



AUTOMATION CONTAINMENT

Automation Containment Solutions
for Advanced Robotic Systems



CONTAINED AIR SOLUTIONS

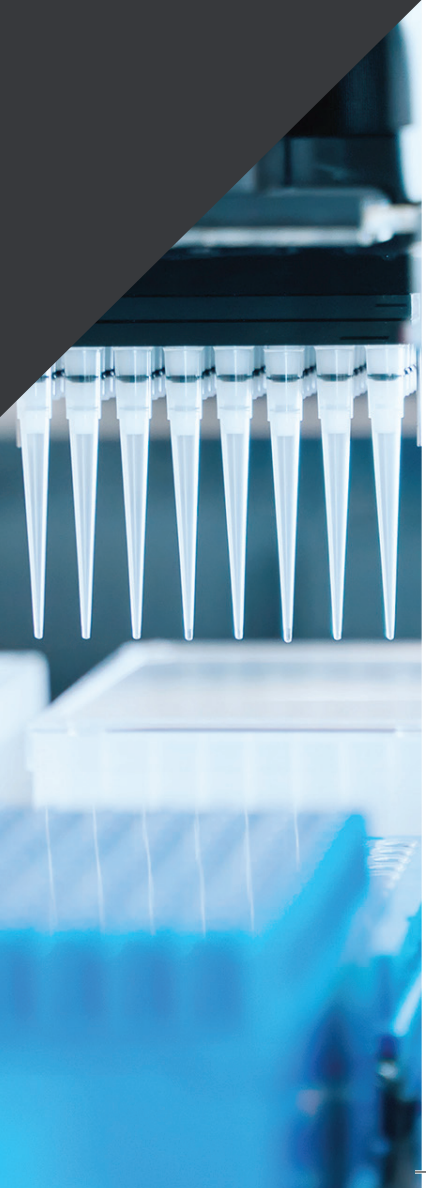
15,000+ PRODUCTS DELIVERED 40+ YEARS OF EXPERIENCE

Contained Air Solutions is the UK's largest manufacturer of biological safety cabinets, clean air, and containment solutions. We are dedicated to delivering innovative solutions that enhance safety, improve process efficiency, and support the success of our customers.

From fully bespoke solutions to standard in stock models, laboratories, cleanrooms, pharmaceutical, and research facilities around the world trust us to deliver solutions that safeguard health, protect critical work, and advance scientific progress.

We are committed to providing you, our customers, with a seamless, end-to-end experience. With a free consultation and design service, we ensure your solution is perfectly tailored to your needs. From design and manufacturing to installation, ongoing maintenance, and lifetime product support, you can trust our comprehensive in-house solutions to deliver the highest level of service and complete peace of mind—every step of the way.

Now proud to be part of the Breeze Group, uniting leading expertise and innovation in cleanroom and laboratory solutions.



YOU, OUR CUSTOMERS, ARE AT THE HEART OF EVERYTHING WE DO

That's why you'll receive:

- **FREE Consultation** – And an on-site survey to ensure your needs are fully understood before you receive a no-obligation quote
- **FREE Design Service** - Our expert design technicians will work with you to create your perfect solution
- **FREE Product Training** – We will provide dedicated support to help you master your new equipment
- **Inclusive Warranty** – 3-year parts and labour warranty (UK) and 1-year parts warranty (Global) as standard, with option to extend alongside our comprehensive service packages
- **Full Project Support** - A fully comprehensive, in-house solution delivered by us at every stage (no third parties), ensuring you have a seamless end-to-end experience
- **Lifetime Product Support** – With accessible technical advice, tailored service packages, and in-stock spare parts, we ensure you and your equipment are fully supported throughout its lifetime.

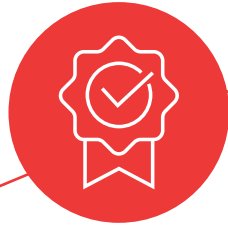
ENHANCING SAFETY AND EFFICIENCY WITH ADVANCED CLEAN AIR AND CONTAINMENT SOLUTIONS

Robotic Biological Safety Cabinets and Enclosures are expertly designed to create safe, controlled environments for robotic instruments and automated processes.

Whether you need a bespoke solution for a complex automation workflow or a standard model that integrates seamlessly with your existing systems, you can trust Contained Air Solutions to deliver advanced, precision-engineered solutions that protect your processes, personnel, and products.

Applications Include

- **Containment of Hazardous Biological Materials:** Safely manage pathogens, airborne particulates, GMOs, and infectious agents during automated handling.
- **Sterile Workflows:** Ensure sterile environments for sensitive procedures, such as cell culture and DNA extraction, with robotic handling.
- **Chemical and Biohazardous Waste Management:** Contain hazardous materials and waste during robotic processes to prevent exposure and contamination.
- **High-Risk Research and Select Agents:** Securely contain high-risk substances in controlled environments for research or pharmaceutical applications.
- **Automated Pharmaceutical and Biotech Manufacturing:** Maintain precision, sterility, and safety in automated preparation and processing of biological and pharmaceutical materials.
- **Volatile and Hazardous Liquid Handling:** Safely manage hazardous liquids or chemicals during robotic operations.
- **Flow Cytometry:** Provide a secure and sterile environment for automated flow cytometry systems, ensuring precision and containment during cell analysis and sorting processes.



Safety

Complies with EN 12469:2000 and NSF49 standards, with H-14 (standard) HEPA filtration efficiency to EN 1822-1, and can provide a ISO 14644-1 clean air environment.



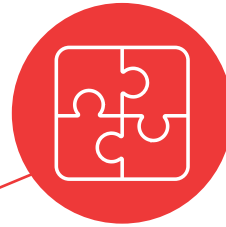
Efficiency

Equipped with energy efficient EC fan technology, LED lighting, mobile equipment servicing stations, UPS integration, BMS connectivity, comprehensive service connections, and various options for accessibility.



Advanced

Features high-quality construction, touch screen control, and real time airflow status display. Integrable UV sterilisation with auto-timer, live airspeed monitoring, temperature control, dimmable and colour choice lighting, and API connection.



Solutions

Customisable and fully bespoke designs tailored to suit any application, from single piece robotic equipment, to fully integrated automation systems. Along with a wide range of optional accessories and configurations.



Certificate 7395

CLASS 1 & 2 ROBOTIC BIOLOGICAL SAFETY CABINETS

Robotic Biological Safety Cabinets are available in Class 1 (operator and environment protection) or Class 2 (operator, product, and environment protection) configurations.

Complying with EN 12469 and NSF49 safety standards, these advanced solutions are expertly designed to accommodate robotic instruments and automated processes, ensuring a safe, secure, and controlled environment.

Class 1 and 2 Biological Safety Cabinets are suitable for work with all biological agents up to ACDP Hazard Group HG3 and Biosafety Level BSL-3.

Compliant with EN 12469 and NSF49

ISO 14644 Class 4 Clean Environment



**High-Efficiency
Filtration**

Variable Speed Fans

**UV
Disinfection**

Touchscreen

**LED
Lighting**

**Fumigation
Ports**

**Access
Panels**

**Service
Connections**

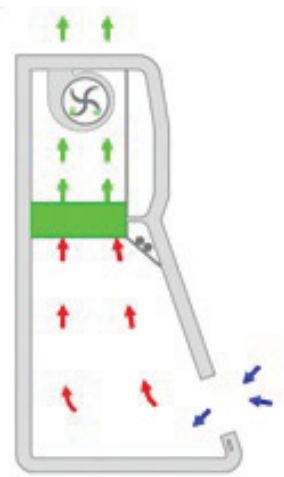
Machine Guard

Sliding Platform

Support Stand

Have a feature in mind that's not shown here? Contact our experts to custom design your perfect solution.

SEAMLESSLY INTEGRATE WITH ANY ROBOTIC EQUIPMENT



Class 1 Airflow

Operator and environment protection

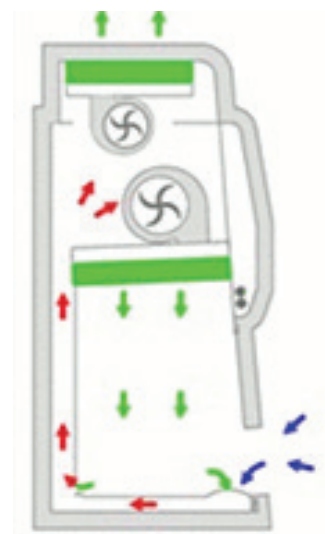
Inward airflow travels through the open front, over the worksurface and is filtered before being discharged either by releasing back into the room (recirculating) or through a building extract system.

Blue: Inward environment air | Red: Unfiltered air | Green: Filtered clean air

Class 2 Airflow

Operator, product and environment protection

Inward airflow travels through the open front and is directed underneath the worksurface. From there, it is filtered and delivered as laminar downflow air to the working area. The air is then drawn back under the worksurface, where it mixes with the incoming airflow. This mixture is channelled through the return air plenum, with approximately 70% recirculated as downflow and 30% discharged from the cabinet. The discharged air can either be released back into the room (recirculating) or through a building extract system.



PRODUCT SPECIFICATION

Typical specification based on standard class 2 model

Product specific technical data to be advised during consultation/design stage

Cabient Size	1200mm	2000mm	2500mm	3000mm
External W/D/H (mm)	1200 / 1050 / 2670	2000 / 1500 / 2670	2500 / 1500 / 2670	3000 / 1500 / 2650
Internal W/D/H (mm)	1030 / 900 / 950	1830 / 1100 / 950	2350 / 1100 / 950	2850 / 1100 / 950
Exhaust air volume m3/s	0.15m3/s	0.27m3/s	0.34m3/s	0.42m3/s
Noise level Dba @ 1m	<65dB	<65dB	<65dB	<65dB
Light level	750 Lux	750 Lux	750 Lux	750 Lux
Duct Connection	200mm	200mm	250mm	250mm
Voltage AC	110 - 230V			
Filtration	H-14 HEPA @ 0.3μ 99.995% efficiency (ULPA and carbon available)			
Construction	2mm mild steel			
Finish	White RAL 9016			
Work Surface	Grade 316s Stainless Steel powder coated White RAL9016			
Side Windows	12mm UV resistant cast acrylic			
Front Visor hinged	Mild Steel powder coated white RAL9016 C/W 8mm acrylic vision panel			
Standard	Designed to comply with EN 12469, ISO 14644, NSF49 standards			

Recirculating, Ducted, Thimble, and TriMAT Bypass models available

Secure your safety

To maintain optimal performance and protect your personnel and processes, regular maintenance is essential—required every 12 months. At Contained Air Solutions, we offer comprehensive service packages to keep your equipment operating at peak efficiency and your work environment fully safeguarded.



WolfLabs

Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.