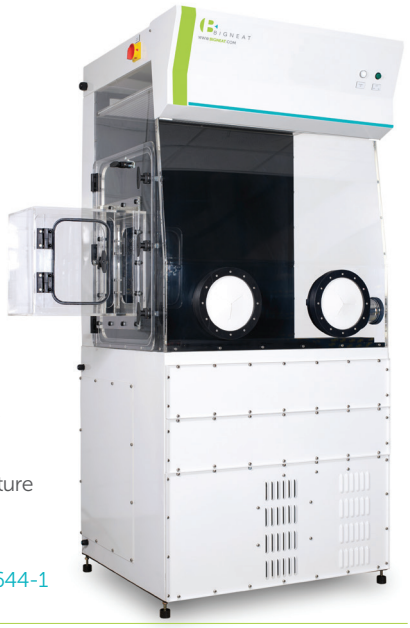
BIGNEAT
A CARON COMPANY

MADE IN BRITIAN

MODEL BCTH

Controlled Environment Enclosures & Cabinets

for operator and sample/process protection



- Controlled Humidity
  30%-85%
- Controlled Temperature
  15°C-40°C
- Clean Air
  ISO Class 5 to EN14644-1

KEY FEATURE

Cabinet can be customised to suit application and specific temperature and humidity range required

APPLICATIONS

- **Containment of drug discovery robotics systems requiring chilling, incubation or set-level stable temperature**
- **Containment of moisture sensitive weighing process equipment and analytical equipment, O2 sensitive procedures**
- **Handling of freeze-dryed samples (reducing hydroscopy)**
- **Material investigations**
- **Powder flow studies**

MORE FEATURES

- **Universal control panel displays status of controlled environment and controls airflow system balance**
- **Audible and visual alarm indication of incorrect conditions**
- **Large range of options, transfer ports and waste management systems**
- **Bigneat enclosures provide excellent visibility of the enclosed system**
- **Sealed cable gland ports**

PROVIDING STABLE CONDITIONS FOR EXPERIMENTATION, TESTING & PRODUCTION

Bigneat's BCTH range of cabinets has been designed following years of practical experience and customer collaboration and is an example of Bigneat's innovation in enclosure design & technology.

BCTH cabinets offer a controlled temperature and humidity environment with the option of HEPA filtration for sterile air. It provides the user with the highest quality stable environment at all times irrespective of fluctuations in the surrounding laboratory environment.

BCTH uses a recirculatory air flow system to provide environmentally controlled air to the work surface ensuring sample/process protection.

Manipulation within the enclosure is through iris arm ports.

Roxtec sealed gland ports

Tubing and cabling

Transfer hatch

BIGNEAT A CARON COMPANY t: +44 (0)23 92 266400 e: info@bigneat.com w: www.bigneat.com

IMPROVE RELIABILITY, IMPROVE PRODUCTIVITY, IMPROVE SAFETY.

Air conditioning unit

STANDARDS

Meeting recognised Standards worldwide

ESSENTIALS

- **High quality construction**
- **Transfer hatch as standard**
- **Universal control panel**
- **Waste port as standard**
- **Levelling lockable feet**

Transfer hatch shown fully open

Side view showing waste port

OPTIONS AND EXTRAS

- **Additional electrical sockets**
- **Carbon filtration**
- **Computer shelf on flexible arm**
- **Ducted systems available**
- **Hydrogen peroxide (or alternative fumigation) connections (night doors, removed for normal operation)**
- **UV lighting, linked to timed on/off facility in control system**
- **Waste chute and waste container**

DESCRIPTION OF BCEE AND BCEEHX ENCLOSURES AND CHAMBERS

Recirculation fan filter system: A roof-mounted recirculatory fan system provides sterile air which protects the contained system, the main fan/blower generates all of the enclosure's internal airstreams.

Conditioning unit: Air distributed within the enclosure is passed through a chilled water/refridgerant conditioning plant to maintain the controlled temperature and humidify. A heating element raises the air temperature when it falls below the set temperature (precision ± 0.5°C). Steam is injected into the airflow from a humidifier unit to maintain the required specification.

Airflow monitoring and control: The enclosure is monitored and controlled by an easy touch control system which manages the air flow. In HX models it also controls gas. An audible alarm warns of low airflow conditions.

Enclosure: Iris ports enable manipulation of materials within the enclosure and a transfer hatch enables transfer of materials into the enclosure and waste out through the side port.

Front picture: This cabinet was supplied to leading pharmaceutical research organisation for manipulation and weighing of moisture sensitive powders.

FILTRATION USED IN BCEE ENCLOSURES

Pre-filtration eliminates particles at 5.0μm or larger to an efficiency of 92% as defined in BS EN ISO 779.

Particulate filtration HEPA filtration (H14 Standard) eliminates particles 0.3μm or larger to an efficiency of 99.995%.

Exhaust air HEPA filtration (H14 Standard) eliminates particles 0.3μm or larger to an efficiency of 99.995%.

Chemcap OS filtration as an option. Carbon filtration removes solvent and acid vapours.

QUALITY ASSURED

Bigneat is accredited to BS EN ISO 9001: 2008

Bigneat systems are CE marked

Bigneat manufactures from UL approved components

Bigneat Limited
4 & 5 Piper's Wood Industrial Park, Waterberry Drive, Waterlooville, Hampshire PO7 7XU UK
t: +44 (0)23 92 266400 f: +44 (0)23 92 263373 e: info@bigneat.com w: www.bigneat.com

BIGNEAT A CARON COMPANY