

Airflow Range

ANIMAL CONTAINMENT WORKSTATIONS

The all-new Sychem **Airflow Range**; animal transfer stations, bedding disposal units, & bedding dispensers.

Airflow Range
SychemFILL
SychemCHANGE
SychemWASTE



Contact us today!

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✉ hello@sychem.co.uk

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SYCHEM AIRFLOW RANGE

Sychem has served the Life Science sector since 1982, providing a comprehensive range of animal care solutions, services, consumables and animal containment workstations for use in Biomedical research facilities.



SychemFILL

SychemFILL is a clean bedding dispensing system that provides the ideal solution for modernising the cage change process. Featuring unrivalled accuracy in cage filling, regardless of cage size and bedding type, SychemFILL offers a simple and effective filling process that saves time and allows for a higher throughput of cages.

- Industry-leading accuracy
- Intuitive user interface
- Compatible with all free flowing bedding



SychemCHANGE

SychemCHANGE is a dual access animal transfer station designed to protect animals from the external cage environment and users from allergens, dander and potential pathogens. The change station utilises Active Airflow Technology to create a fully functioning machine.

- Ergonomic excellence
- TRESPA® worksurface
- Red light mode



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).

- Unrivalled cleanability
- Three stage filtration
- Double chute option





What makes our workstations unique?

Each machine in our Airflow range utilises Sychem's Active Airflow Technology to maximise its protection for animals and technicians. All our workstations are manufactured in the UK, and are designed with ergonomic advantages.

Why choose SychemFILL?



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

For example, the reduction in manual labour required to fill cages by hand prevents the potential development of musculoskeletal disorders (MSD).

SychemFILL 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 your users from exposure to fine particles generated when filling cages.

SychemFILL

Our freestanding clean bedding dispenser

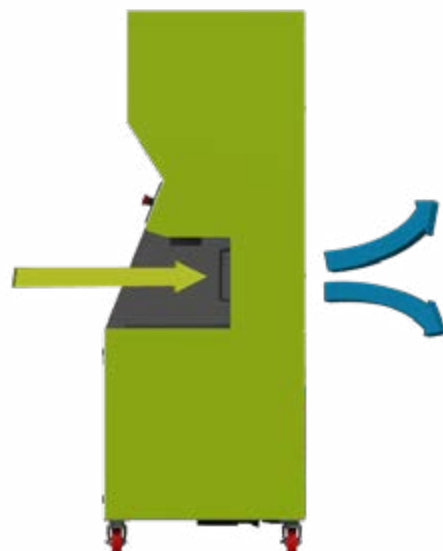
- ✓ +/- 4% Bedding Accuracy
- ✓ Active Airflow Technology
- ✓ Intuitive User Interface

Class-Leading Accuracy

The system offers excellent dispensing accuracy (+/- 4%), eliminating wastage and reducing costs. Additionally, the accuracy contributes towards reduced variability in any potential studies and results.

Active Airflow Technology

SychemFILL utilises a dual mechanical & vacuum system that removes fine particles from bedding before being dispensed, while Sychem's Active Airflow Technology protects the users from exposure to dust and particulate. 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.



Sychem's bedding dispenser is one of the fastest filling stations on the market.



Enhance Your Cage Changing Process

The SychemFILL clean bedding dispenser is the ideal solution for enhancing the cage change process within any research facility. The system has multiple preset programmes that can be easily adjusted, and provides ease for users when selecting different cage types at the touch of a button. SychemFILL features two bedding dispensing points for the automatic filling into all cage types.

Compatible with All Free Flow Bedding

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

AIRFLOW RANGE

SychemFILL is a part of our Airflow Range that also includes SychemCHANGE- a dual access animal transfer station and SychemWASTE- a bedding disposal unit.



How it works



Active Airflow Technology

Using a dual mechanical & vacuum system, SychemFILL actively removes fine particles from bedding before being dispensed. This allows for an improved cage environment for the animals while protecting users from residual fine particles.



Easy, Ergonomic Loading

The dual mechanical & vacuum system allows for easy and comfortable reloading of bedding by transferring bedding from the lower hopper to the top hoppers. This allows for the reuse of any bedding that missed a cage, and prevents injury caused by lifting bags to a height.



Intuitive User Interface

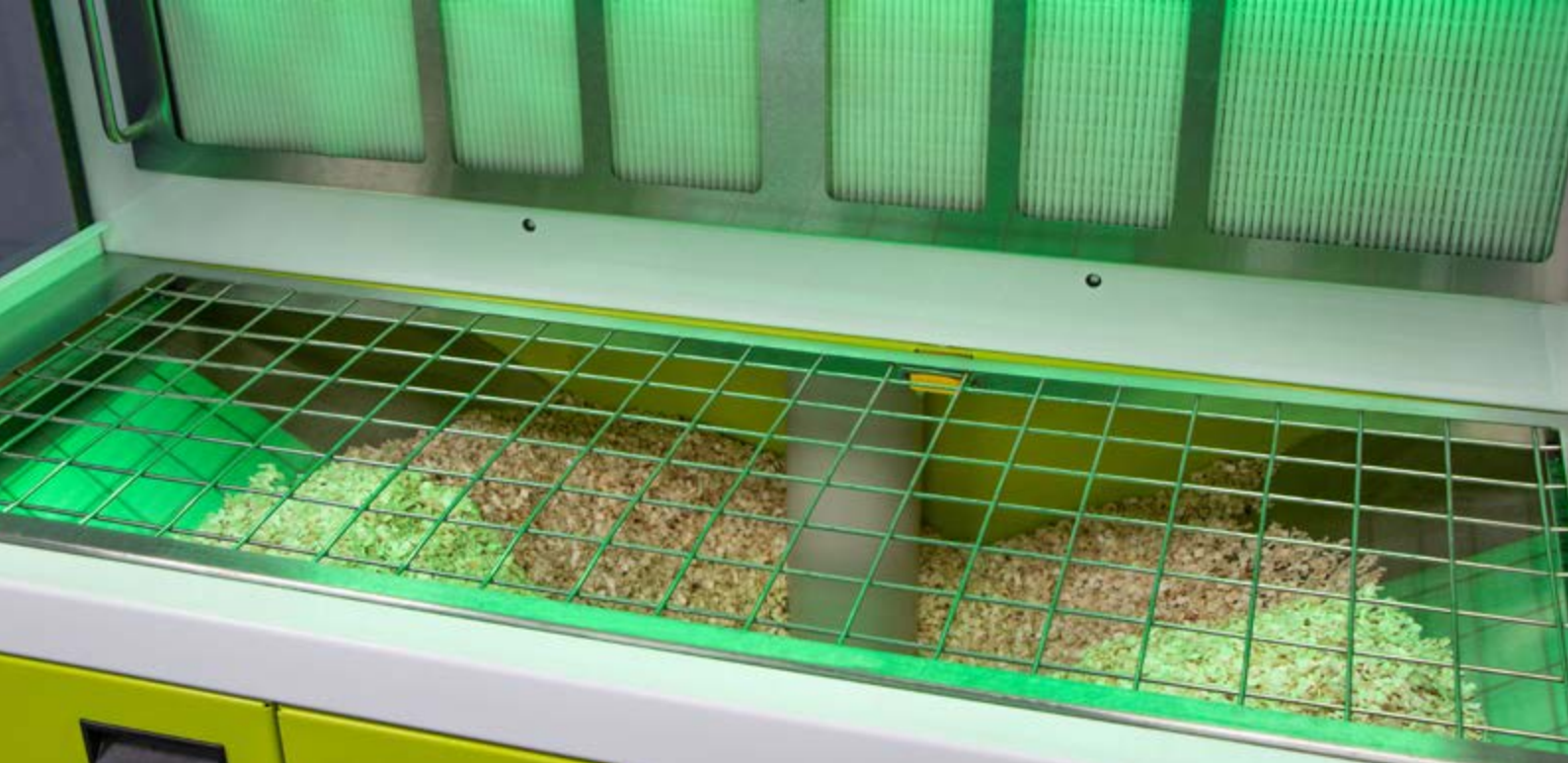
The 7" colour touch screen displays live graphics of the top hopper level and alerts users when bedding is required. Users can easily program in their own cage names, and adjust dispense volumes accordingly.



Quick & Accurate Dispensing

Ultrasonic sensors provide two independent dispensing points with automatic automation and excellent, class-leading dispensing accuracy ($\pm 4\%$)—ideal for filling cages quickly & efficiently, by dispensing precise volumes of bedding every time.





How it works



True Plug N Play

The SychemFILL unit is small enough to fit through standard doors, easy to move and simple to set into place. Just plug the machine into a standard 13amp socket, add your desired bedding, and begin - It really is that easy.



Highly Energy Efficient

SychemFILL is highly energy efficient, requiring only a standard 13amp socket. Sleep mode shuts the system down automatically after a set period of non-use, cutting electricity costs. Touch the display to wake the machine instantly.



Real-time System Monitoring

An integrated level indicator alerts users when bedding is required. In addition, 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 assist further with the facility's management.

User Safety Systems

The safety of users is at the core of the SychemFILL, in compliance with all relevant machine directives.

Standard features of the SychemFILL system include:

- Automatic safety sensor when filling directly into the hopper.
- Filter monitoring to maintain optimal user safety.
- Safe mode to prevent users from using the system while the filter-near-blocked warning is activated.

SychemFILL XL

Custom-built, automatic bedding filling station

The SychemFILL XL gives users the ability to enjoy the benefits of scale and autonomy with their clean bedding system. The dispenser is filled remotely using large tote bags, providing considerably longer intervals between bag changing.

Key Benefits

- Reduces the bedding costs through the use of larger, more cost-effective tote bags
- No manual lifting of bags is necessary as the system's hoist automates the process for users
- Saves time via the continuous filling of the bedding dispensing system

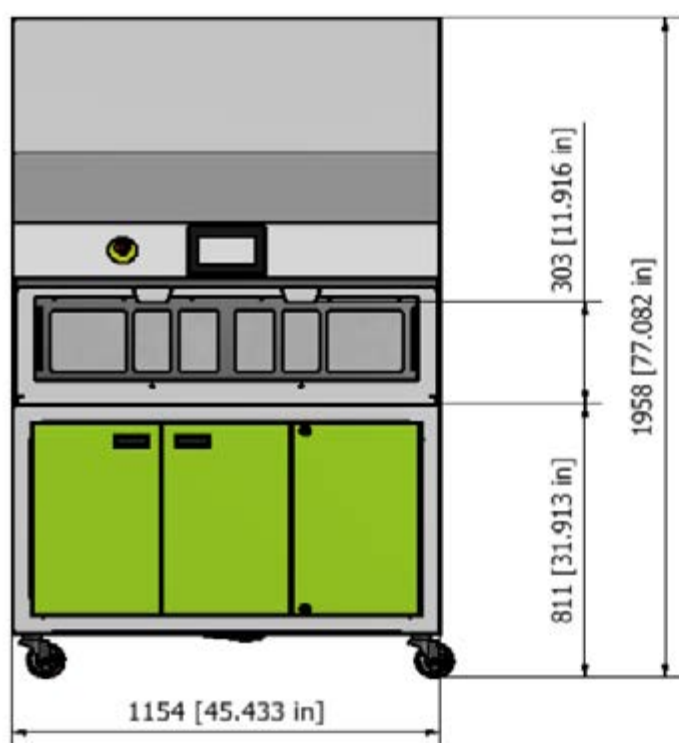


Technical information

Dimensions			
Dimension Description	Inches	mm	
Width	45.43	1154	
Height	77.09	1958	
Depth	26.38	670	
Largest Cage (Height)	11.42	290	
Hopper Capacities	Cubic Inch	CC	Litres
Upper Hopper	9764	160000	160
Lower Hopper	4882	80000	80

Noise	
Noise	dB
Fans only	56
Auger & Fans	65
Auger, Vacuum & Fans	68

Weight		
Unpacked Weight	lbs	kgs
	573	260



COMPATIBLE BEDDING

The system offers unrivalled dispensing accuracy (+/- 4%)*

**Accuracy can be influenced by the nature of the bedding.*



Why choose SychemCHANGE?



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

The 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.

SychemCHANGE

Our dual access animal transfer station

- ✓ **Active Airflow Technology**
- ✓ **Class-leading Flexibility**
- ✓ **Ergonomic Excellence**

Active Airflow Technology

Sychem's dual access animal transfer station utilises Sychem's Active Airflow Technology to provide a clean working environment. H14 HEPA filters supply a laminar downflow onto the worksurface, ensuring a barrier of protection between animal and operator, limiting the potential for cross-contamination and maximising staff safety.

The importance of the protection of animals, staff and research is paramount. To ensure this, SychemCHANGE uses ISO Class 3 Airflow to provide the crucial protection required. Active Airflow Technology protects animals from external pathogens and cross-contamination when performing cage changing and minor procedures. Our SychemCHANGE workstation also protects users from pathogens and laboratory animal allergens (LAA's), to ensure that biosecurity levels within a facility are never compromised.



SychemCHANGE offers the best height range on the market.

SYCHEMCHANGE



Class-leading flexibility

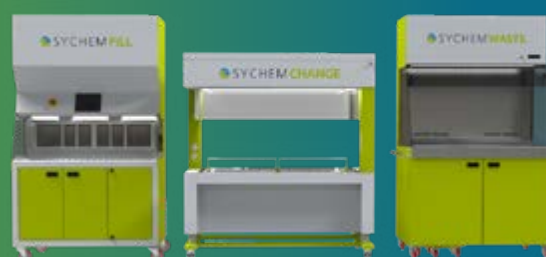
Designed as a dual access workstation, the unit is compatible with all sizes and types of rodent cages on the market. SychemCHANGE features a fully reversible TRESPA® worksurface, available in either a fixed raised or lowered position. The two reversible panels allows users to clearly distinguish between the clean and dirty sides. The machine features a user-friendly 7" colour touch screen used to control the Airflow, LED lighting, the unit's height and enable red light mode when required.

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 driven legs can be seamlessly raised or lowered, maximising the user's comfort levels and simplifying the cleaning process.

AIRFLOW RANGE

SychemCHANGE is part of our Airflow Range, a trio of systems that also includes SychemFILL – a free flow bedding dispenser and SychemWASTE – a bedding disposal unit.



How it works



Active Airflow Technology

A filtered laminar airflow creates a downflow of H14 HEPA filtered air onto the work surface. ISO Class 3 airflow ensures a barrier of protection between animal and operator, limiting the potential for cross-contamination and maximising staff safety.



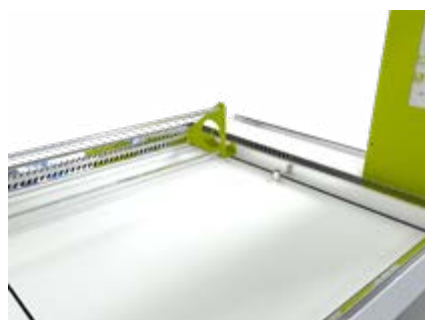
Ergonomic Excellence

With the best height range on the market, Sychem's dual access animal transfer station is suitable for any user. The unit's electrically driven legs can be seamlessly raised or lowered at the touch of a button to maximise the user's comfort levels and simplify the cleaning process.



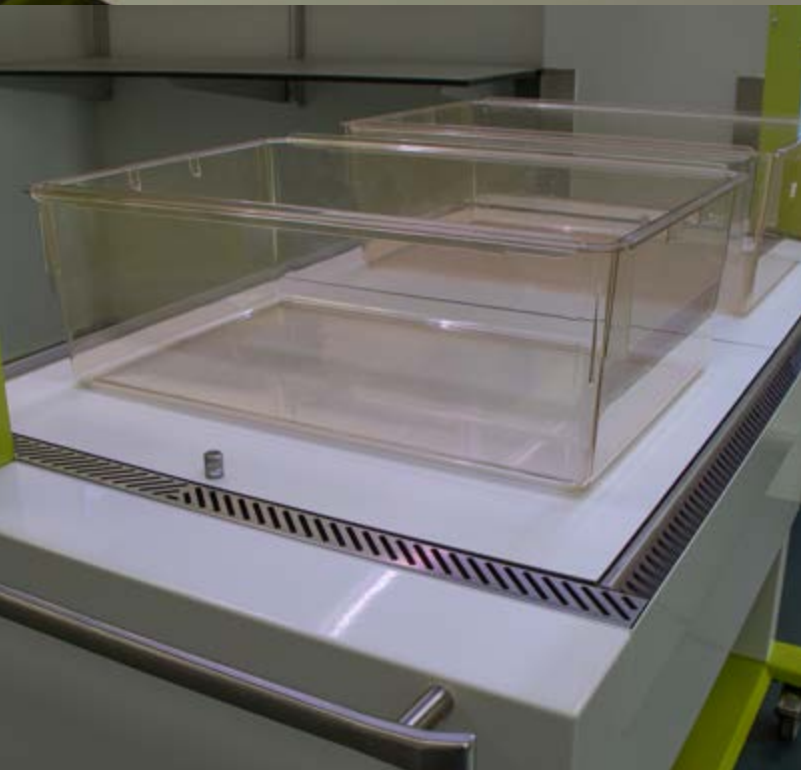
Intuitive Touch Screen

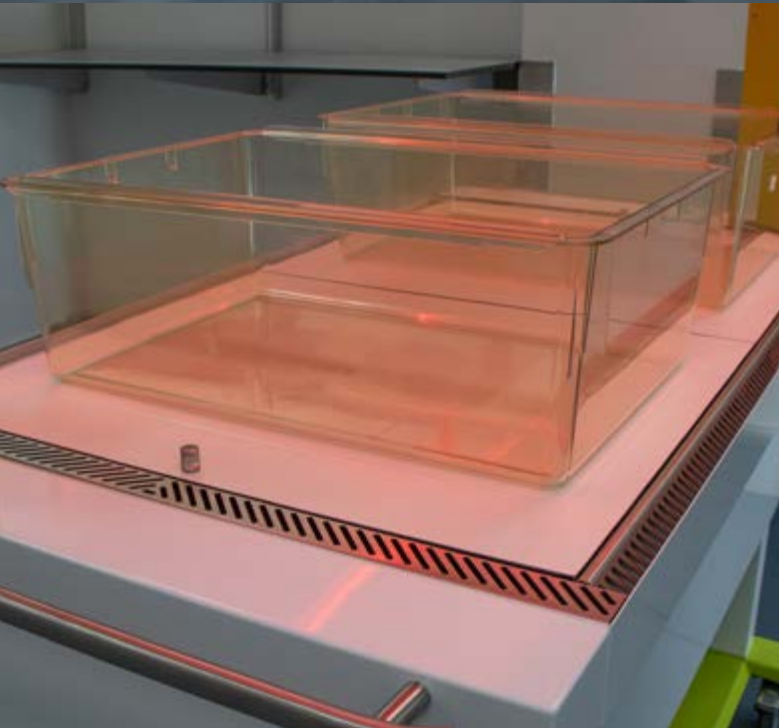
The 7" colour touch screen offers a user-friendly interface (UI) and universal icons, allowing the technicians quick access to controls at a glance—UI available in multiple languages.



TRESPA® Worksurface

SychemCHANGE's TRESPA® worksurface provides a chemical & impact resistant worktop and offers users a quiet, nonreflective surface. As a fully reversible worksurface, it can accommodate various cage sizes. Clients can order the worksurface in either a fixed raised or lowered position.



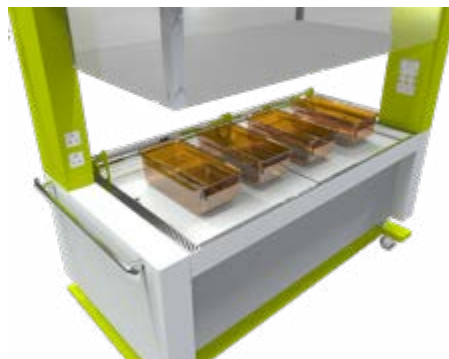


How it works



Light Trace Technology

Sychem's unique Light Trace Technology monitors the presence of light in your facility, shifting the unit to dark mode in order to prevent sleep cycle disruption. Light changes are logged by the unit.



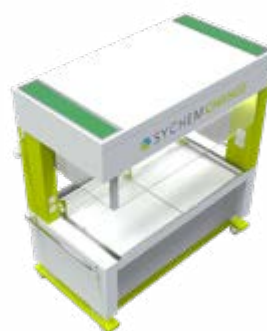
Easy Cage Change

SychemCHANGE has a large work area, ideal for various rodent cage sizes. The cage lid holder supplied as standard enables quick, aseptic cage changing. The unit is perfect for complete, base-only cage changing and cleaning procedures.



Red Light Mode

Red light mode changes the unit's LED task lighting to red, and shifts the touch screen to a red and black graphical interface, preventing disruption to the animal's sleep cycles.



Maintenance Made Easy

The animal transfer station's modular design guarantees ease of maintenance. A range of clever design features makes everyday unit cleaning effortless for staff and saves valuable time.



Standard features

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



Accessories

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

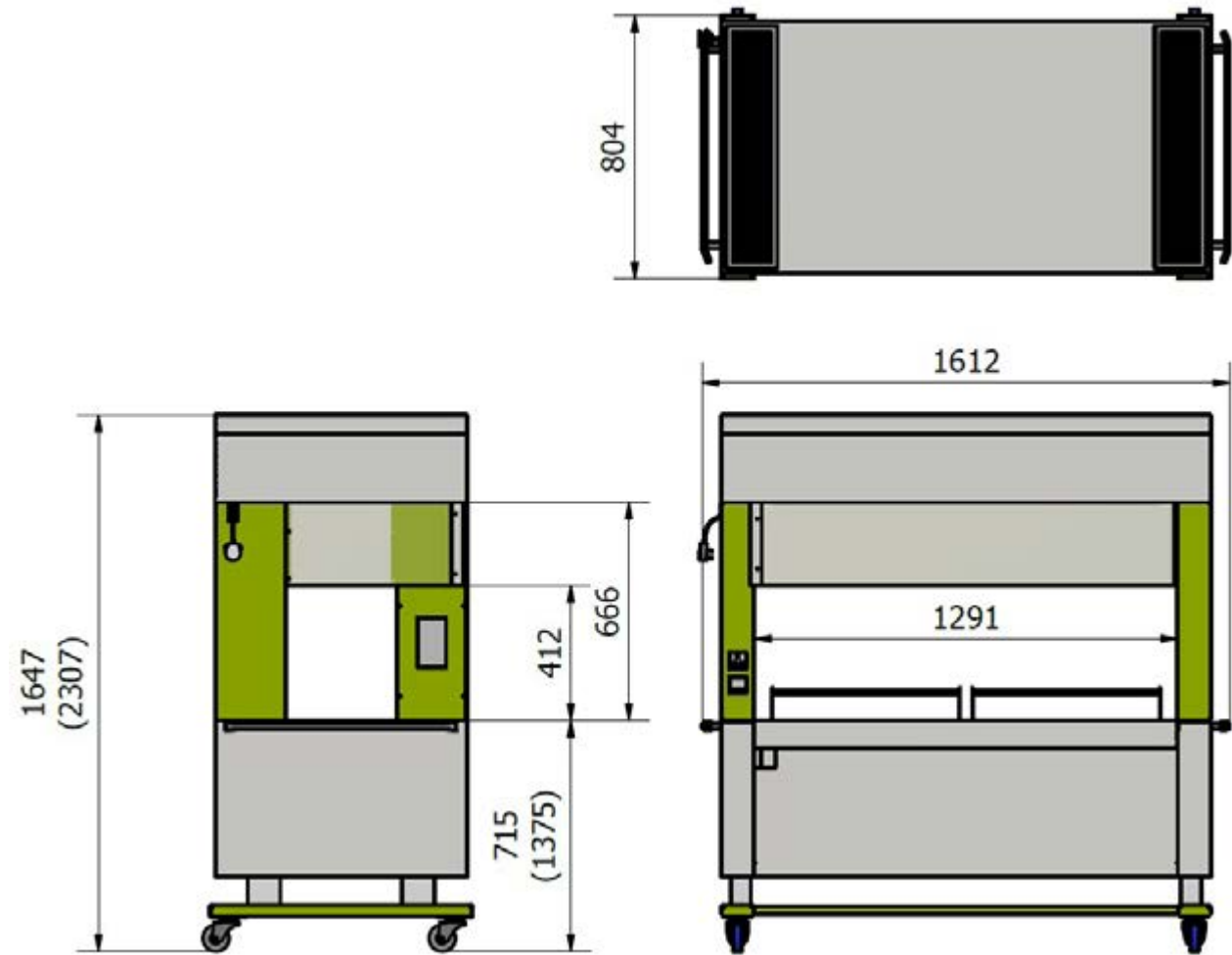


Technical information

Dimensions			
Dimension Description	Inches	mm	
Width	63.46	1612	
Height	64.84	1647	
Raised Height	90.82	2307	
Depth	31.65	804	
Largest Cage (Height)	15.74	400	
Work Area	Width	Depth	Height
Level	1203	682	666
Dipped	1203	682	707

Weight		
Unpacked Weight	lbs	kgs
	580	263

Noise	
Noise	dB
Fans only	60



Why choose 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.

SYCHEM WASTE

SychemWASTE

Our stand-alone bedding disposal station

- ✓ **Active Airflow Technology**
- ✓ **Unrivalled Cleanability**
- ✓ **Vast Cage Compatibility**

Active Airflow Technology

Sychem's Active Airflow Technology extends to protect users at worksurface level, and when tying off and removing waste bins. 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, and protecting users from any laboratory animal allergens (LAA's) released during this procedure.



SychemWASTE is a flexible, easy to use bedding disposal unit.



Optimise Your Workflow

The system features an ergonomic design that allows users to 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.

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, even by non-technical personnel. It is a lightweight machine that will easily fit through any standard door. Supplied with a single chute, sliding tabletop, scraper, bin and trolley, SychemWASTE comes with all the necessary components.

AIRFLOW RANGE

SychemWASTE is part of our Airflow Range, a trio of systems that also includes SychemFILL – a free flow bedding dispenser and SychemCHANGE – a dual access animal transfer station.



How it works



Three Stage Filtration

The SychemWASTE station 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.



Universal Cage Compatibility

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 dispense volumes accordingly.



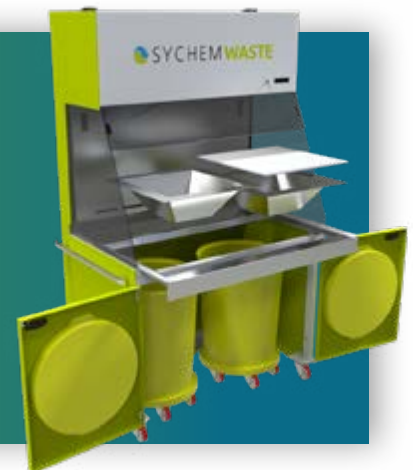
Unrivalled Cleanability

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

DOUBLE CHUTE & SLIDING WORKSURFACE

By selecting the double chute and sliding work surface option, users can benefit from:

- Saving time by swapping bins out less frequently
- An increased choice of user configuration



Customisable Solutions



SychemWASTE XL

Custom-built, automated waste disposal unit

We can offer fully customisable solutions, including our SychemWASTE XL.

SychemWASTE XL was developed by our R&D department as a custom-built, automated disposal waste station for a large Biomedical client, to assist with their animal husbandry needs.

No task is too big for a member of the Sychem team, with the ability to create completely customisable options for the entire Airflow range!

Based on the requirements of your facility, Sychem can create a machine specifically tailored to you.





Standard features

- One stainless steel chute
- One bin and trolley
- Knockout bar
- Three stage H14 HEPA filtration
- Magnetic scraper
- Left side handle



Accessories

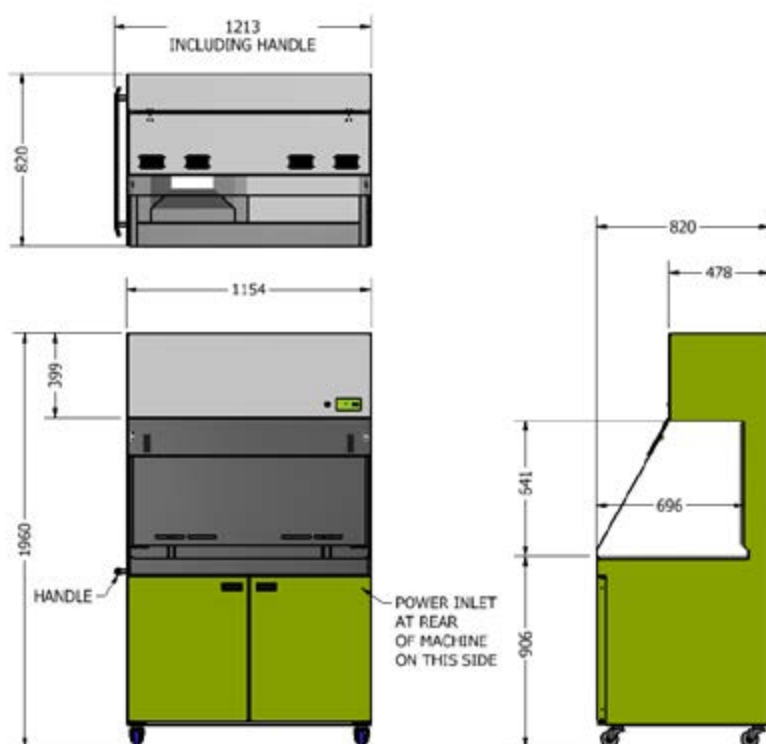
- Second chute with knockout bar
- Sychem bin(s)
- Side handles
- Exhaust thimble
- Magnetic bumpers
- Additional scraper
- Additional worksurface
- Colour coded bins
- Right side handle

Technical information

Dimensions			
Dimension Description	Inches	mm	
Width (with handle)	47.8	1213	
Height	77.2	1960	
Depth	323.3	820	
Largest Cage (Height)	13.78	350	
Bin Capacity	Cubic Inch	CC	Litres
Full lined bin	7323	120000	120

Weight		
Unpacked Weight	lbs	kgs
	419	190

Noise	
Noise	dB
Fans only	57



CAGE COMPATIBILITY

SychemWASTE's open work area allows for rodent cages of various sizes to be easily emptied, and the sliding worksurface allows users to break down complete cages.





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