



# Walk In Chamber Product Brochure

*High-performance controlled walk in stability  
storage in a large-scale, energy-efficient  
design.*



# INTRODUCTION

MB3 Technical's Walk-In Chambers deliver precision-controlled stability for large-scale storage and testing environments. Designed for regulated industries, these chambers combine robust construction with advanced environmental control, ensuring compliance and reliability for critical applications.

Ideal for stability studies, environmental conditioning, and accelerated ageing programs, our walk-in solutions serve pharmaceutical, agricultural, manufacturing and horticulture sectors.

This brochure provides an overview of our walk-in chambers and associated services. For further details, please contact us.

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## WHY MB3 TECHNICAL'S WALK-IN CHAMBERS STAND OUT



### Customisable Design

Chambers start from H = 2.1m, W = 2.4m, D = 2.4m, with modular options for expansion.



### Precision Control

Temperature: 20°C – 40°C | Humidity: 20% RH – 80% RH | Validation tolerance  $\pm 2^\circ\text{C}$  /  $\pm 5\%$  RH.



### Regulatory Compliance

Built to meet ICH, GxP, FDA, and stability testing standards.



### Energy Efficiency

Designed for low operating costs and a reduced carbon footprint.



### Flexible & Adaptable Options

Hinged or sliding doors, windows, ramps, specialist lighting, and bespoke shelving.



### Turnkey Delivery

From design and installation to validation and aftercare, delivered through ISO 9001:2015 processes.



## MADE IN BRITAIN

MB3 Technical is proud to be a certified member of Made in Britain, an organisation that champions British manufacturing excellence. This membership is a mark of quality, integrity, and innovation values that are at the heart of everything we do.

As a UK-based company, we design, manufacture, and deliver our walk-in chambers entirely within Britain. Our commitment to local production supports the national economy, reduces environmental impact, and ensures full traceability and compliance across every stage of development.

### What Does This Mean For You?

- ✓ **Trusted British Quality:** Products built to the highest standards of safety, performance, and reliability
- ✓ **Regulatory Confidence:** Full alignment with UK and international compliance frameworks
- ✓ **Sustainable Manufacturing:** Reduced carbon footprint through local sourcing & production
- ✓ **Responsive Support:** UK-based service teams for fast, knowledgeable assistance

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# APPLICATIONS

Walk-In Chambers are engineered for diverse uses across sectors that demand precision, large-scale environmental control:

## Pharmaceutical

Drug stability testing, storage, and accelerated aging studies and biological and long-term storage all requires strict regulatory compliance.



## Agricultural

Our stability cabinets offer long-term storage solution and accelerated microbial testing, meeting FSA and FDA compliance standards.



## Manufacturing

Ideal for environmental testing of components, materials, and finished products in manufacturing settings, ensuring performance under controlled conditions.



## Horticulture

Our portfolio includes reliable chambers for precise seed germination studies, long-term seed storage and accelerated experiments.



## CASE STUDIES

Our walk-in chamber case studies showcase our ability to design and install bespoke environmental solutions that deliver precise temperature and humidity control.

### Preserving Britain's Heritage with Advanced Seed Storage

Delivered a custom seed-storage facility with climate-controlled chambers designed to preserve native plant species and support long-term biodiversity conservation.



### Relocation Seed Store Project

Our team handled, dismantled, packaged, and safely transported a complete storage chamber to its final destination, where a new environmentally controlled seed store was constructed



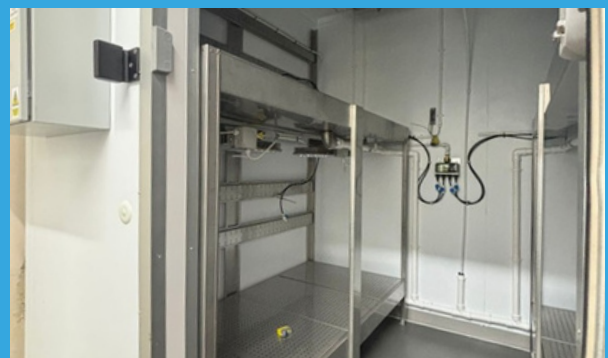
### Rapid deployment of Custom Pharmaceutical Grade Storage Units

Global inspection and certification company required more heavy-duty storage, with units seamlessly integrated into existing operations and a combined capacity of over 25,000 litres.



### Plant Growth Chamber for Horticulture Company

MB3 Technical partnered with a leading horticulture company to deliver a custom growth chamber capable of full-cycle cultivation with precise temperature and lighting control.



## TECHNICAL SPECIFICATIONS

| Category                     | Details                                                                                                          |
|------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Dimensions</b>            | Size range starting at H = 2.1m, W = 2.4m, D = 2.4m                                                              |
| <b>Doors</b>                 | Hinged doors, sliding doors, door windows, threshold ramps                                                       |
| <b>Panel Construction</b>    | 80mm, 100mm, or 120mm insulated panels                                                                           |
| <b>Internal Finish</b>       | White food-safe or stainless-steel panels                                                                        |
| <b>External Finish</b>       | White food-safe panels                                                                                           |
| <b>Environmental Control</b> | Dehumidification, humidity control, temperature control                                                          |
| <b>Shelving</b>              | Stainless steel bespoke shelving                                                                                 |
| <b>Flooring</b>              | Non-slip, checker plate, or hygienic flooring                                                                    |
| <b>Lighting &amp; Safety</b> | Emergency lighting, panic/personnel trapped systems, specialist lighting (e.g. growth chambers, insect breeding) |
| <b>Additional Features</b>   | Anti-lobbies, temperature & humidity monitoring, CCTV, mapping validations, security systems                     |
| <b>Support &amp; Service</b> | Service and spare parts, emergency repairs, warranties                                                           |
| <b>Cooling Systems</b>       | Glycol or gas-based systems                                                                                      |

*\*If it isn't on the list, please ask us*

# TECHNICAL SPECIFICATIONS

| Specification                           |                                                                                                                                                             |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature Range                       | -20°C to 40°C                                                                                                                                               |
| Humidity Range                          | 20%RH – 80%RH                                                                                                                                               |
| Validation Tolerance<br>(Temp/Humidity) | ±2°C / ±5%RH                                                                                                                                                |
| Ambient Tolerance<br>(Chamber/Chiller)  | 15°C – 30°C                                                                                                                                                 |
| Shelving Levels                         | Bespoke can be configured to suit the application                                                                                                           |
| Shelving Material                       | 2b 304 Stainless Steel                                                                                                                                      |
| Dehumidifiers                           | Dependant on Application                                                                                                                                    |
| Coolant System Type                     | Refrigerant gas or glycol                                                                                                                                   |
| Condensate Removal Pump                 | Yes                                                                                                                                                         |
| Data Recording                          | Options Available on Request.                                                                                                                               |
| Alarms<br>(Temp/Humidity/Chiller/etc.)  | High and low temperature, high and low humidity, door open, fan failure, water flood detected, chiller fault, or other issues depending on the application. |

## OPTIONS & ACCESSORIES

### Shelving Flexibility

Additional stainless-steel shelving for diverse product layouts.

### Power

Backup power integration for uninterrupted operation.

### Security

Enhanced door security with electronic lock systems.

### Data Management

Advanced data logging, monitoring, and remote access upgrades are available.

### Compliance Services

Validation, commissioning, and calibration services for compliance integrity.

### Inhouse Construction and Services

Enabling works for chamber installations



# PROJECT SUPPORT & AFTERCARE

## Full-Service Installation

Managed and delivered by our experienced field engineers

## Regulatory-Ready Validation

Complete documentation to support audit and compliance processes

## Maintenance Programs

Scheduled upkeep to sustain performance and extend lifespan

## Swift Service Response

Nationwide coverage for minimal downtime

## Upgrades & Expansions

Flexibility to adapt to changing operational requirements





## CONTACT

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