lowest/highest stand setting)	643	25.3	1682/1982	66.1/76.4	1682/1982	66.1/76.4	1682/1982	66.1/76.4
	Depth	662	26.0	797	31.4	797	31.4	797	31.4
Workstation internal dimensions	Width	500	19.7	761	30.0	761	30.0	761 (per chamber)	30.0 (per chamber)
	Height	420	16.5	535	21.1	535	21.1	535 (per chamber)	21.1 (per chamber)
	Depth	460	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 ³)	273		399		399		798	
Workstation capacity T 75 flasks	Number of flasks (150 x 80x 36mm ³)	110		155		155		310	
Workstation weight	kgs/lbs	75/165		100/220		120/264		210/462	

Interlock dimensions	Width	150	5.9	176	6.9	316	12.4	316	12.4
	Height	190	7.5	299	11.8	299	11.8	299	11.8
	Depth	230	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 ³)	22		42		70		98	
Interlock capacity T 75 flasks	Number of flasks (150 x 80 x 36mm ³)	10		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



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