



THE QUEEN'S AWARDS
FOR ENTERPRISE
INTERNATIONAL TRADE
2022



Safety Range

MICROBIOLOGICAL SAFETY CABINETS

The all-new Sychem **Safety Range**, designed for all biological, microbiological, and tissue culture materials.

SychemSAFETY

Key Features

Customisable Solutions

Energy Saving Benefits

Technical Information



Contact us today!

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Why choose SychemSAFETY?



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

The SychemSAFETY cabinet 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.

SychemSAFETY

- ✓ Active Airflow Technology
- ✓ Efficient HEPA Filters
- ✓ Flow Sensors

Active Airflow Technology

A filtered laminar airflow creates a downflow of HEPA-filtered air onto the work surface. This limits the potential for cross-contamination and maximising staff safety, where 70% of airflow is recirculated through the main HEPA filter. This then provides the downflow protection, and 30% exits out through the HEPA filter to the exhaust.



SychemSAFETY offers a vast range of customisable options.



Efficient HEPA Filters

110 mm HEPA filters with efficiency at 99.999% against 0.3 μm particles, ensuring 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.

Unique laminator/diffuser technology gives turbulent-free air flow, protecting your samples against particle contamination.

AIRFLOW RANGE

SychemSAFETY is part of our Airflow Range, a collection of five systems that also includes: a free flow bedding dispenser, a bedding disposal unit, a dual access animal transfer station, and an air shower.



Key Features



Wide Section Worktops

Sectional worktops can be provided in different sizes from 300 mm to 1800 mm, and in AISI 316 to enable SychemSAFETY to be configured to your exact practical requirements.

Sectional 300 mm worktops allow loads of up to 50 kg.



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 cabinet, including changing the HEPA filters, PCBs, and sensors, and adjustments/ monitoring of alarms and fan speed.

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

OTHER OPTIONS

Numerous other options are available, ranging from different valve types, sinks, the interior in AISI 316 instead of AISI 304, heat plate zone system, PIR sensor, Bunsen burner, LED light, mounting of microscope etc.



Customisable Solutions



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.



- 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





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 operator comfort

- New features of the range include: New innovative EC fans and optimized air flow, contributing up to a 6 dB(A) reduction in the noise level. (Compared to previous models).

For SychemSAFETY that equates to a 47 dB(A) noise level at factory settings and 37 dB(A) in Eco-save mode.**

- V-shaped angled inflow grills allowing a comfortable working position whilst preventing restriction of the airflow.

- Panoramic front & side windows for ultimate supervision and glare-free lighting, giving a comfortable stress-free working environment.

- Diffused laminator allows shadow-free, variable light distribution within the chamber.

- The integrated control panel with LCD display is conveniently positioned for ease of viewing and operation, ensuring optimal performance and safety characteristics at all times.

* Compared to previous Sychem models.

** According to EN 11201.

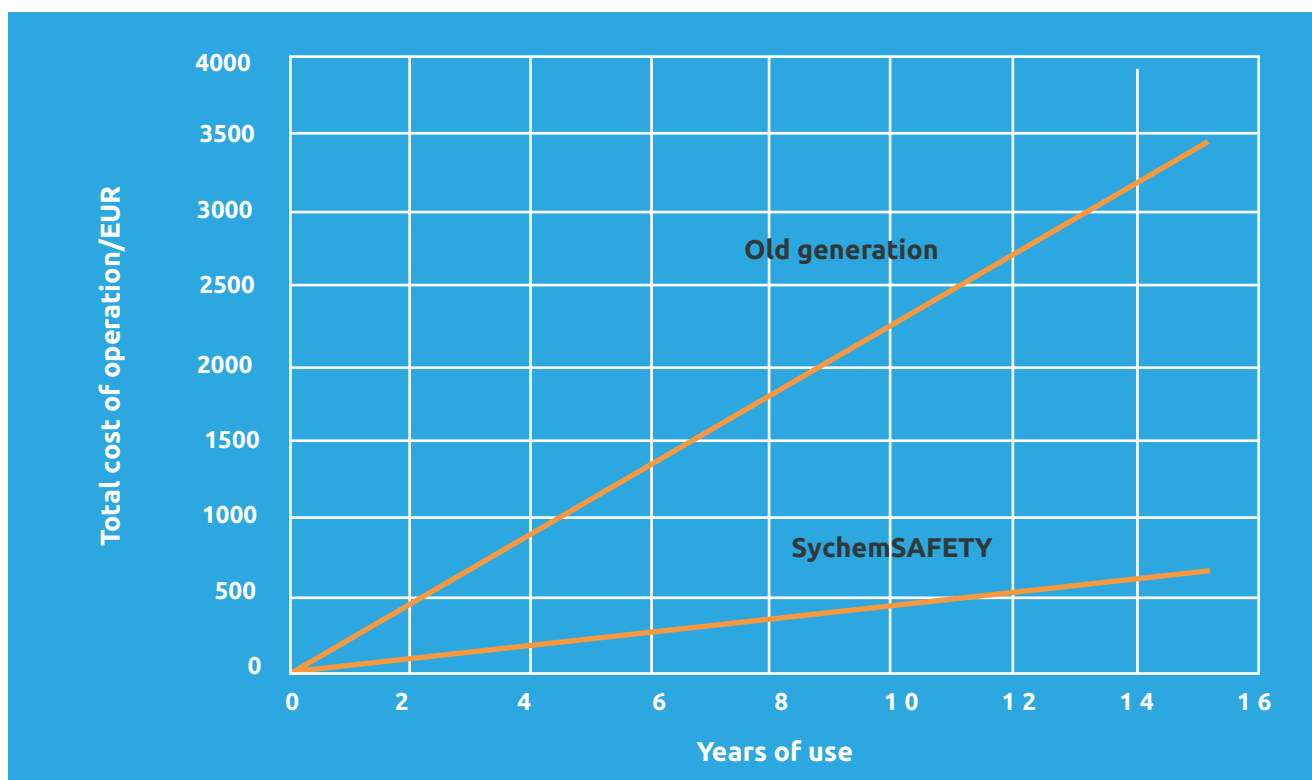
Energy saving benefits

New Features of the range - now available with the new innovative EC fan motors and optimised air flow.

For SychemSAFETY, this equates to an energy consumption of 92* Watts at factory settings and 30 Watts in ECO mode. This incremental innovation makes the SychemSAFETY cabinet range some of the lowest energy consuming cabinets on the market.

The innovation of using several low energy EC fans in the cabinet allows for a less restricted construction and a reduction of annual operating costs, whilst at the same time allowing for the use of the 110 mm HEPA filter, equating to a 50% longer filter life.

Low energy consumption results in less heat transmission to the work chamber and to the laboratory or research facility, contributing significantly to a reduction of overall energy costs.



Annual energy savings when comparing SychemSAFETY to old equivalent cabinets in the industry

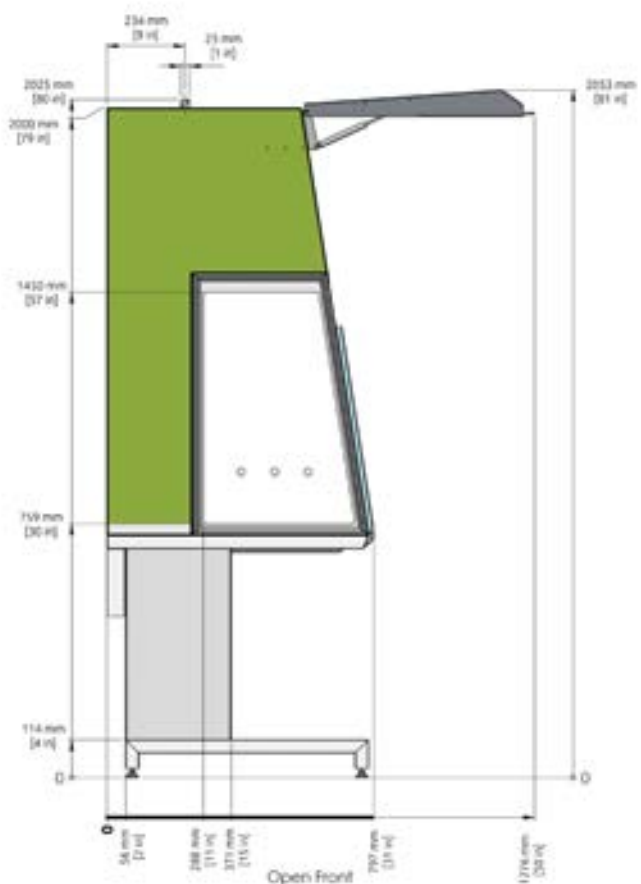
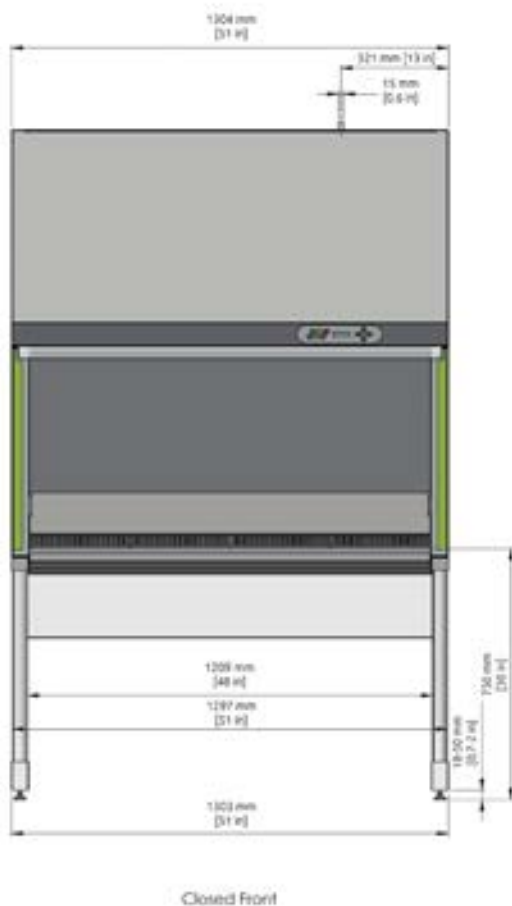
	Power consumption/W	Energy consumption/kWh**	Costs in EUR/year***	Costs/15 years****
Old generation	420	739	229	3.437
SychemSAFETY	92	162	50	753
Reduction of overall energy costs			78 % saving EUR 2.684	

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



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 provide a clean working environment.

- 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. This is a mandatory requirement of any animal facility to protect technicians against laboratory animal allergens (LAA'S).

- Unrivalled cleanability
- Three stage filtration
- Double chute option





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- Efficient HEPA filters
- Flow sensors
- Customisable solutions



SychemAIR

It is a self contained unit that utilises high efficiency air flow to effectively remove all types of contaminants from every individual, reducing their contamination level before passing into a lower contamination area. SychemAIR features a compact design, a customisable layout, easy maintenance and a flatpack delivery option.

- Particle removal excellence
- Three levels of filtration
- Easy maintenance



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.



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