



Ruskin Hypoxia and Anoxia Workstations

innovation in incubation



The Ruskinn range of hypoxia workstations has been designed to replicate low oxygen “in vivo” physiology providing the ideal research platform for cell biologists and cancer researchers.

- ↳ Ruskinn has over 10 years of customer feedback & experience refined into developing the ultimate range of hypoxia workstations.
- ↳ Ruskinn boasts over 100 research publications covering all aspects of hypoxia and anoxia featuring our range of controlled atmosphere workstations.
- ↳ Ruskinn has over 400 hypoxia workstations installed in over 40 countries.
- ↳ Ruskinn offers the widest range of workstations to suit individual research needs.
- ↳ Ruskinn’s advanced gas mixing system (GMQ) facilitates accurate and precise environmental control.
- ↳ Ruskinn realises the importance of volatile organic compounds so all our workstations are voc tested & validated.
- ↳ Ruskinn provides enhanced flexibility by offering imaging options (available on larger workstation models).



The Ruskinn INVIVO₂ and HI-TIVE range of advanced hypoxic workstations allows you to study even the most complex cell interactions under perfect hypoxic or anoxic conditions.

Ruskinn Workstations proudly feature accurate O₂ control, accurate CO₂ control, cycle programming, accurate temperature control, accurate humidity control, direct hand access, rapid interlock, 15cm single plate entry system, internal mains power, removable front panel*, efficient gas consumption, VOC filtration, HEPA filtration*, UV filtration*, imaging ready*.



INVIVO₂ 200
Your Personal Workstation



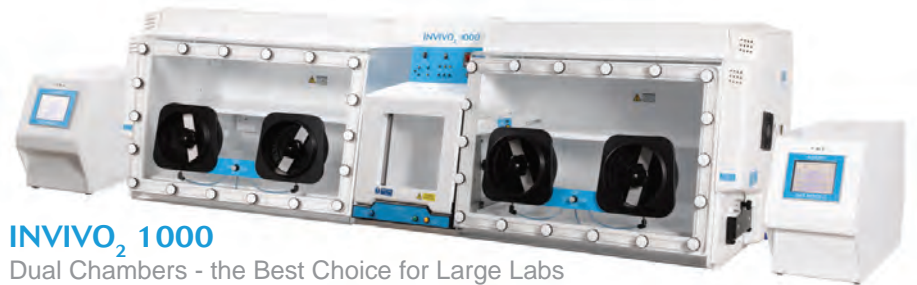
INVIVO₂ 300
Compact Workstation - Larger Interlock



INVIVO₂ 400
Our Most Popular Workstation



INVIVO₂ 500
Facilitates Transfer of Small Equipment



INVIVO₂ 1000
Dual Chambers - the Best Choice for Large Labs



HI-TIVE
Hypoxia Investigations - Total In Vitro Environment
Our Most Advanced Workstation
Imaging ready system, also features HEPA filtration



Gas Mixer Q
Standard on all INVIVO₂
Workstations
(Integrated on HI-TIVE)

*Available only on certain models.

RUSKINN
TECHNOLOGY LTD

innovation in incubation

Reveal Cellular Pathways

INVIVO₂ 200 Hypoxia Workstation

The Ruskinn range of hypoxia workstations has been designed to replicate low oxygen “in vivo” physiology providing the ideal research platform for cell biologists and cancer researchers.

↻ Optimum Working Capacity using Minimum Bench Space

220 x 90mm plate working capacity

↻ Rapid Sample Transfer

Interlock transfers 10 x 90mm plates in 15 seconds

↻ Direct-Hand Access into Workstation

Using convenient cuff & sleeve system (Ezee Sleeve™)

↻ Low Gas Consumption

Designed to work with Nitrogen for economical running costs

↻ Safe Working Environment

VOC filtration tested and validated

↻ Accurate Oxygen Control

Oxygen stability from 0.0% (anoxia) to 20.9% (ambient) in 0.1% increments with one touch sensor calibration

↻ Accurate CO₂ Control

CO₂ stability from 0.0% to 30.0% in 0.1% increments

↻ Cycle Programming

Allows a user-defined timed sequence of up to 4 different O₂ and CO₂ concentrations

↻ Accurate Temperature Control

Incubation control from Ambient + 5°C to 45°C

↻ Accurate Humidity Control

Option of ultrasonic humidity system to give precise environmental control

innovation in incubation

Product Specifications

Workstation Fabrication

- Solvent Bonded Acrylic

Bench Space Requirements

- Height of Unit (excluding stand) 650mm
- Width of Unit (side to side) 1100mm
- Depth 660mm

Internal Workstation Dimensions

- Height 420mm
- Width 500mm
- Depth 460mm
- Maximum Capacity 300 x 90mm Plates
- Working Capacity 220 x 90mm Plates

Workstation Weight

- Weight approx. 65kg

Interlock Dimensions

- Height 200mm
- Width 100mm
- Depth 100mm
- Maximum Capacity 10 x 90mm Plates

Interlock Cycle Time

- 15 Seconds

Atmosphere Control

- Temperature Ambient + 5°C - 45°C
- Humidity Control Ambient - 85% RH
- O₂ Control 0.0% - 20.9%
- CO₂ Control 0.0% - 30.0%
- Activated Carbon Filtration System

Standard Accessories

Workstation

- Gas Mixer Q
- Internal Mains Socket
- Single Plate Entry System
- Direct-hand Access using Ezee Sleeve™ System
- Detox Sachet
- Energy Saving Fluorescent Lamp
- Internal Halogen Spot Lamp
- 3 Petri Dish Holders

Gas Control Software

- USB Communications Port
- 7 Days Continuous Storage of Event Log Data
- One Touch Calibration (O₂)
- On-Screen Fault Assistance
- Cycle Programming

Alarms

- Temperature - Visual and Audible
- Humidity - Visual
- Gas Low Pressure - Visual and Audible

Optional Accessories

- Cable Gland Port
- Vacuum Line Port
- Gas Sample Port
- Ultrasonic Humidification System
- Workstation Stand
- Catalyst Sachet
- Anaerobic Indicator Strips
- Gas Tank Regulators
- Gas Tank Filter Modules
- Power Failure Back up System
- Data Logging Connection

Gas Supply

- Up to 4 Separate Cylinders: H₂/N₂; CO₂; N₂; Air

INVIVO₂ 200

Hypoxia Workstation

The Ruskinn brand was founded in 1993 and rapidly became established as one of the world's leading suppliers and manufacturers of anaerobic and modified atmosphere workstations. Ruskinn's purpose built factory is located within the Sony Technology Centre near Pencoed in South Wales, UK. Ruskinn's range of high quality workstations is available worldwide through a global network of carefully selected distributors.



INVIVO₂ 200
Your Personal Workstation



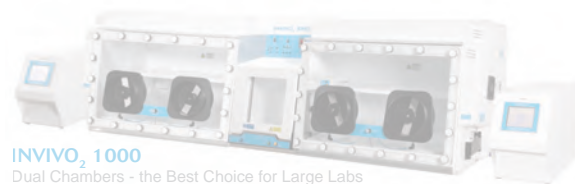
INVIVO₂ 300
Compact Workstation - Larger Interlock



INVIVO₂ 400
Our Most Popular Workstation



INVIVO₂ 500
Facilitates Transfer of Small Equipment



INVIVO₂ 1000
Dual Chambers - the Best Choice for Large Labs



HI-TIVE
Hypoxia Investigations - Total In Vitro Environment
Our Most Advanced Workstation
Imaging ready system, also features HEPA filtration



Gas Mixer Q
Standard on all INVIVO₂ Workstations
(Integrated on HI-TIVE)

For more information contact:

Ruskinn Technology Ltd
Suite 3 Technium Digital, Sony Technology Centre,
Pencoed CF35 5HZ, UK
Tel: +44 (0) 1656 868540 • Fax: +44 (0) 1656 868541
www.ruskinn.com • sales@ruskinn.com

Distributed by:

Reveal Cellular Pathways

INVIVO₂ 300 Hypoxia Workstation

The Ruskinn range of hypoxia workstations has been designed to replicate low oxygen “in vivo” physiology providing the ideal research platform for cell biologists and cancer researchers.

Optimum Working Capacity using Minimum Bench Space
200 x 90mm plate capacity

Rapid Sample Transfer

Interlock transfers 18 x 90mm plates in 35 seconds

Direct-Hand Access into Workstation

Using convenient cuff & sleeve system (Ezee Sleeve™)

Low Gas Consumption

Designed to work with Nitrogen for economical running costs

Safe Working Environment

VOC filtration tested and validated

Accurate Oxygen Control

Oxygen stability from 0.0% (anoxia) to 20.9% (ambient) in 0.1% increments with one touch sensor calibration

Accurate CO₂ Control

CO₂ stability from 0.0% to 30.0% in 0.1% increments

Cycle Programming

Allows a user-defined timed sequence of up to 4 different O₂ and CO₂ concentrations

Accurate Temperature Control

Incubation control from Ambient + 5°C to 45°C

Accurate Humidity Control

Option of ultrasonic humidity system to give precise environmental control

innovation in incubation

Product Specifications

Workstation Fabrication

- Solvent Bonded Acrylic

Bench Space Requirements

- Height of Unit (excluding stand) 650mm
- Width of Unit (side to side) 1100mm
- Depth 660mm

Internal Workstation Dimensions

- Height 420mm
- Width 500mm
- Depth 460mm
- Maximum Capacity 270 x 90mm Plates
- Working Capacity 200 x 90mm Plates

Workstation Weight

- Weight approx. 75kg

Interlock Dimensions

- Height 200mm
- Width 150mm
- Depth 230mm
- Maximum Capacity 18 x 90mm Plates

Interlock Cycle Time

- 35 Seconds

Atmosphere Control

- Temperature Ambient + 5°C - 45°C
- Humidity Control Ambient - 85% RH
- O₂ Control 0.0% - 20.9%
- CO₂ Control 0.0% - 30.0%
- Activated Carbon Filtration System

Standard Accessories

Workstation

- Gas Mixer Q
- Internal Mains Socket
- Single Plate Entry System
- Direct-hand Access using Ezee Sleeve™ System
- Detox Sachet
- Energy Saving Fluorescent Lamp
- Internal Halogen Spot Lamp
- 3 Petri Dish Holders

Gas Control Software

- USB Communications Port
- 7 Days Continuous Storage of Event Log Data
- One Touch Calibration (O₂)
- On-Screen Fault Assistance
- Cycle Programming

Alarms

- Temperature - Visual and Audible
- Humidity - Visual
- Gas Low Pressure - Visual and Audible

Optional Accessories

- Cable Gland Port
- Vacuum Line Port
- Gas Sample Port
- Ultrasonic Humidification System
- Workstation Stand
- Catalyst Sachet
- Anaerobic Indicator Strips
- Gas Tank Regulators
- Gas Tank Filter Modules
- Power Failure Back up System
- Data Logging Connection

Gas Supply

- Up to 4 Separate Cylinders: H₂/N₂; CO₂; N₂; Air

INVIVO₂ 300

Hypoxia Workstation

The Ruskinn brand was founded in 1993 and rapidly became established as one of the world's leading suppliers and manufacturers of anaerobic and modified atmosphere workstations. Ruskinn's purpose built factory is located within the Sony Technology Centre near Pencoed in South Wales, UK. Ruskinn's range of high quality workstations is available worldwide through a global network of carefully selected distributors.



INVIVO₂ 200
Your Personal Workstation



INVIVO₂ 300
Compact Workstation
- Larger Interlock



INVIVO₂ 400
Our Most Popular Workstation



INVIVO₂ 500
Facilitates Transfer of Small Equipment



INVIVO₂ 1000
Dual Chambers - the Best Choice for Large Labs



HI-TIVE
Hypoxia Investigations - Total In Vitro Environment
Our Most Advanced Workstation
Imaging ready system, also features HEPA filtration



Gas Mixer Q
Standard on all INVIVO₂
Workstations
(Integrated on HI-TIVE)

For more information contact:

Ruskinn Technology Ltd
Suite 3 Technium Digital, Sony Technology Centre,
Pencoed CF35 5HZ, UK
Tel: +44 (0) 1656 868540 • Fax: +44 (0) 1656 868541
www.ruskinn.com • sales@ruskinn.com

Distributed by:

Reveal Cellular Pathways

INVIVO₂ 400 Hypoxia Workstation

The Ruskinn range of hypoxia workstations has been designed to replicate low oxygen “in vivo” physiology providing the ideal research platform for cell biologists and cancer researchers.

↻ **Optimum Working Capacity using Minimum Bench Space**
470 x 90mm plate capacity

↻ **Rapid Sample Transfer**
Interlock transfers 39 x 90mm plates in 45 seconds

↻ **Direct-Hand Access into Workstation**
Using convenient cuff & sleeve system (Ezee Sleeve™)

↻ **Low Gas Consumption**
Designed to work with Nitrogen for economical running costs

↻ **Safe Working Environment**
VOC filtration tested and validated

↻ **Accurate Oxygen Control**
Oxygen stability from 0.0% (anoxia) to 20.9% (ambient) in 0.1% increments with one touch sensor calibration

↻ **Accurate CO₂ Control**
CO₂ stability from 0.0% to 30.0% in 0.1% increments

↻ **Cycle Programming**
Allows a user-defined timed sequence of up to 4 different O₂ and CO₂ concentrations

↻ **Accurate Temperature Control**
Incubation control from Ambient + 5°C to 45°C

↻ **Accurate Humidity Control**
Option of ultrasonic humidity system to give precise environmental control

Product Specifications

Workstation Fabrication

- Solvent Bonded Acrylic

Bench Space Requirements

- Height of Unit (excluding stand) 750mm
- Width of Unit (side to side) 1420mm
- Depth 720mm

Internal Workstation Dimensions

- Height 480mm
- Width 800mm
- Depth 500mm
- Maximum Capacity 620 x 90mm Plates
- Working Capacity 470 x 90mm Plates

Workstation Weight

- Weight approx. 100kg

Interlock Dimensions

- Height 260mm
- Width 120mm
- Depth 280mm
- Maximum Capacity 39 x 90mm Plates

Interlock Cycle Time

- 45 Seconds

Atmosphere Control

- Temperature Ambient + 5°C - 45°C
- Humidity Control Ambient - 85% RH
- O₂ Control 0.0% - 20.9%
- CO₂ Control 0.0% - 30.0%
- Activated Carbon Filtration System

Standard Accessories

Workstation

- Gas Mixer Q
- Removable Front Panel
- Internal Mains Socket
- Single Plate Entry System
- Direct-hand Access using Ezee Sleeve™ System
- Detox Sachet
- Energy Saving Fluorescent Lamp
- Internal Halogen Spot Lamp
- 3 Petri Dish Holders
- 1 Wire Rack

Gas Control Software

- USB Communications Port
- 7 Days Continuous Storage of Event Log Data
- One Touch Calibration (O₂)
- On-Screen Fault Assistance
- Cycle Programming

Alarms

- Temperature - Visual and Audible
- Humidity - Visual
- Gas Low Pressure - Visual and Audible

Optional Accessories

- Cable Gland Port
- Vacuum Line Port
- Gas Sample Port
- Ultrasonic Humidification System
- Workstation Stand
- Catalyst Sachet
- Anaerobic Indicator Strips
- Gas Tank Regulators
- Gas Tank Filter Modules
- Power Failure Back up System
- Data Logging Connection

Gas Supply

- Up to 4 Separate Cylinders: H₂/N₂; CO₂; N₂; Air

INVIVO₂ 400

Hypoxia Workstation

The Ruskinn brand was founded in 1993 and rapidly became established as one of the world's leading suppliers and manufacturers of anaerobic and modified atmosphere workstations. Ruskinn's purpose built factory is located within the Sony Technology Centre near Pencoed in South Wales, UK. Ruskinn's range of high quality workstations is available worldwide through a global network of carefully selected distributors.



INVIVO₂ 200
Your Personal Workstation



INVIVO₂ 300
Compact Workstation - Larger Interlock



INVIVO₂ 400
Our Most Popular
Workstation



INVIVO₂ 500
Facilitates Transfer of Small Equipment



INVIVO₂ 1000
Dual Chambers - the Best Choice for Large Labs



HI-TIVE
Hypoxia Investigations - Total In Vitro Environment
Our Most Advanced Workstation
Imaging ready system, also features HEPA filtration



Gas Mixer Q
Standard on all INVIVO₂
Workstations
(Integrated on HI-TIVE)

For more information contact:

Ruskinn Technology Ltd
Suite 3 Technium Digital, Sony Technology Centre,
Pencoed CF35 5HZ, UK
Tel: +44 (0) 1656 868540 • Fax: +44 (0) 1656 868541
www.ruskinn.com • sales@ruskinn.com

Distributed by:

Reveal Cellular Pathways

INVIVO₂ 500 Hypoxia Workstation

The Ruskinn range of hypoxia workstations has been designed to replicate low oxygen “in vivo” physiology providing the ideal research platform for cell biologists and cancer researchers.

↻ **Optimum Working Capacity using Minimum Bench Space**
440 x 90mm plate capacity

↻ **Rapid Sample Transfer**
Interlock transfers 78 x 90mm plates in 3.5 minutes

↻ **Direct-Hand Access into Workstation**
Using convenient cuff & sleeve system (Ezee Sleeve™)

↻ **Low Gas Consumption**
Designed to work with Nitrogen for economical running costs

↻ **Safe Working Environment**
VOC filtration tested and validated

↻ **Accurate Oxygen Control**
Oxygen stability from 0.0% (anoxia) to 20.9% (ambient) in 0.1% increments with one touch sensor calibration

↻ **Accurate CO₂ Control**
CO₂ stability from 0.0% to 30.0% in 0.1% increments

↻ **Cycle Programming**
Allows a user-defined timed sequence of up to 4 different O₂ and CO₂ concentrations

↻ **Accurate Temperature Control**
Incubation control from Ambient + 5°C to 45°C

↻ **Accurate Humidity Control**
Option of ultrasonic humidity system to give precise environmental control

↻ **Imaging Ready**
Please ask about imaging options

innovation in incubation

Product Specifications

Workstation Fabrication

- Solvent Bonded Acrylic

Bench Space Requirements

- Height of Unit (excluding stand) 750mm
- Width of Unit (side to side) 1720mm
- Depth 720mm

Internal Workstation Dimensions

- Height 480mm
- Width 800mm
- Depth 500mm
- Maximum Capacity 600 x 90mm Plates
- Working Capacity 440 x 90mm Plates

Workstation Weight

- Weight approx. 140kg

Interlock Dimensions

- Height 300mm
- Width 320mm
- Depth 300mm
- Maximum Capacity 78 x 90mm Plates

Interlock Cycle Time

- 3.5 Minutes

Atmosphere Control

- Temperature Ambient + 5°C - 45°C
- Humidity Control Ambient - 85% RH
- O₂ Control 0.0% - 20.9%
- CO₂ Control 0.0% - 30.0%
- Activated Carbon Filtration System

Standard Accessories

Workstation

- Gas Mixer Q
- Removable Front Panel
- Internal Mains Socket
- Single Plate Entry System
- Direct-hand Access using Ezee Sleeve™ System
- Detox Sachet
- Energy Saving Fluorescent Lamp
- Internal Halogen Spot Lamp
- 5 Petri Dish Holders
- 1 Wire Rack

Gas Control Software

- USB Communications Port
- 7 Days Continuous Storage of Event Log Data
- One Touch Calibration (O₂)
- On-Screen Fault Assistance
- Cycle Programming

Alarms

- Temperature - Visual and Audible
- Humidity - Visual
- Gas Low Pressure - Visual and Audible

Optional Accessories

- Cable Gland Port
- Vacuum Line Port
- Gas Sample Port
- Ultrasonic Humidification System
- Workstation Stand
- Catalyst Sachet
- Anaerobic Indicator Strips
- Gas Tank Regulators
- Gas Tank Filter Modules
- Data Logging Connection

Gas Supply

- Up to 4 Separate Cylinders: H₂/N₂; CO₂; N₂; Air

INVIVO₂ 500

Hypoxia Workstation

The Ruskinn brand was founded in 1993 and rapidly became established as one of the world's leading suppliers and manufacturers of anaerobic and modified atmosphere workstations. Ruskinn's purpose built factory is located within the Sony Technology Centre near Pencoed in South Wales, UK. Ruskinn's range of high quality workstations is available worldwide through a global network of carefully selected distributors.



INVIVO₂ 200
Your Personal Workstation



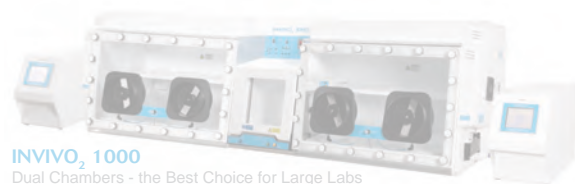
INVIVO₂ 300
Compact Workstation - Larger Interlock



INVIVO₂ 400
Our Most Popular Workstation



INVIVO₂ 500
Facilitates Transfer of Small Equipment



INVIVO₂ 1000
Dual Chambers - the Best Choice for Large Labs



HI-TIVE
Hypoxia Investigations - Total In Vitro Environment
Our Most Advanced Workstation
Imaging ready system, also features HEPA filtration



Gas Mixer Q
Standard on all INVIVO₂
Workstations
(Integrated on HI-TIVE)

For more information contact:

Ruskinn Technology Ltd
Suite 3 Technium Digital, Sony Technology Centre,
Pencoed CF35 5HZ, UK
Tel: +44 (0) 1656 868540 • Fax: +44 (0) 1656 868541
www.ruskinn.com • sales@ruskinn.com

Distributed by:

Reveal Cellular Pathways

INVIVO₂ 1000 Hypoxia Workstation

The Ruskinn range of hypoxia workstations has been designed to replicate low oxygen “in vivo” physiology providing the ideal research platform for cell biologists and cancer researchers.

Two Independent Environments

Features two work chambers, each with its own Gas Mixer Q to allow independent control of O₂, CO₂, temperature and humidity

Optimum Working Capacity using Minimum Bench Space

890 x 90mm plate capacity (445 per work chamber)

Rapid Sample Transfer

Interlock transfers 78 x 90mm plates in 3.5 minutes

Direct-Hand Access into Workstation

Using convenient cuff & sleeve system (Ezee Sleeve™)

Low Gas Consumption

Designed to work with Nitrogen for economical running costs

Safe Working Environment

VOC filtration tested and validated

Accurate Oxygen Control

Oxygen stability from 0.0% (anoxia) to 20.9% (ambient) in 0.1% increments with one touch sensor calibration

Accurate CO₂ Control

CO₂ stability from 0.0% to 30.0% in 0.1% increments

Cycle Programming

Allows a user-defined timed sequence of up to 4 different O₂ and CO₂ concentrations

Accurate Temperature Control

Incubation control from Ambient + 5°C to 45°C

Accurate Humidity Control

Option of ultrasonic humidity system to give precise environmental control and low contamination risk

Imaging Ready

Please ask about imaging options

innovation in incubation

Product Specifications

Workstation Fabrication

- Solvent Bonded Acrylic

Bench Space Requirements

- Height of Unit (excluding stand) 780mm
- Width of Unit (side to side) 3000mm
- Depth 720mm

Internal Workstation Dimensions

- Height 480mm
- Width 800mm
- Depth 500mm
- Maximum Capacity 1200 x 90mm Plates
(600 per work chamber)
- Working Capacity 890 x 90mm Plates
(445 per work chamber)

Workstation Weight

- Weight approx. 200kg

Interlock Dimensions

- Height 300mm
- Width 320mm
- Depth 300mm
- Maximum Capacity 78 x 90mm Plates

Interlock Cycle Time

- 3.5 Minutes

Atmosphere Control

- Temperature Ambient + 5°C - 45°C
- Humidity Control Ambient - 85% RH
- O₂ Control 0.0% - 20.9%
- CO₂ Control 0.0% - 30.0%
- Activated Carbon Filtration System

Standard Accessories

Workstation

- Gas Mixer Q
- Removable Front Panel
- Internal Mains Socket
- Single Plate Entry System
- Direct-hand Access using Ezee Sleeve™ System
- Detox Sachet
- Energy Saving Fluorescent Lamp
- Internal Halogen Spot Lamp
- 10 Petri Dish Holders
- 2 Wire Racks

Gas Control Software

- USB Communications Port
- 7 Days Continuous Storage of Event Log Data
- One Touch Calibration (O₂)
- On-Screen Fault Assistance
- Cycle Programming

Alarms

- Temperature - Visual and Audible
- Humidity - Visual
- Gas Low Pressure - Visual and Audible

Optional Accessories

- Cable Gland Port
- Vacuum Line Port
- Gas Sample Port
- Ultrasonic Humidification System
- Workstation Stand
- Catalyst Sachet
- Anaerobic Indicator Strips
- Gas Tank Regulators
- Gas Tank Filter Modules
- Data Logging Connection

Gas Supply

- Up to 4 Separate Cylinders: H₂/N₂; CO₂; N₂; Air

INVIVO₂ 1000

Hypoxia Workstation

The Ruskinn brand was founded in 1993 and rapidly became established as one of the world's leading suppliers and manufacturers of anaerobic and modified atmosphere workstations. Ruskinn's purpose built factory is located within the Sony Technology Centre near Pencoed in South Wales, UK. Ruskinn's range of high quality workstations is available worldwide through a global network of carefully selected distributors.



INVIVO₂ 200
Your Personal Workstation



INVIVO₂ 300
Compact Workstation - Larger Interlock



INVIVO₂ 400
Our Most Popular Workstation



INVIVO₂ 500
Facilitates Transfer of Small Equipment



INVIVO₂ 1000
Dual Chambers - the Best Choice for Large Labs



HI-TIVE
Hypoxia Investigations - Total In Vitro Environment
Our Most Advanced Workstation
Imaging ready system, also features HEPA filtration



Gas Mixer Q
Standard on all INVIVO₂
Workstations
(Integrated on HI-TIVE)

For more information contact:

Ruskinn Technology Ltd
Suite 3 Technium Digital, Sony Technology Centre,
Pencoed CF35 5HZ, UK
Tel: +44 (0) 1656 868540 • Fax: +44 (0) 1656 868541
www.ruskinn.com • sales@ruskinn.com

Distributed by:

Reveal Cellular Pathways

HI-TIVE Hypoxia Investigations - Total In Vitro Environment Hypoxia Workstation

The Ruskinn range of hypoxia workstations has been designed to replicate low oxygen “in vivo” physiology providing the ideal research platform for cell biologists and cancer researchers.

↻ **Direct-Hand Access into Workstation**

Using convenient cuff & sleeve system (Ezee Sleeve™)

↻ **Heated Interlock**

Quickly equilibrates to same atmosphere as main chamber

↻ **Low Gas Consumption**

Designed to work with Nitrogen for economical running costs

↻ **Safe Working Environment**

VOC filtration tested and validated plus HEPA filtration and optional filtered exhaust valves

↻ **Accurate Oxygen Control**

Oxygen stability from 0.0% (anoxia) to 20.9% (ambient) in 0.1% increments with one touch sensor calibration

↻ **Accurate CO₂ Control**

CO₂ stability from 0.0% to 30.0% in 0.1% increments

↻ **Cycle Programming**

Allows a user-defined timed sequence of up to 4 different O₂ and CO₂ concentrations

↻ **Accurate Temperature Control**

Incubation control from Ambient + 5°C to 45°C

↻ **Accurate Humidity Control**

Ultrasonic humidity system to give precise environmental control

↻ **Imaging Ready**

Please ask about imaging options

innovation in incubation

Product Specifications

Workstation Fabrication

- Solvent Bonded Acrylic

Bench Space Requirements

- Height of Unit (excluding stand) 1024mm
- Width of Unit (side to side) 1650mm
- Depth 760mm
(additional 150mm required behind workstation for piping)

Internal Workstation Dimensions

- Height 590mm
- Width 1174mm
- Depth 570mm

Workstation Weight

- Weight approx. 230kg

Interlock Dimensions

- Height 210mm
- Width 270mm
- Depth 200mm
- Maximum Capacity 66 x 90mm Plates

Atmosphere Control

- Temperature Ambient + 5°C - 45°C
- Humidity Control Ambient - 85%
- O₂ Control 0.0% - 20.9%
- CO₂ Control 0.0% - 30.0%
- Activated Carbon Filtration System
- Integrated HEPA Filtration System

Standard Accessories

Workstation

- Integrated Gas Mixer Q
- Removable Front Panel with UV Filtration
- Direct-hand Access using Ezee Sleeve™ System
- Detox Sachet
- Workstation Stand
- 2 Racks with Perforated Shelves to Optimise Homogeneity
- Waste Trays
- Gas Tight Waste Port

Gas Control Software

- USB Communications Port
- 7 Days Continuous Storage of Event Log Data
- One Touch Calibration (O₂)
- On-Screen Fault Assistance
- Cycle Programming

Alarms

- Temperature - Visual and Audible
- Humidity - Visual
- Gas Low Pressure - Visual and Audible

Optional Accessories

- Cable Gland Port
- Vacuum Line Port
- Gas Sample Port
- Catalyst Sachet
- Anaerobic Indicator Strips
- Gas Tank Regulators
- Gas Tank Filter Modules
- Data Logging Connection
- Remote Monitoring
- Internal Mains Socket (up to 3)

Gas Supply

- Up to 4 Separate Cylinders: H₂/N₂; CO₂; N₂; Air

HI-TIVE

Hi-TIVE Hypoxia Investigations - Total In Vitro Environment

Hypoxia Workstation

The Ruskinn brand was founded in 1993 and rapidly became established as one of the world's leading suppliers and manufacturers of anaerobic and modified atmosphere workstations. Ruskinn's purpose built factory is located within the Sony Technology Centre near Pencoed in South Wales, UK. Ruskinn's range of high quality workstations is available worldwide through a global network of carefully selected distributors.



INVIVO₂ 200
Your Personal Workstation



INVIVO₂ 300
Compact Workstation - Larger Interlock



INVIVO₂ 400
Our Most Popular Workstation



INVIVO₂ 500
Facilitates Transfer of Small Equipment



INVIVO₂ 1000
Dual Chambers - the Best Choice for Large Labs



HI-TIVE
Hypoxia Investigations - Total In Vitro Environment
Our Most Advanced Workstation
Imaging ready system, also features HEPA filtration



Gas Mixer Q
Standard on all INVIVO₂ Workstations
(Integrated on HI-TIVE)

For more information contact:

Ruskinn Technology Ltd
Suite 3 Technium Digital, Sony Technology Centre,
Pencoed CF35 5HZ, UK
Tel: +44 (0) 1656 868540 • Fax: +44 (0) 1656 868541
www.ruskinn.com • sales@ruskinn.com

Distributed by:

Upgrade Your INVIVO₂

GAS MIXER Q

Advanced Gas Mixing System

Retro-fit your existing Ruskinn INVIVO₂ Hypoxia Workstation with the advanced Gas Mixer Q*

*Applies to Workstations installed prior to April 2008



↳ **Improved Oxygen Control**

Oxygen stability from 0.0% (anoxia) to 20.9% (ambient) in 0.1% increments

↳ **Now - Accurate CO₂ Control**

CO₂ stability from 0.0% to 30.0% in 0.1% increments

↳ **Set and Actual O₂ and CO₂ Values**

Actual O₂ and CO₂ values are displayed to 2 decimal points for improved accuracy

↳ **One Touch Calibration**

Simplified calibration process - O₂ sensor can be calibrated at any time by single touch screen command, even when chamber is in use

↳ **Cycle Programming**

Allows a user-defined timed sequence of up to 4 different O₂ and CO₂ concentrations - ideal for conditioning, profiling episodic hypoxia and chronic hypoxia studies

↳ **Communications Port**

Facilitates download of date, time, O₂% and CO₂% values to PC / memory stick for recording important events and diagnostics

↳ **Touch Screen Interface**

Improved ease of use

↳ **Rapid Equilibration**

Faster chamber-to-setpoint equilibration time provides for more rapid atmosphere changes

Product Specifications

Bench Space Requirements

- Height of Unit (excluding stand) 405mm
- Width of Unit (side to side) 260mm
- Depth 590mm

Gas Mixer Q Weight

- Weight approx. 10kg

Optional Accessories

- Gas Tank Regulators
- Gas Tank Filter Modules

Alarms

- Gas Low Pressure - Visual and Audible

Gas Supply

- Up to 4 Separate Cylinders: H₂/N₂; CO₂; N₂; Air

What can the new Q do that the old gas mixer won't do?

| | New Q | Old Mixer |
|--|-------|-----------|
| Controls O ₂ from 0.0% to 20.9% | Yes | Yes |
| Controls CO ₂ from 0.0% to 30.0% | Yes | No |
| Displays actual O ₂ and CO ₂ values to two decimal places for improved accuracy | Yes | No |
| Automatically calibrates O ₂ sensor through touch screen control | Yes | No |
| Records date, time, O ₂ % and CO ₂ % values for download to memory stick / PC | Yes | No |
| Allows hypoxic cycling, facilitating up to 4 different O ₂ and CO ₂ concentrations through a user input sequence of time | Yes | No |
| Provides touch screen control | Yes | No |
| Features very rapid pull-down times | Yes | No |

GAS MIXER Q

Advanced Gas Mixing System

The Ruskinn brand was founded in 1993 and rapidly became established as one of the world's leading suppliers and manufacturers of anaerobic and modified atmosphere workstations. Ruskinn's purpose built factory is located within the Sony Technology Centre near Pencoed in South Wales, UK. Ruskinn's range of high quality workstations is available worldwide through a global network of carefully selected distributors.



INVIVO₂ 200
Your Personal Workstation



INVIVO₂ 300
Compact Workstation - Larger Interlock



INVIVO₂ 400
Our Most Popular Workstation



INVIVO₂ 500
Facilitates Transfer of Small Equipment



INVIVO₂ 1000
Dual Chambers - the Best Choice for Large Labs



HI-TIVE
Hypoxia Investigations - Total In Vitro Environment
Our Most Advanced Workstation
imaging ready system, also features HEPA filtration



Gas Mixer Q
Standard on all INVIVO₂
Workstations
(Integrated on HI-TIVE)

For more information contact:

Ruskinn Technology Ltd
Suite 3 Technium Digital, Sony Technology Centre,
Pencoed CF35 5HZ, UK
Tel: +44 (0) 1656 868540 • Fax: +44 (0) 1656 868541
www.ruskinn.com • sales@ruskinn.com

Distributed by:

PRODUCT SPECIFICATION SUMMARY

Hypoxia Workstations

| Model | | INVIVO ₂ 200 | INVIVO ₂ 300 | INVIVO ₂ 400 | INVIVO ₂ 500 | INVIVO ₂ 1000 | HI-TIVE | Gas Mixer Q |
|---|--------|---|-------------------------|-------------------------|-------------------------|--------------------------|-----------|-------------|
| Bench Space (mm) | Height | 650 mm | 650 mm | 750 mm | 750 mm | 780 mm | 1024 mm | 405 mm |
| | Width | 1100 mm | 1100 mm | 1420 mm | 1720 mm | 3000 mm | 1650 mm | 260 mm |
| | Depth | 660 mm | 660 mm | 720 mm | 720 mm | 720 mm | 760 mm | 590 mm |
| Internal Dimensions (mm) | Height | 420 mm | 420 mm | 480 mm | 480 mm | 480 mm | 590 mm | N/A |
| | Width | 500 mm | 500 mm | 800 mm | 800 mm | 800 mm | 1174 mm | N/A |
| | Depth | 460 mm | 460 mm | 500 mm | 500 mm | 500 mm | 570 mm | N/A |
| Maximum Capacity (90mm plates) | | 300 plates | 270 plates | 620 plates | 600 plates | 1200 plates | N/A | N/A |
| Working Capacity (90mm plates) | | 220 plates | 200 plates | 470 plates | 440 plates | 890 plates | N/A | N/A |
| Weight (kg) | | 65 kg | 75 kg | 100 kg | 140 kg | 200 kg | 230 kg | 10 kg |
| Interlock Dimensions (mm) | Height | 200 mm | 200 mm | 260 mm | 300 mm | 300 mm | 210 mm | N/A |
| | Width | 100 mm | 150 mm | 120 mm | 320 mm | 320 mm | 270 mm | N/A |
| | Depth | 100 mm | 230 mm | 280 mm | 300 mm | 300 mm | 200 mm | N/A |
| Interlock Capacity (90mm plates) | | 10 plates | 18 plates | 39 plates | 78 plates | 78 plates | 66 plates | N/A |
| Interlock Cycle Time | | 15 sec | 35 sec | 45 sec | 3.5 min | 3.5 min | N/A | N/A |
| Interlock Door Operation | | Manual | Manual | Manual | Automated | Automated | Manual | N/A |
| Activated Carbon Filtration System | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A |
| HEPA Filtration System | | N/A | N/A | N/A | N/A | N/A | ✓ | N/A |
| Gas Mixer Q | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A |
| O ₂ Control 0.0% - 20.9% | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| CO ₂ Control 0.0% - 30.0% | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| USB Communications Port | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 7 Day Continuous Data Storage | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| One Touch Calibration (O ₂) | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| On-Screen Fault Assistance | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Cycle Programming | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| UV Filtration Screen | | N/A | N/A | N/A | N/A | N/A | ✓ | N/A |
| Removable Front | | N/A | N/A | ✓ | ✓ | ✓ | ✓ | N/A |
| Internal Mains Socket | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A |
| Single Plate Entry System | | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |
| Ezee™ Sleeve Bare-hand Access | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A |
| Petri Dish Holders | | 3 holders | 3 holders | 3 holders | 5 holders | 10 holders | 0 | N/A |
| Racks | | N/A | N/A | 1 wire | 1 wire | 2 wire | 2 acrylic | N/A |
| Energy Saving Fluorescent Illumination | | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |
| Inspection Spotlamp | | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | N/A |
| Waste Trays | | N/A | N/A | N/A | N/A | N/A | ✓ | N/A |
| Gas Tight Waste Port | | N/A | N/A | N/A | N/A | N/A | ✓ | N/A |
| Alarms (Gas / Temperature / Humidity) | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Cable Gland Port | | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Vacuum Line Port | | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Gas Sample Port | | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Automated Humidity Control | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A |
| Ultrasonic Humidity Control | | 0 | 0 | 0 | 0 | 0 | ✓ | N/A |
| Workstation Stand | | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Palladium Catalyst | | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Anaerobic Indicator Strips | | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Gas Tank Regulators | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gas Tank Filter Modules | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Remote Monitoring | | N/A | N/A | N/A | N/A | N/A | ✓ | N/A |
| Power Failure Back Up System | | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Data Logging Connection | | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Fabrication: | | Solvent Bonded Acrylic | | | | | | |
| Temperature Control | | Ambient + 5°C to 45°C | | | | | | |
| Humidity Control | | Ambient to 85% | | | | | | |
| Gas Supply | | Up to 4 Separate Cylinders: H ₂ /N ₂ ; CO ₂ ; N ₂ ; Air | | | | | | |

✓ Standard

0 Optional

N/A Not Applicable

The Ruskinn brand was founded in 1993 and rapidly became established as one of the world's leading suppliers and manufacturers of anaerobic and modified atmosphere workstations. Ruskinn's purpose built factory is located within the Sony Technology Centre near Pencoed in South Wales, UK. Ruskinn's range of high quality workstations is available worldwide through a global network of carefully selected distributors.



Ruskin Technology Ltd
Suite 3 Technium Digital
Sony Technology Centre
Bridgend CF35 5HZ

Tel: +44 (0) 1656 868 540
Fax: +44 (0) 1656 868 541
Email: sales@ruskinn.com
www.ruskinn.com