

# Belle Technology Dry & Anaerobic Glove Boxes.

...clear innovation for tomorrow's technology.

**Belle Technology**



# Belle Technology

Clear Innovation for Tomorrows Technology

## Belle Technology UK Ltd

Established in 1993, Belle Technology manufactures the Modular Range of Anaerobic & Dry Glove Box Systems for the purpose of enabling and maintaining a pure inert atmosphere inside a hermetically-sealed enclosure, supplying Scientific Institutions and Industries worldwide.

A number of accessories are available for use with the Modular Range, these include: oxygen monitoring, gas cooling units & purpose-designed refrigeration, microscope modules complete with stereo-microscope and dewar assembly for the direct-freezing of samples. Additionally, stopped-flow instrumentation and other customer specific equipment can be incorporated into the glove box systems.

In July 2009 we moved into a newer and larger factory to continue building our custom deisgned glove boxes. We are based in Weymouth, Dorset which is located on the South Coast of the United Kingdom. We currently supply our products globally, and have an Asia sales agent permanently based in Singapore.

We are constantly updating our products and technology to keep in line with the latest technology, and research methods used. If you have any questions, queries, or comments, please contact us using either the contact page on the website, or email us at [info@belletechnology.co.uk](mailto:info@belletechnology.co.uk)

Belle Technology UK Ltd.



## Dry & Anaerobic Glove Boxes

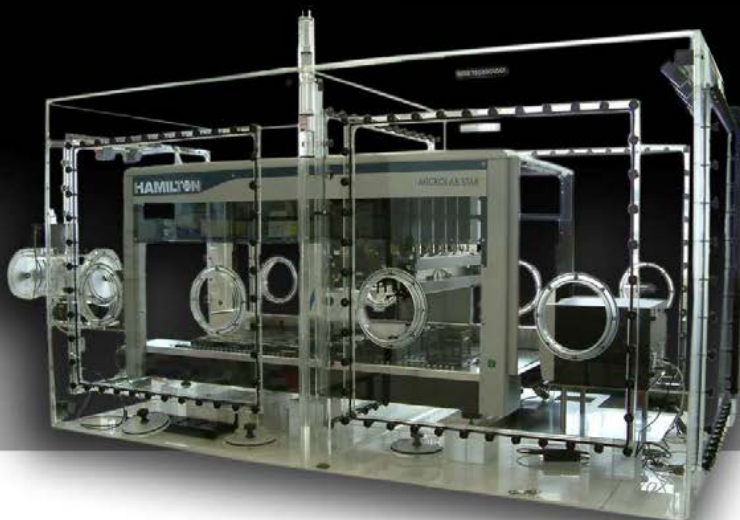
Belle Technology manufacture a Modular range of Anaerobic & Dry Glove Box Systems for the purpose of enabling and maintaining a pure inert atmosphere inside a hermetically-sealed enclosure. We supply Scientific Institutions and Industries worldwide.

### Standard Features

- Clear acrylic construction
- Configuration to meet individual requirements
- Crystallography options
- Easy installation
- Maintain atmospheres of <1ppm oxygen
- Maintain atmospheres of <2ppm moisture
- Stand-alone gas purifying recirculation units
- Independent regeneration system
- Fast, reliable servicing



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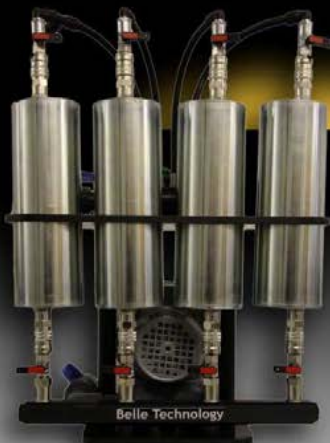


## Advantages

- Designed for maximum visibility inside the box,
- Designed using high grade acrylic to offer superior strength and optical advantage.
- Modular construction
- Built to suit your individual requirements
- Ease of interfacing to external equipment
- Extended life
- Minimal gas usage
- Internal lighting not required
- Affordable pricing

## Support

- Dedicated and experienced support team
- Installation and field support available



C4/EGPR (UK)



## Gas Purifying Systems

Belle Technology design and manufacture stand-alone recirculation units that supply a fast response to any oxygen and/or moisture intrusion.

We are able to specifically design each model to individual client requirements.

### C4/EGPR (UK) - Recirculator System

- Stand alone unit depth 300mm x width 480mm x height 660mm
- Powered by 50Hz 230V 0.2Kw AC Motor
- Gas inlet manifold  
Fitted with particulate filter x 4

### C4 - Cartridges

Removable stainless steel cartridges filled with oxygen removing catalyst and/or moisture removing molecular sieve.



CRS6 (UK)

## Regeneration Systems

We design and build Regeneration Systems that independently activate the depleted catalyst and molecular sieve cartridges for use with Glove Box systems.

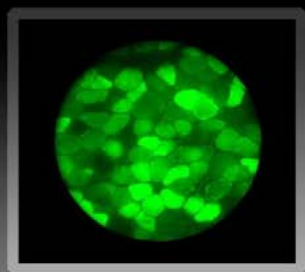
### CRS6(UK)

- Epoxy coated steel housing
- Stand-alone unit depth 250mm x width 270mm x height 720mm
- Cartridge heated band 1750W 230V with built-in temperature sensor
- Variable Temperature Controller
- Built-in water cooled condenser
- Quick-release connections for nitrogen purging gas and nitrogen/hydrogen regeneration gas





Steromicroscope (Modular)



## Primary Components

Belle Technology are able to build custom modules to your exact requirement, enabling equipment to fit directly into the glove box, creating easy access when in use.

Examples include; microscope module complete with stereo-microscope and Dewar for the direct-freezing of samples into liquid nitrogen, stopped-flow instrumentation FTIR, IR, UV Vis spectroscopy, together with client specific equipment.

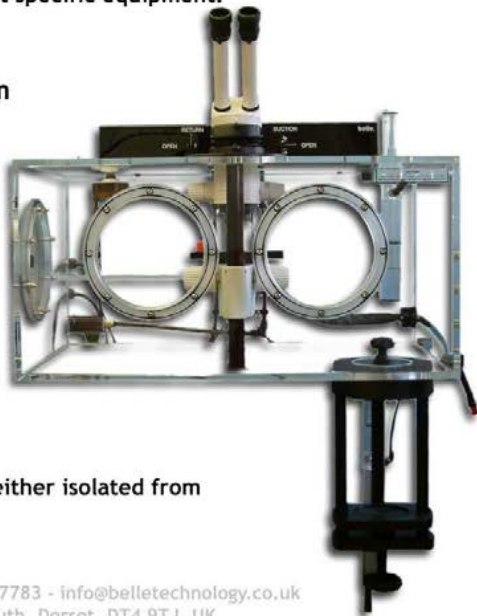
### Stereo-microscope and Dewar System

- MZ6 Stereo-microscope
- Dewar Container Housing
- Two standard 200mm glove ports

#### Options available

- Digital Camera / Video system available for use with this system
- Butyl Gloves available for use with this component.

Microscope box (MRMSB) can be operated either isolated from or combined with the main box.



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O2M3 Meter(UK)



SNS-1 Sensor (UK)

## Oxygen Monitoring System

### Oxygen Meter - O2M-3

- Black acrylic housing
- Stand-alone unit depth 100mm x width 200mm x height 80mm
- 9V dc universal mains power supply
- Digital Display
- Monitors gaseous concentrations of oxygen in the 0-117 parts per million range
- Pre-calibrated to working temperatures of 20 °C
- Zero and Gain adjustment facility for calibration
- Please contact us for individual requirements.

### Oxygen Sensor - SNS-1

- Self-powered, diffusion limited, metal-air battery type
- Primary sensitivity - direct ppm O<sub>2</sub> by volume
- Range - 0 to 50 ppm
- Operating temperature range continuous -15 °C to 40 °C /intermittent -15 °C to 55 °C
- Operating pressure range - ambient ± 10%
- Effect of operating pressure on accuracy - 0.011% S/mBar
- Operating relative humidity range - 0-99% RH non condensing
- Accuracy - sensor follows changes in O<sub>2</sub> concentration due to changes in RH
- Position sensitivity - none
- Electrical connection by 50Ω BNC connector
- Linearity - linear over range of sensor



BMF/325 (UK)



Internal Cooler Head



## Glove Box Accessories

Belle Technology supply a full range of Gloves; manufactured from Neoprene, Butyl, and Hypalon. Glove attachment tape and replacement seal kits also available. For all other equipment please contact us for more information.

### Refrigerator - BMF/325

- External Length 288mm x Width 267mm including back cover x Height 395mm
- Internal Dimensions Length 225mm x Width 160mm x Height 210mm
- The unit stores 14 (2x7) standard tissue culture trays (Limbo style)
- Maintains an internal temperature of -3 to -5° C



### Gloves

- Butyl / Hypalon / Neoprene
- Gauntlet gloves length 750mm, 0.6mm thick
- Various material, sizes, and lengths available

Cotton glove inserts also available

### Moisture Meter DS2000

A complete on-line solution for continuous measurement of dewpoint in process gas and compressed air, offering powerful functionality via a simple interface. Accuracy within  $\pm 2^{\circ}\text{C}$  Dewpoint / Automatic Calibration / 2 Programmable Alarms



## After Sales Support

Belle Technology offer full technical diagnostic support and service for all Glove Box systems and supporting accessories previously supplied by Belle Technology. We can also provide agreed annual maintenance contracts.

For more information on our maintenance contract and service programmes please contact us.





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