

## Datasheet



A1-Safetech's ClimateZone containment cabinets provide a safe and climatically controlled environment for compound and drug sample testing.

With operator adjustable temperature and humidity settings on the ClimateZone, it allows for sample tests to be conducted under manageable, pre-determined temperature and humidity profiles.

Specifically designed for applications where temperature and humidity control are essential for results, such as NGI and Anderson Cascade for inhalable product, the ClimateZone offers unrivalled capabilities.

## Features

Designed to provide a mobile climatically controlled environment, the ClimateZone also has many other features which lend it to the pharmaceutical development laboratory:

- Operator selectable temperature and humidity levels  
Temperature 15-35C, Humidity 15-90% RH
- Independent temperature & humidity data logging
- Mobile flexible design allows for customisation to suit client application
- Safe change HEPA filtration ensures safe working environment for operator
- Tested by SafeBridge Consultants for containment capabilities
- Energy saving – no external HVAC system required

Designed for applications such as:

- NGI Inhaler testing
- Anderson Cascade Inhaler testing
- Powder milling
- Handling of hygroscopic compounds
- Particle characterisation

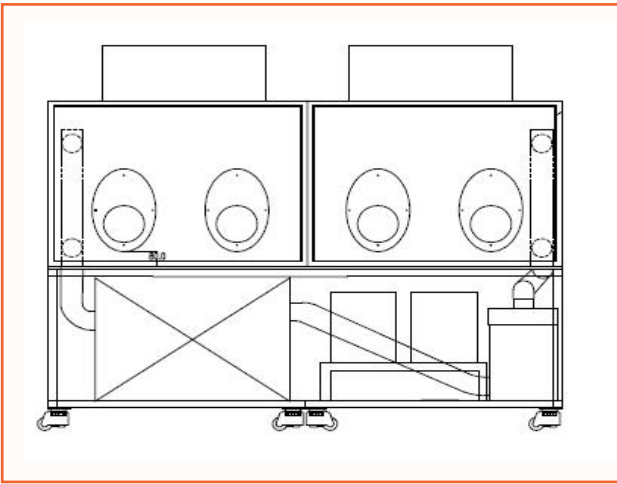
## Custom Built

With SOP's and testing requirements differing between companies, applications and product types; the need for customisation of the ClimateZone can be essential.

With dedicated in-house design team and purpose built manufacturing facilities, A1 Safetech can design a customised ClimateZone to meet any requirements. With project management systems and working closely with our clients, A1 Safetech have successfully met the specialist requirements for many applications.



The hand built air treatment unit sits at the core of the ClimateZone operation, regulating both temperature & humidity.



## Specification

### Specification for Standard Unit:

#### Construction:

- Stainless Steel frame
- Cast acrylic panels
- Trespa chemical resistant worktops

#### Temperature/Humidity Control:

- Temperature range: 15C to 35C  
(User selectable resolution of 0.1C)
- Humidity range: 15%RH to 90%RH  
(User selectable resolution of 1%RH)
- Temperature & Humidity regulated by UKAS calibrated PT100 temperature sensor and capacitive humidity sensor
- Secondary temperature and humidity sensor for data logging and PC download of measurement results

#### Air Filtration

- Safe change bag-out HEPA filter
- Min 99.99% efficiency at 0.3 microns (H13)
- Filter Life of 3 years

#### Air Flow Monitoring

- Hot wire anemometer alarm (Audible & Visual) for low air volume warning

#### Power Requirements

- Requires 3 standard plug sockets for operation (Fan, Alarm & ATU)
- Fourth plug socket required for internal power distribution block (for analytical equipment)
- 230V, 50Hz, 13A sockets required (UK Models)
- 110V, 60Hz, 10A sockets required (US Models)
- 110V, 50Hz, 13A sockets required (Europe Models)