

## Bioquell | ICE-pod

### Infection control enclosure for a safer patient environment

- **Designed to limit the spread of pathogens in ward environments**
- **Visibility of an open bay with benefits of single bed spaces**
- **Tailored to each bed space to maximise patient care area**
- **Facilitates decontamination with Bioquell hydrogen peroxide vapour (HPV) technology in under 1 hour**

The Bioquell ICE-pod has been developed to help healthcare workers control outbreaks and manage patients who are known/suspected to be infected or colonised with a pathogen. Tailored to an individual bed space, each enclosure maximises the patient care area whilst taking into account gantries, trunking and other ward-specific services. It is a temporary structure that can be erected rapidly and, by providing additional single occupancy areas, it helps to increase the flexibility of the hospital.

The design, materials and lighting of the Bioquell ICE-pod have been specified to give a modern look whilst creating a pleasant environment for patients. Each enclosure has large, transparent windows to offer visibility for staff and the occupant, with opaque lower level panels to reinforce the sense of a private patient room. To enable full privacy, the Bioquell ICE-pod also incorporates rails specified to fit standard hospital curtains. An alcohol hand rub dispenser, gloves and gowning materials are mounted on the front fascia, helping to facilitate good hand hygiene and infection control practices.



To provide air circulation, a roof-mounted HEPA filtration air handling unit is provided. It can be used in conjunction with the Bioquell ICE-pod's bi-folding doors to provide a negative pressure environment that limits the egress of potentially contaminated air when housing infected patients.

The Bioquell ICE-pod has also been designed with a rapidly deployable gas-tight seal. This permits high-level bio-decontamination using HPV technology to be performed safely in under one hour.

#### The Bioquell ICE-pod is provided as a service that offers:

- Scanning and 3-D visualisation
- Consultancy regarding positioning and dimensions of Bioquell ICE-pods
- Rapid installation and integrity testing
- Development and tailoring of Bioquell ICE-pod usage protocols
- Continued integration with key hospital departments and orientation of ward staff
- Servicing and maintenance of fan, filter, lighting and ongoing integrity testing
- Visual inspection and replacement of damaged areas

## Technical specification

### Physical and safety data

#### Materials of construction

Anodised aluminium framework  
Seals: silicon (fire rated V0)  
Polycarbonate panels (fire rated Class 1)  
Side panels (upper): 3mm clear  
Side panels (lower): 3mm translucent  
Ceiling panels: 10mm twin wall translucent  
50% white opal

#### Fascias

Polyethylene (fire rated V0)

### Operating data

#### Airflow

8 air-changes/hr (minimum)

#### Noise level

<40 dBA

#### Filters

HEPA H14 99.995% efficiency

### Power data

#### Power supply

100-240V AC – 50/60Hz 175W

#### Power consumption

12V LED lighting (up to 600 lumens/m)

12V air handling unit

## Applications

The Bioquell ICE-pod is ideal for use in many infection control applications. It can be deployed to help manage infections and limit ward closures caused by norovirus or it can be used to accommodate patients with suspected or diagnosed *C. difficile*, MRSA or other pathogens.

It can improve the visibility of the patient, compared with placing them in side rooms (especially when the patient is at risk of falling). It can also be used to provide additional bed spaces to enhance the privacy and dignity of patients.

Infected ICU/HDU patients can be 'stepped down' to Bioquell ICE-pods to help reduce the impact of bed-blocking and each enclosure can be used as a negative pressure room for oncology patients requiring inhalation treatment.

The Bioquell ICE-pod system offers a more flexible, lower cost alternative to permanent compartmentalisation of wards and, in certain situations, can be used as additional single sex accommodation.

## Bioquell HPV high-level bio-decontamination

Bioquell ICE-pods are compatible with advanced Bioquell HPV equipment to enable full elimination of pathogens in under 1 hour. This technology has been proven to help bring outbreaks under control and reduce endemic infection rates.

## Options

Bioquell ICE-pods are tailor-made to maximise the internal space and incorporate all patient services, such as oxygen, power and television systems. As such, they are built around the existing bed space.

Each enclosure can be provided without doors and/or the air handling unit on request.

## Practical considerations

Bioquell ICE-pods are designed to minimise the impact on the fabric of the hospital. Manual cleaning can be performed easily and a cleaning protocol, containing time estimates, is available from Bioquell. The servicing of the Bioquell ICE-pod, including the air handling unit, lighting and changing of the air filters is provided by Bioquell.



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