



# Airflow Range

## BIOMEDICAL PROTECTION

A collection of five systems that includes: a free flow bedding dispenser, a dual access animal transfer station, a bedding disposal unit, a class 2 microbiological safety cabinet, and an air shower.

[SychemFILL](#)

[SychemCHANGE](#)

[SychemWASTE](#)

[SychemAIR](#)

[SychemSAFETY](#)

# SychemFILL



**Bedding dispensers are widely used across animal facilities, delivering several benefits to their users.**

Providing a reduction in manual labour required to fill cages by hand, SychemFILL helps to prevent the potential development of musculoskeletal disorders (MSD).

SychemFILL also prolongs the life of individually ventilated cage (IVC) lid filters, air handling unit filters and room filtration. Further to this, Sychem's Active Airflow Technology protects users from exposure to fine particles generated when filling cages.



## Active Airflow Technology

Protects users from exposure to dust and particles. A reduced fine particle count in the dispensed bedding assists in prolonging the life of individually ventilated cage (IVC) lid filters, air handling unit filters and room filtration.



## Class-Leading Accuracy

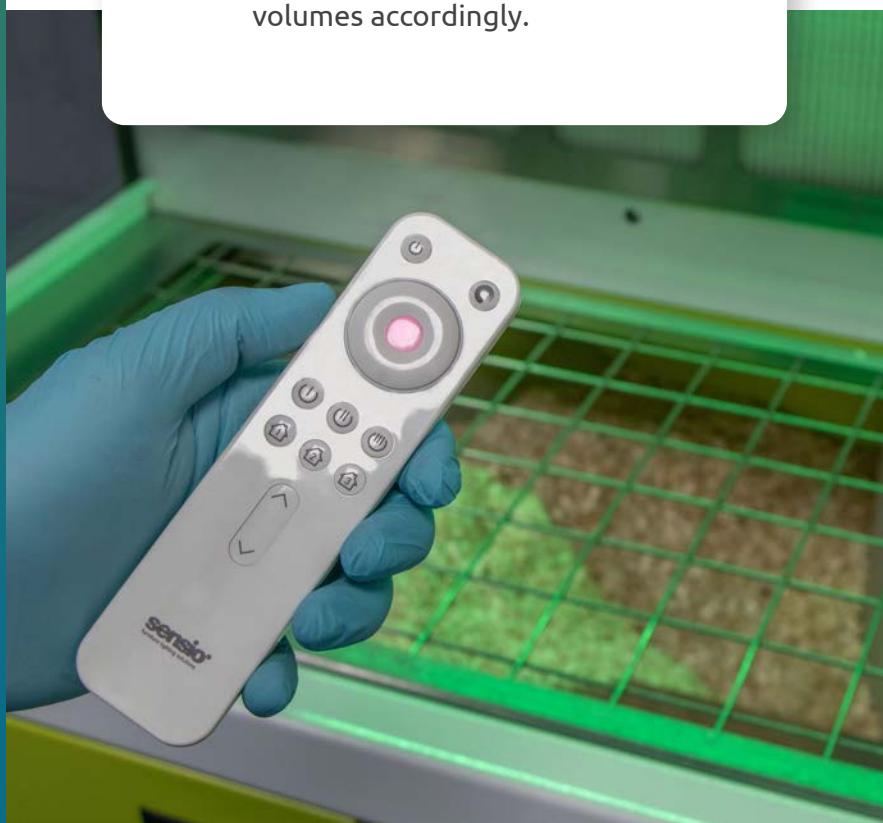
Ultrasonic sensors provide two independent automatic dispensing points, and excellent, class-leading accuracy ( $\pm 4\%$ ).

This is ideal for filling cages quickly and efficiently by dispensing precise volumes of bedding every time eliminating wastage and reducing operating costs. The accuracy also contributes towards reduced variability in potential studies and results.



## Intuitive User Interface

The 7" colour touch screen displays live graphics of the top hopper level and alerts users when bedding is required. Users can easily program in their own cage names, and adjust dispensing volumes accordingly.



## Key Features



### Plug N Play

SychemFILL is designed to be true plug n play. It is small enough to fit through standard doors, easy to move and simple to set into place. Just plug the machine into a standard socket, add your desired bedding, and begin.

### Bedding Compatibility

Sychem's Fill station is compatible with all free-flowing rodent bedding with particle sizes ranging from 0.9mm-10mm. SychemFILL also supports all types of commonly used wood and paper-based bedding (including corn cob).



### Real-Time System Monitoring

An integrated level indicator alerts users when bedding is required. User protection is assured by monitoring filters and fan conditions. A smart cycle counter also allows you to monitor the number of cages filled and assists further with the management of the facility.

## Airflow Range

SychemFILL is part of our Airflow Range, a collection of five systems that also includes:

[Change Station](#)

[Waste Station](#)

[Safety Cabinet](#)

[Air Shower](#)



## User Safety

SychemFILL enhances user safety by reducing exposure to harmful fine particles commonly found in bedding materials.

Key safety features include:

- **Active Airflow Technology:** Dual mechanical and vacuum system eliminates fine particles, protecting users and animals
- **Ergonomic Design:** Easy reloading system prevents strain and injury  
Energy Efficiency: Auto sleep mode cuts down electricity consumption, ensuring a safe and eco-friendly operation
- **Reduced Manual Handling:** Minimises physical strain and prevents musculoskeletal disorders associated with manual bedding handling

**SychemFILL is one of the fastest filling stations on the market.**



## High Energy Efficiency

SychemFILL is highly energy efficient, requiring only a standard socket.

Sleep mode shuts the system down automatically after a set period of non-use, cutting electricity costs. Touching the display can wake the machine instantly.



## SychemFILL: Technical Information

Dimensions		
Dimension Description	Inches	mm
Width	45.43	1154
Height	77.09	1958
Depth	26.38	670
Largest Cage (Height)	11.42	290

Noise	
Noise	db
Fans only	57
Auger & Fans	65
Auger, Vacuum & Fans	68

Weight		
Weight	lbs	kgs
Unpacked Weight	573	260

Hopper Capacities	Cubic Inch	CC	Litres
Upper Hopper	9764	160000	160
Lower Hopper	4882	80000	80

SychemFILL offers flexible, customisable options to meet the specific needs of your facility.

Whether it's bedding type, dispensing volume, or a bespoke bulk bag refill system, we provide tailored solutions.

*Get in touch today to discuss how SychemFILL can be adapted to streamline your cage filling process.*

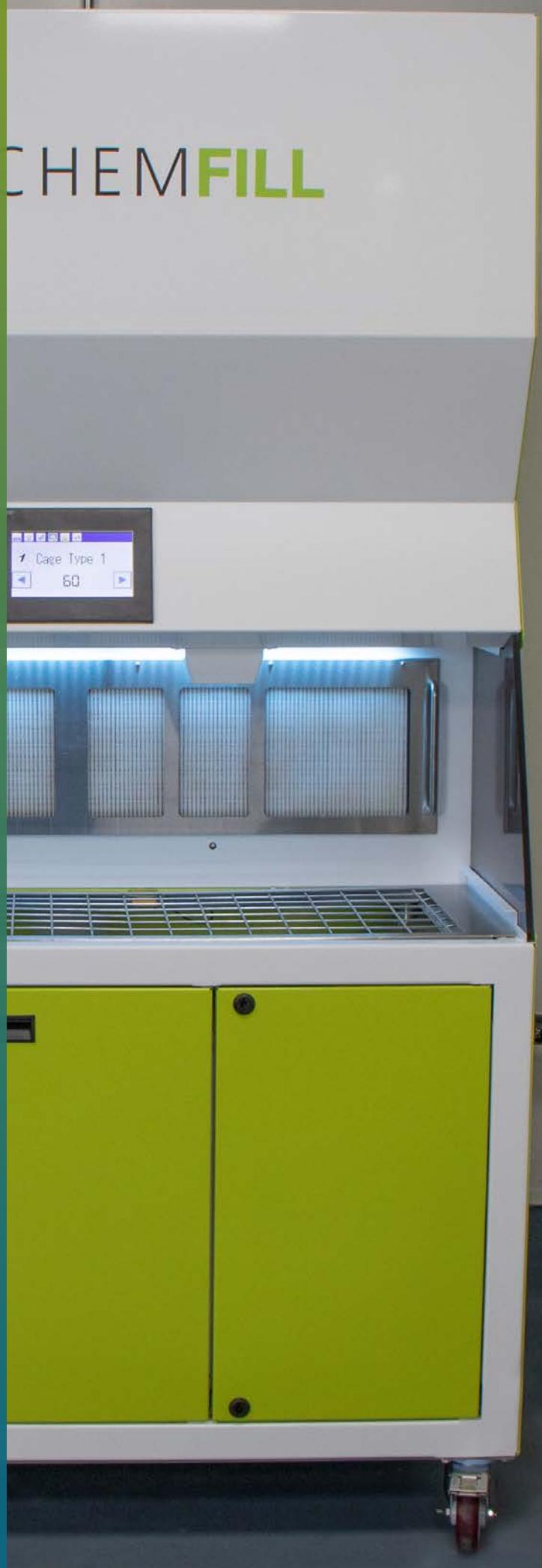


## Enhance Your Cage Changing Process



**SychemFILL is the ideal solution for enhancing the cage change process within any biomedical research facility.**

The system has multiple preset programmes that can be easily adjusted, and users can select different cage types at the touch of a button. SychemFILL features two bedding dispensing points for automatic filling into all cage types.



# SychemFILL Bespoke

## Customisable Solutions

Here at Sychem we understand that every facility is unique which is why we offer fully customisable solutions designed to meet your needs.

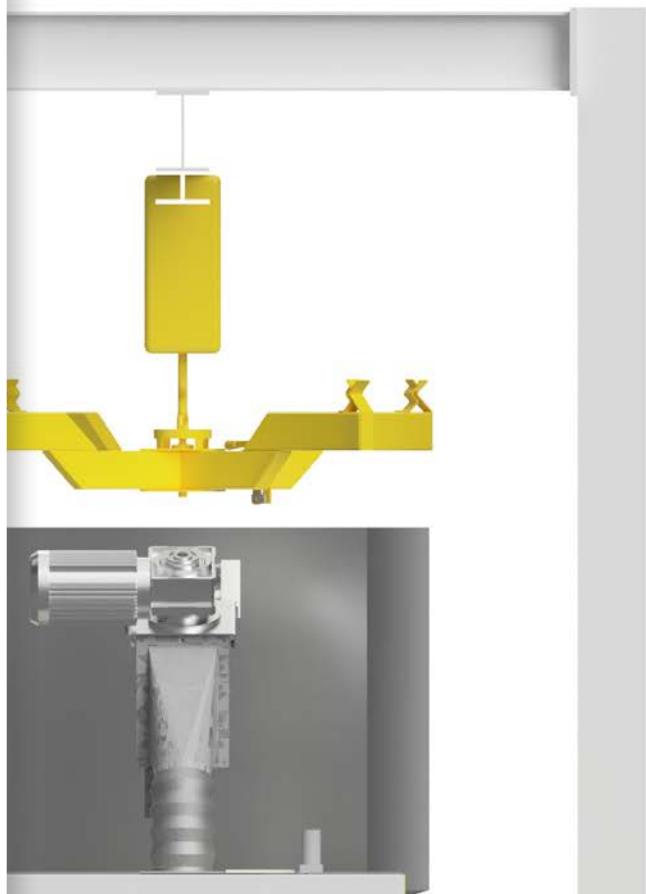
With a combined effort from our R&D and Projects team, we can tailor SychemFILL Bespoke to suit the diverse requirements of any facility.

## Client Case Study

The first customisation of the station was developed to help reduce costs in bedding, remove the necessary need to manually lift bags and save operator time.

The station featured a bulk bag discharge system complete with a flexible screw conveyor.

*Get in contact with our team of experts for bespoke solutions.*



 SYCHEM **FILL**



# SychemCHANGE



**Cage change stations are the industry standard for performing cage changes and minor procedures.**

Units are designed to protect animals from the external cage environment and users from allergens, dander and potential pathogens.

SychemCHANGE utilises Active Airflow Technology to ensure a clean and protected environment.



## Active Airflow Technology

Protects animals from external pathogens and cross-contamination when performing cage changing and minor procedures.



## Class-Leading Flexibility

Designed as a dual access workstation, the unit is compatible with any size and type of rodent cages on the market.

SychemCHANGE features a fully reversible TRESPA® worksurface, available in either a fixed raised or lowered position.



## Ergonomic Excellence

SychemCHANGE offers the best height range on the market, making it suitable for any user. At the touch of a button, the electrically controlled legs can be seamlessly raised or lowered to maximise user comfort and simplify the cleaning process.



## Key Features



### Light Trace Technology

Sychem's unique light trace technology monitors the presence of light in your facility, shifting the task lighting from white to either red light mode, or 'off', depending on user preference. Light changes are recorded by the unit.



### Red Light Mode

SychemCHANGE features a red light mode as standard. When activated, it changes the unit's LED task lighting to red, and dims the screen brightness to a lower level. This feature prevents disruption to animals' sleep cycles.



### Intuitive Touch Screen

SychemCHANGE features a 5" colour touch screen with a user-friendly interface (UI) and universal icons. This large screen layout provides technicians with information at a glance, and quick access to controls.

*UI available in multiple languages.*

## Airflow Range

SychemCHANGE is part of our Airflow Range, a collection of five systems that also includes:

[Bedding Dispenser](#)

[Waste Station](#)

[Safety Cabinet](#)

[Air Shower](#)



## Standard Design

- Active Airflow Technology
- ISO Class 3 air quality
- H14 HEPA filtration
- Light Trace Technology
- Red light mode
- Electronic height adjustment with built in safety system
- Dual access
- Two cage lid holders
- Four plug sockets
- 5" colour touch screen
- Reversible TRESPA® worksurface
- Two side mounted handles



## Optional Accessories

- ✓ TRESPA® shelves
- ✓ Clear-sided food hopper
- ✓ Automatic foaming hand sanitiser station
- ✓ USB sockets to replace standard plug sockets
- ✓ Rear cover for single-sided configuration
- ✓ Repositionable locking arms with either a; high-powered magnifying glass, phone holder or clamp



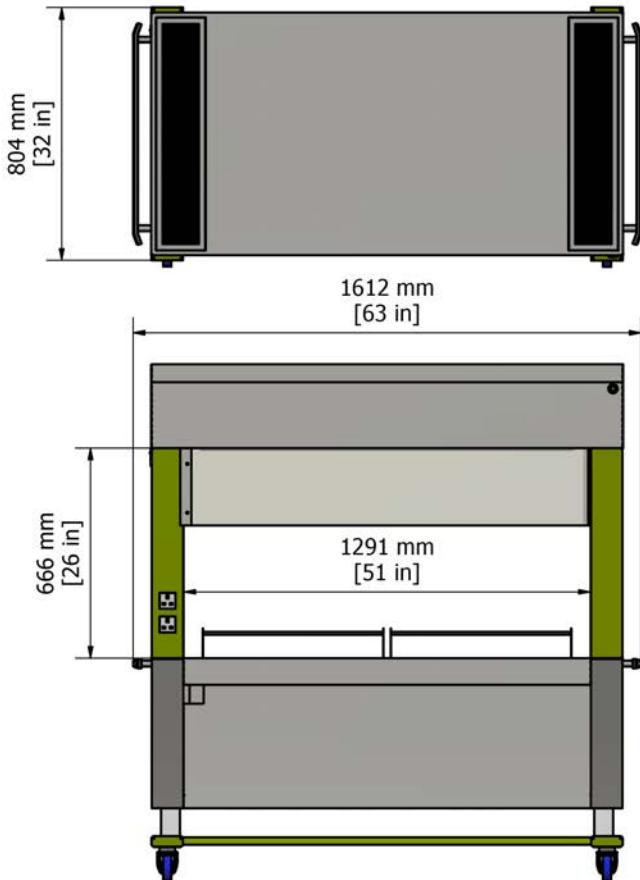
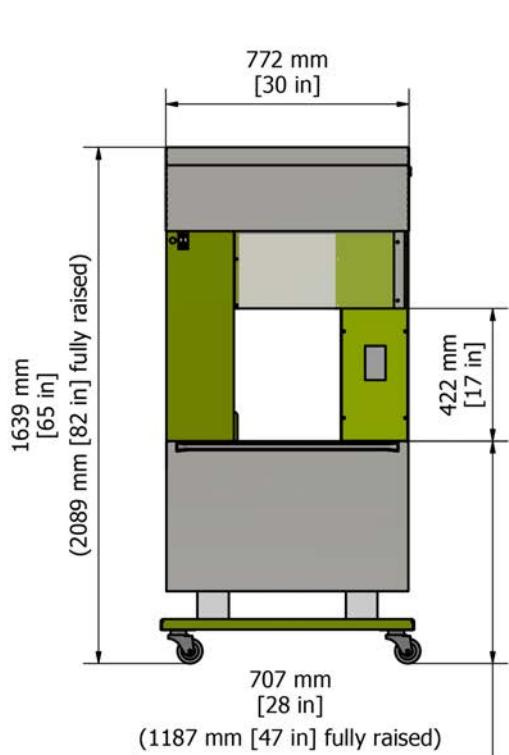
## SychemCHANGE: Technical Information

Dimensions		
Dimension Description	Inches	mm
Width	63.46	1612
Height	64.52	1639
Raised Height	82	2089
Depth	30.39	772
Largest Cage (Height)	15.74	400

Noise		Weight		
Noise	db	Weight	lbs	kgs
Fans only	55	Unpacked Weight	580	263

Work Area	Width	Height	Depth
Level	1208mm 47.56 inches	666mm 26.22 inches	686mm 27 inches
Dipped	1208mm 47.56 inches	712mm 28.03 inches	686mm 27 inches

- Active Airflow Technology:** ISO Class 3 airflow with H14 HEPA filters ensures a contamination-free environment for both animals and operators
- TRESPA® Worksurface:** Chemical and impact-resistant worktop, fully reversible with fixed or adjustable height options
- Ergonomic Design:** Electrically adjustable legs for optimal height, enhancing user comfort and simplifying cleaning tasks
- Red Light Mode:** Built-in red light mode for minimal disruption to animal sleep cycles and better environmental control



**Mini****Standard****XL**

## SychemCHANGE Mini: Technical Information

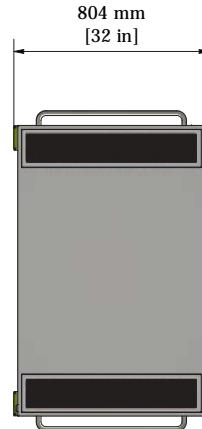
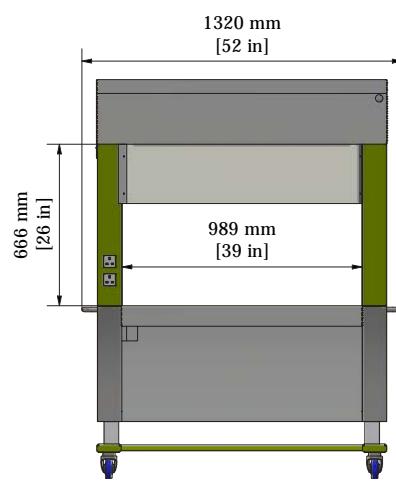
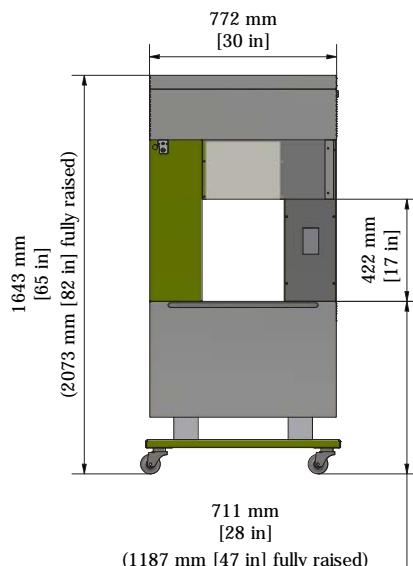
Dimensions		
Dimension Description	Inches	mm
Width	52	1320
Height	65	1643
Raised Height	82	2073
Depth	30.39	772
Largest Cage (Height)	15.74	400

Noise	
Noise	db
Fans only	55

Work Area	Width	Height	Depth
Level	908mm 38.58 inches	666mm 26.22 inches	686mm 27 inches
Dipped	908mm 38.58 inches	712mm 28.03 inches	686mm 27 inches

SychemCHANGE MINI is a compact version of our animal transfer station, designed for smaller spaces. It maintains the same safety, ergonomic, and airflow features as the full model, perfect for more confined environments.

*Looking for a different size?  
Customisable options available.*



## SychemCHANGE XL: Technical Information

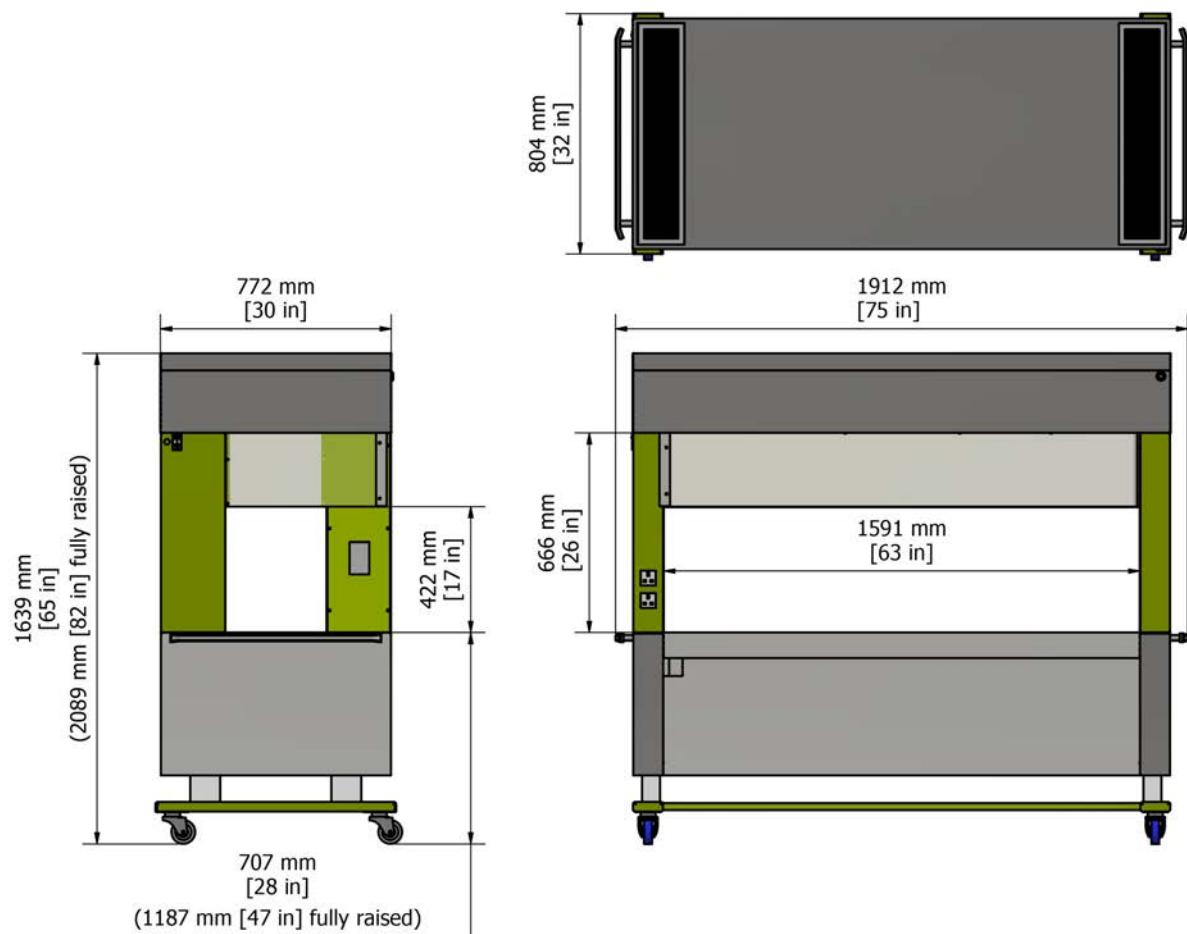
Dimensions		
Dimension Description	Inches	mm
Width	75.28	1912
Height	64.52	1639
Raised Height	82	2089
Depth	30.39	772
Largest Cage (Height)	15.74	400

Noise		Weight		
Noise	db	Weight	lbs	kgs
Fans only	55	Unpacked Weight	661	300

Work Area	Width	Height	Depth
Level	1508mm 59.37 inches	666mm 26.22 inches	686mm 27 inches
Dipped	1508mm 59.37 inches	712mm 28.03 inches	686mm 27 inches

SychemCHANGE XL is the larger version of our original change station. It can accommodate cages of larger species, and additionally gives animal technicians more space to work.

*Looking for a different size?  
Customisable options available.*



# SychemWASTE



**SychemWASTE is a flexible bedding disposal station, designed to ensure the safe disposal of laboratory animal bedding, a mandatory requirement of any animal facility to protect technicians against laboratory animal allergens (LAA'S).**

Our plug and play, stand-alone bedding disposal station comes as standard with a single chute and tabletop, providing a spacious working area ideal for handling small and large cages. Triple stage filtration allows for quiet air extraction and removal of dust, allergens and dander.

The system was designed and manufactured to withstand environments where frequent chemical use and moisture exist.



## Active Airflow Technology

Air is drawn away from the user at bin level and passed through a mesh, prefilter and then HEPA filter, removing any potential allergens, dust or dander.



## Unrivalled Cleanability

Easily removable doors and sides facilitate simple access and cleaning. The rack washable worksurface and waste chute further allow for ease of cleaning. Fully removable components make SychemWASTE the most accessible waste station.



## Ergonomic Excellence

Users can configure the workstation to maximise efficiency. The unit's spacious worksurface provides users with ample room to safely work with various cages. The sliding worksurface allows users to break down complete cages within the station's safe working environment.



## Key Features



### Three Stage Filtration

SychemWASTE guarantees user protection. The three-stage filtration process starts by drawing air and potential pathogens away from the user, preventing exposure. After the air is drawn away, it passes through the filtration process, finishing with an H14 HEPA filter.

### Intuitive HMI

The screen displays live information regarding the filters. When the machine is turned on, the display will show a red smiley face which turns to green when the machine reaches optimal airflow levels, and is ready to be used. An amber smiley face indicates a partial blockage of the filters.



### Easy On-Site Set Up

Utilising a standard interchangeable mains plug and locking castor wheels, the standalone waste disposal unit can be quickly and easily installed. Being lightweight, SychemWASTE can easily fit through any standard door and can be fitted by even non-technical personnel.

## Airflow Range

SychemWASTE is part of our Airflow Range, a collection of five systems that also includes:

[Bedding Dispenser](#)

[Change Station](#)

[Safety Cabinet](#)

[Air Shower](#)



## Standard Design

SychemWASTE is a flexible and efficient bedding disposal station designed for biomedical research facilities. With user protection against allergens and a high level of cleanability, it ensures safety and ease of use.

- Protects users from allergens and odours with a comprehensive filtration process, including H14 HEPA filtration
- Draws allergens away from the user, ensuring a clean, safe working environment
- Easily accommodates various cage sizes, maintaining cleanliness throughout the disposal process
- Customisable work surface and chute for both left and right-handed users
- Rack-washable worksurface, removable components for easy cleaning and maintenance
- Quick and easy installation with a standard mains plug and locking castor wheels

SychemWASTE offers a vast cage compatibility.



## SychemWASTE RL

Designed to optimise user comfort, discover our newest version of our waste station, SychemWASTE RL.

At the touch of a button, customise your machine's height with an electrically raising and lowering design.

*Raises to a maximum of 200mm higher than our standard waste station.*

## Optional Accessories

- Second chute with knockout bar
- Sychem bin(s)
- Side handles
- Exhaust thimble
- Magnetic bumpers
- Additional scraper
- Additional worksurface
- Colour coded bins
- Right side handle

*By selecting the double chute and sliding worksurface option, users can benefit from saving time by swapping bins out less frequently, and an increased choice of user configuration.*

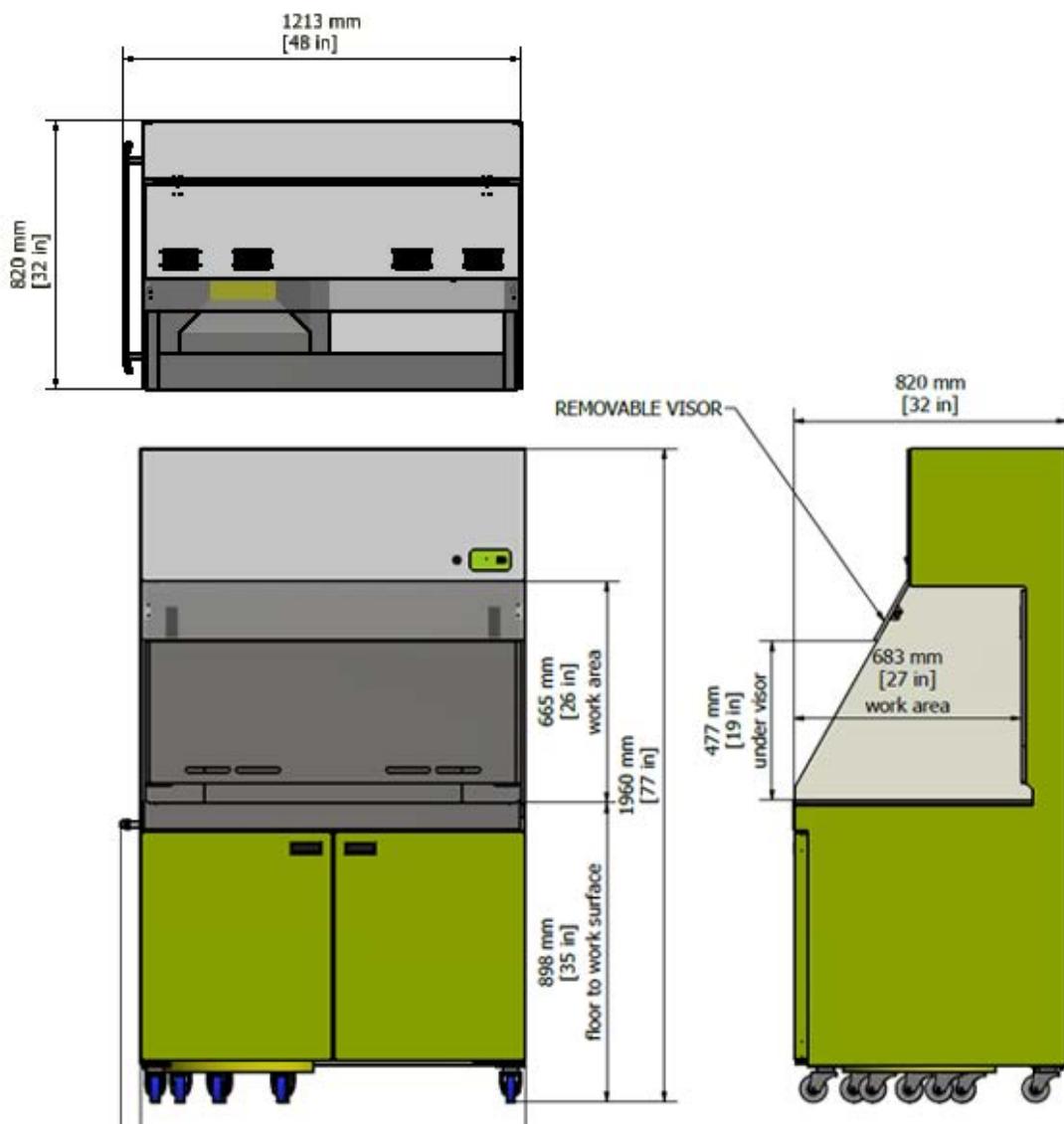


## SychemWASTE: Technical Information

Dimensions		
Dimension Description	Inches	mm
Width (with handle)	47.8	1213
Height	77.2	1960
Depth	32.3	820
Largest Cage (Height)	13.78	350

Noise		Weight		
Noise	db	Weight	lbs	kgs
Fans only	57	Unpacked Weight	419	190

Bin Capacity	Cubic Inch	CC	Litres
Full lined bin	7323	120000	120

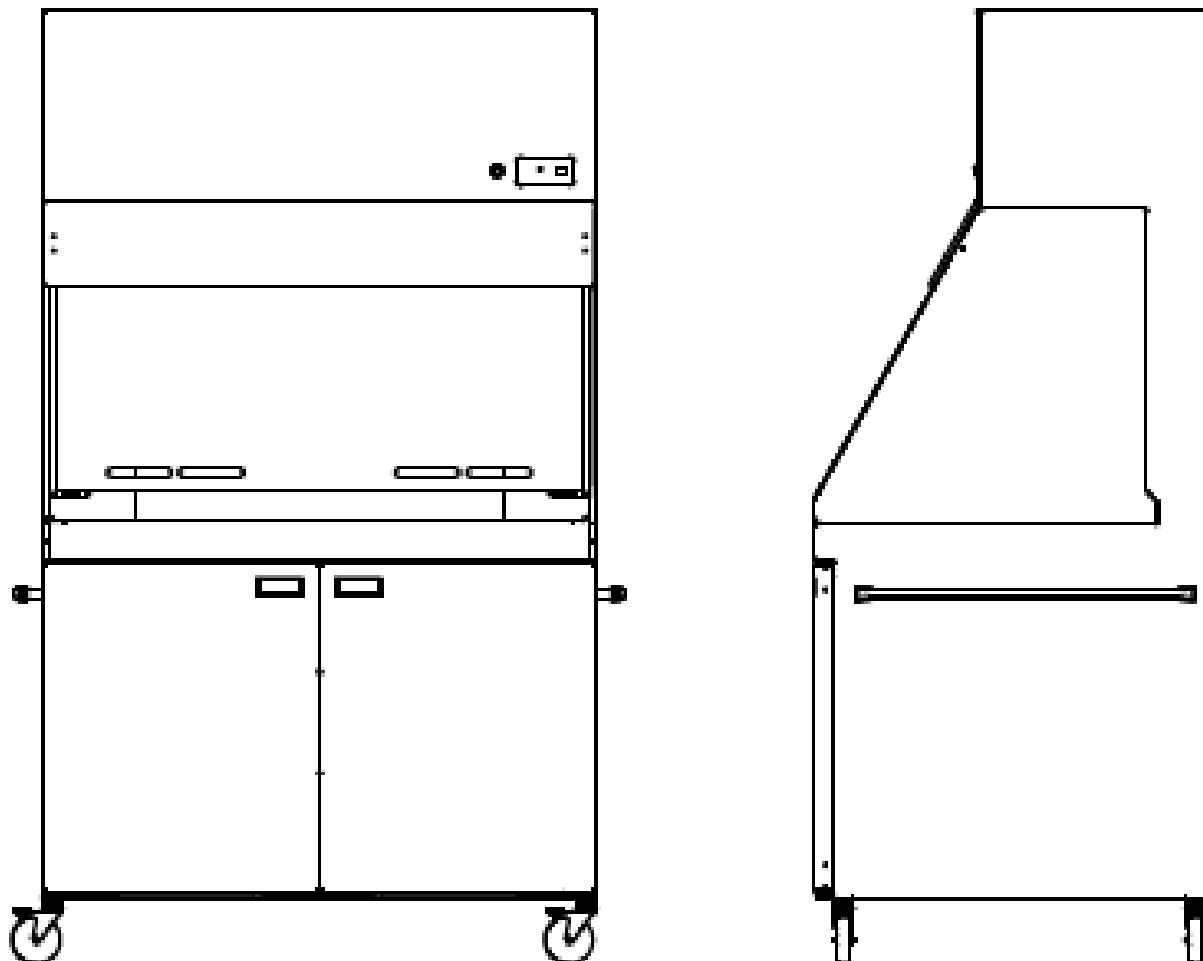


## SychemWASTE RL: Technical Information

Dimensions		
Dimension Description	Inches	mm
Width (with handle)	47.8	1213
Height	77.2	1960
Raised Height	85	2160
Depth	32.3	820
Largest Cage (Height)	13.78	350

Noise		Weight		
Noise	db	Weight	lbs	kgs
Fans only	57	Unpacked Weight	419	190

Bin Capacity	Cubic Inch	CC	Litres
Full lined bin	7323	120000	120



# SychemAIR



**Air shower chambers are used to remove dust, dander, and allergens from the operator.**

It is a self contained unit that utilises high efficiency air flow to effectively remove all types of contaminants from every individual before passing into a lower contamination area.

SychemAIR features a compact design, a customisable layout, easy maintenance and a flat-pack delivery option.



## Active Airflow Technology

SychemAIR utilises multiple fans placed in strategic locations to allow for redundant airflow increasing the unit's reliability.

*Air velocity of 25 m/s (82 ft/s).*



## Particle Removal Excellence

SychemAIR is equipped with a total of 48 air nozzles, creating an enveloping airflow. Nozzles are located in opposing corners and are angled towards the direction of the occupant, enabling optimal particle removal.



## Three Levels of Filtration

SychemAIR utilises a three-level filtration system: a dust filter, a pre-filter, and a HEPA H14 filter.

The dust filter removes the larger particles such as hair, skin, and dirt from the air, and prolongs the life of the pre-filter.

The pre-filter is designed to remove medium-sized particles, such as dust, from the air.

The air then passes through the HEPA filter, removing particles up to 0.3 µm, including allergens and dander.



## Key Features



### Easy Maintenance

A full body in stainless steel, designed for easier cleanability and stronger durability. SychemAIR is designed to be easily maintained and can be done so from within the air shower. The floor is easily removable, enabling the user to vacuum away any dirt and dust.

*Technician access is through the ceiling.*

### Increased Security

SychemAIR features 3 safety stop push buttons, 1 internal and 2 external. This allows the machine to be stopped at any point of use. Each door has 2 magnetic locks to prevent premature door opening, securing the airflow while the cycle is running.

*Sequenced to maintain effective barrier protecting against misuse.*



### User-Friendly Design

SychemAIR is user-friendly, and easy to operate. The whole particle removal process is completed in less than a minute, starting from pressing the door release button, through to stepping out into the clean side.

*This efficient set-up optimises staff entry time into a lower contamination level environment.*

## Airflow Range

SychemAIR is part of our Airflow Range, a collection of five systems that also includes:

[Bedding Dispenser](#)

[Waste Station](#)

[Safety Cabinet](#)

[Change Station](#)



## Customisable Solutions

SychemAIR is available as a straight through passage, angle passage, and T passage (with 3 doors).

The chamber size can also be elongated as a straight through air shower corridor. The overall height can be adjusted for your facility's requirements.



Tailored cleanroom protection, every time.



## Easy Installation Options

SychemAIR can be ordered as pre-built, or in a flat-pack configuration, for easy installation in limited access facilities.

Our flat-pack solution offers flexible installation options to best suit your facility's needs.

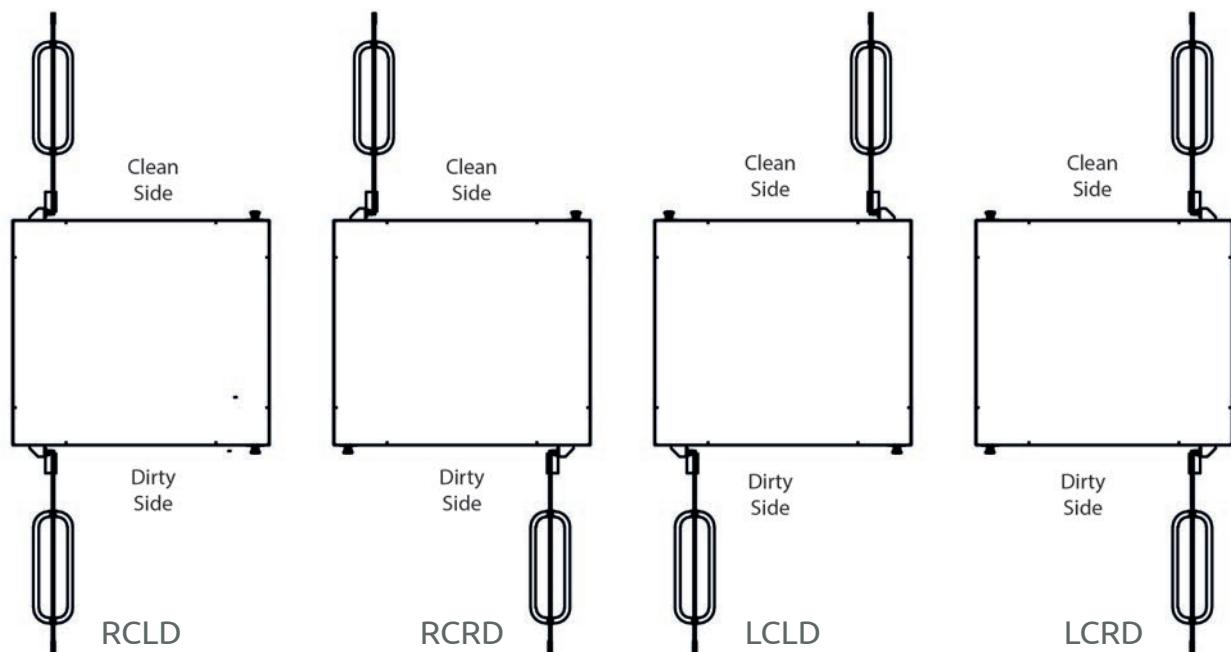


# Door Configuration

At Sychem, we understand that every facility is unique, which is why we offer a selection of customisable door configurations to suit your specific workflow and space requirements.

Choose between single or double pass-through doors, with hinged or sliding styles available. For greater operational ease, doors can be either manual or automatic. The chamber layout is also fully configurable, available in straight-through, angled, or T-passage formats.

Additionally, the unit's height and length can be adapted to integrate seamlessly into your facility, making SychemAIR a truly flexible solution.



## Tailored Solutions

Offering tailored cleanroom solutions to meet diverse facility needs. From adjustable air shower cycles and custom chamber dimensions to varied door styles and configurations, every detail is adaptable.

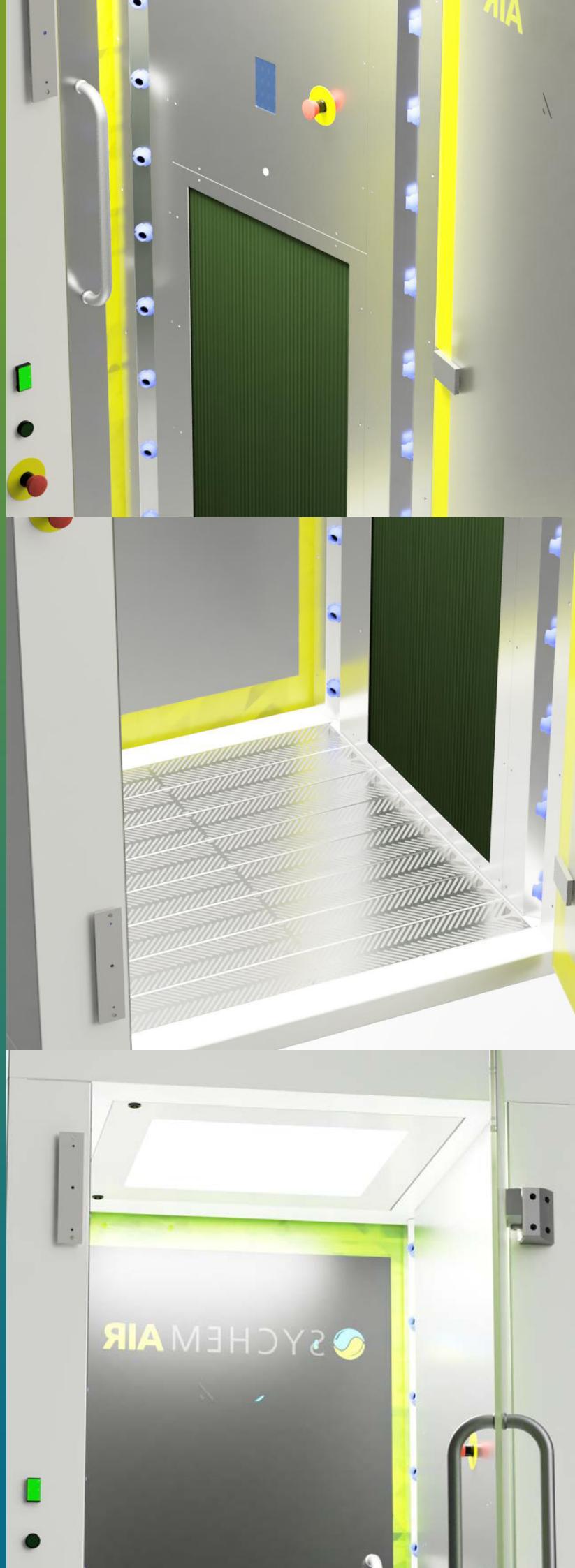


## The Benefits of SychemAIR



SychemAIR is built with operator safety at its core. Featuring 48 high-velocity air nozzles and our proprietary Active Airflow Technology, it effectively reduces contamination before entering cleaner zones.

The system safeguards both personnel and processes, ensuring compliance with even the most demanding cleanroom protocols.



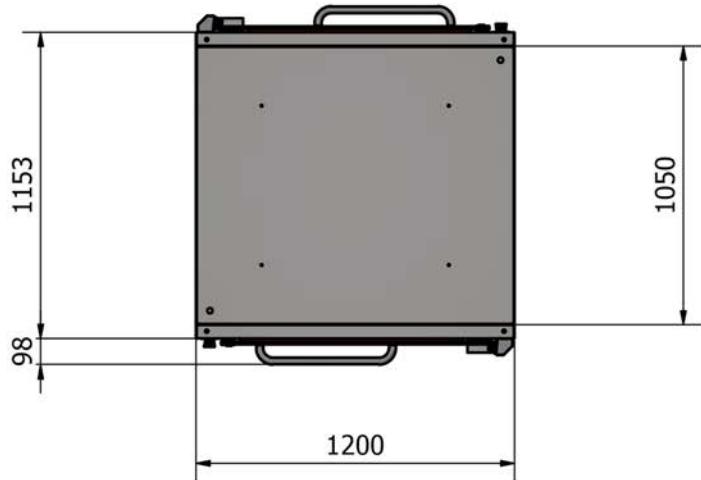
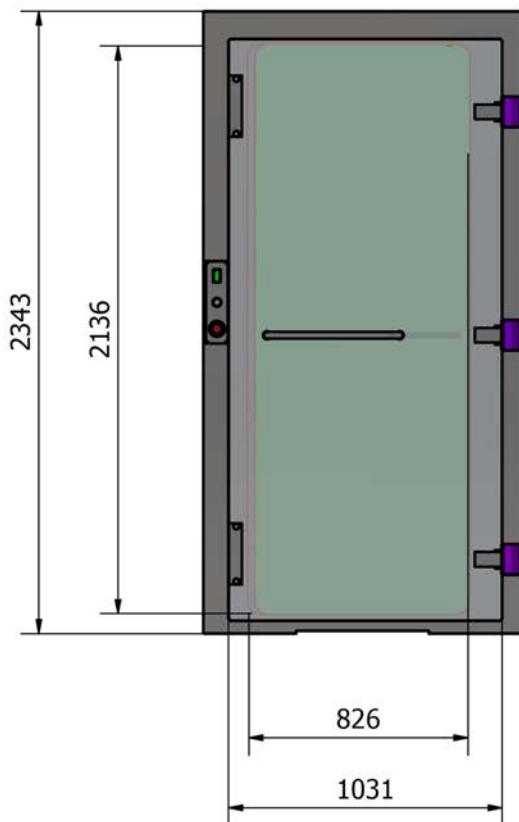
## SychemAIR: Technical Information

Dimensions		
Dimension Description	Inches	mm
Width	47	1200
Height	92	2343
Depth (inc handles)	53	1349

Air Velocity	
m/s	ft/s
25	82

Weight		
Weight	lbs	kgs
Unpacked Weight	1257	570

- **Flexible Door Types:** Select hinged or sliding doors, with manual or automated operation
- **Multiple Configurations:** Choose straight-through, angled, or T-passage chamber layouts
- **Adjustable Dimensions:** Customise height and chamber length to fit your space
- **Installation Options:** Available as pre-built units or flatpack for limited-access areas



# SychemSAFETY



**SychemSAFETY** is our range of dual filter Class 2 cabinets, incorporating the latest in laminator technology, energy-saving designs and HEPA-filtration.

SychemSAFETY is the ideal choice for your laboratory or research facility whenever operator, environmental and product protection is required.

The machine is designed for all biological, microbiological, and tissue culture materials, whether for research or for routine applications.

## ✓ Active Airflow Technology

70% of airflow is recirculated through the main HEPA filter. This provides the downflow protection, and 30% exits out through the HEPA filter to the exhaust. This limits the potential for cross-contamination and maximises staff safety.

## ✓ Efficient HEPA Filters

110 mm HEPA filters with efficiency at 99.999% against 0.3  $\mu\text{m}$  particles ensure a clean sterile work chamber environment.

HEPA filters do not trap gases and toxic chemicals that may be used as an adjunct to microbiological studies.

## ✓ Flow Sensors

The downflow & exhaust fan is constantly monitored via the differential pressure sensors to maintain safe operating conditions.

SychemSAFETY features alarms, both acoustic and visual for unsafe airflow conditions or any interruption.



## Key Features



### Low Noise Level

SychemSAFETY's unique design, incorporating laminator technology, ensures true and turbulent-free laminar flow. This advancement results in lower noise levels, and a vibration-free work area. SychemSAFETY operates at a 47 dB(A) noise level at factory settings and comes with eco-save mode, which results in 37 dB(A).



### Easy to Maintain

All service functions are performed from the front of the safety cabinet. This includes changing the HEPA filters, PCBs, and sensors as well as adjusting and monitoring alarms and fan speed.

*SychemSAFETY features an angled pre-filter for easy inspection and filter exchange.*

## Airflow Range

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[Waste Station](#)

[Change Station](#)

[Air Shower](#)





Latest energy efficient fans

All service functions are performed from the front of the cabinet

Eye level control panel

Compactly constructed with an overall depth of less than 800mm

Electrical operated front window with fully open/closed positions

Angled front window that gives a correct ergonomic working position when either seated or standing

Sectional work tops for easy removal, cleaning and decontamination

Wide range of support stands

## Why Choose SychemSAFETY?

- **Optimal User Comfort:** New EC fans and optimised airflow contribute to a 6 dB(A) noise reduction, ensuring a quieter and more comfortable workspace (47 dB(A) at factory settings, 37 dB(A) in Eco-save mode)
- **Ergonomic Design:** V-shaped angled inflow grills and a diffused laminator offer a comfortable working position and shadow-free lighting for stress-free operation
- **Panoramic Windows:** Large front and side windows provide optimal supervision and glare-free lighting. Integrated Control Panel: LCD display positioned for easy viewing and operation, ensuring optimal performance and safety
- **Energy Efficient:** The Eco-save mode reduces energy consumption while maintaining safety levels, contributing to lower operational costs
- **Customisable Options:** Available in multiple sizes and configurations, including options for UV lights, decontamination systems, and side windows for tailored solutions to fit your facility's needs

## Customisable Solutions

- Option of 2 or 3 filters
- 3 decontamination options
- 3 interior styles, featuring various tabletops
- Choice of 1 or 2 outlets for various countries
- Drip pan option
- Choice of side windows or steel sides
- Optional addition of valves in the side or back wall
- A UV light for decontamination can be fitted in the chamber



SychemSAFETY offers a vast range of customisable options.



## Configurations

SychemSAFETY is available in four different working width sizes, depending on the requirements of your facility:

Available in 900 mm, 1200 mm, 1500 mm or 1800 mm.

All models are available with a wide range of high-quality customised options to suit your individual needs or requirements.



## SychemSAFETY: Technical Information

Dimensions		
Dimension Description	Inches	mm
Width	51	1304
Height	81	2053
Depth	31	797
Depth with cover open	50	1276

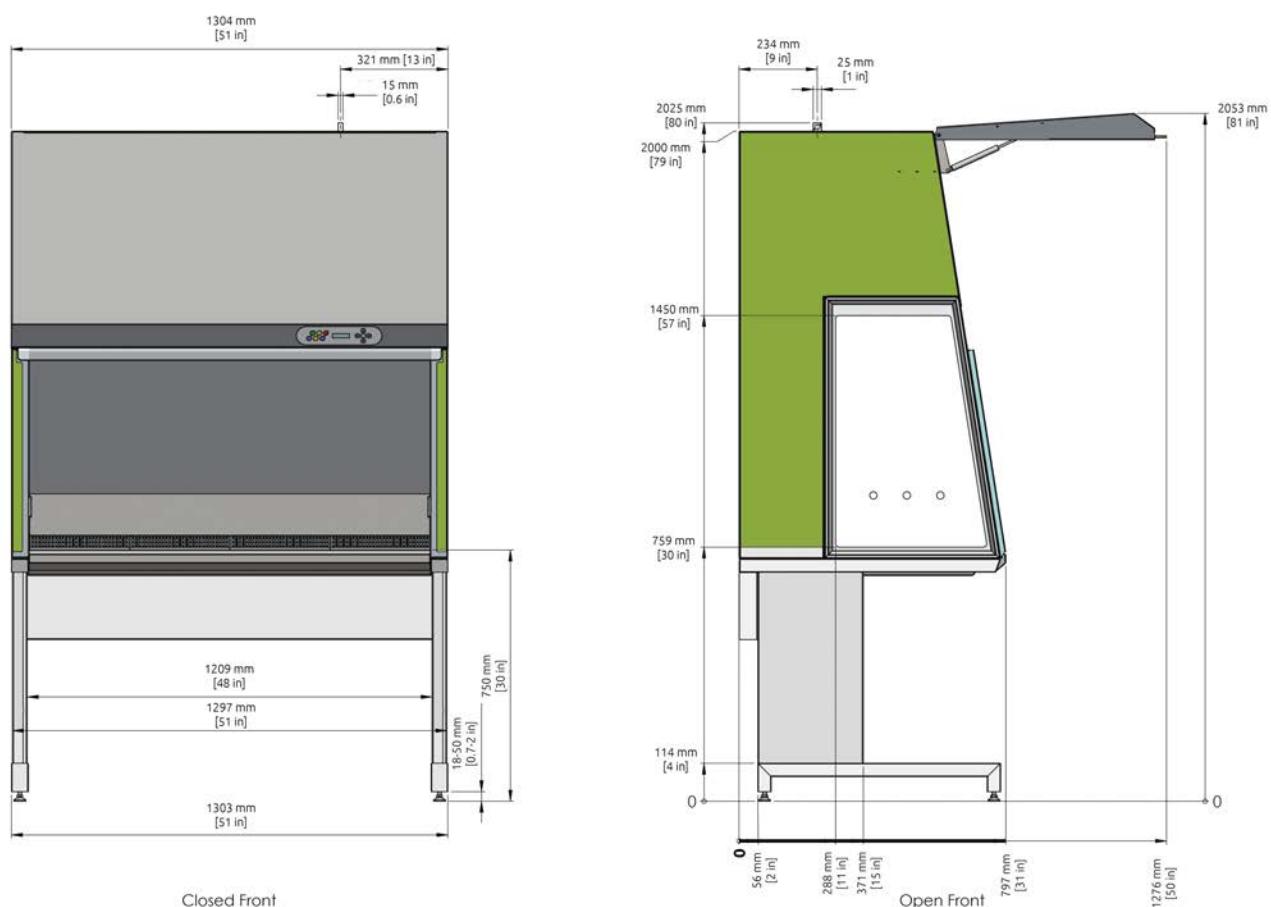
Noise	
Noise	db
At factory settings	47
In Eco-Save mode	37

Weight		
Weight	lbs	kgs
Unpacked Weight	423	192

SychemSAFETY cabinets offer advanced microbiological safety with Active Airflow Technology and efficient HEPA filters for sterile environments.

Features include low noise levels (47 dB(A) at factory settings, 37 dB(A) in Eco-save mode), ergonomic design, panoramic windows for glare-free lighting, and energy-efficient features.

Highly customisable, it meets diverse needs while ensuring optimal user comfort and safe working conditions.





**Quality you can trust,  
solutions you'll love.**

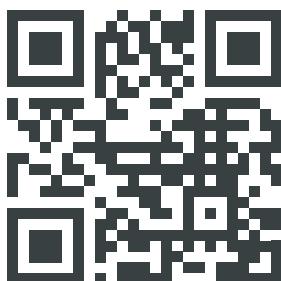
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Britain  

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