



BASSAIRE

IS CLEAN AIR

Over 50 years

The longest established cleanroom company in the UK



| cleanrooms



| laboratories



| clean air products



| servicing

www.bassaire.co.uk

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Local service

Manufacturing takes place at our head office in Southampton on the UK south coast.

From here, equipment can be custom built for any application.

Realising that customer service is paramount, Bassaire has established regional offices staffed with experienced industry professionals to guarantee a truly nationwide coverage.

With this local service the client can benefit from our ability to control costs both during installation and for long term support.



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Company profile

Bassaire has been providing clean air to all market sectors for over 50 years and is the longest established cleanroom company in the UK.

Bassaire is responsible for many of the breakthroughs that are now considered industry standard and worldwide patents have been held for items such as Fan Filter Units, Transfer Hatches and Microbiological Safety Cabinets.



Early Bassaire isolation unit



Our philosophy has always been to provide engineering solutions to our clients unique needs that meet the requirements of cost, timescale and quality.

This pedigree continues into the 21st century and defines Bassaire as Clean Air.

Commitment to quality

Bassaire is proud to hold accreditation to ISO9001 which gives the customer peace of mind that all of our products and installations are manufactured under stringent quality management systems.

Our commitment to quality does not stop there. The very nature of the industries we serve demands that each and every member of our staff takes a personal responsibility to ensure that our product quality always surpasses expectations.

Our Health and Safety record is the envy of the industry having over no reportable accidents in our entire History since 1954.

As an active member of the TC209 ISO 14644 international standards for cleanrooms committee and working group 7, Isolators and glove boxes, as well as being a member of the UK pharmaceutical isolator group and S2C2, Bassaire is ideally positioned at the forefront of the clean air industry.



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BASSAIRE

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Main products and services



Cleanroom design and build



Laboratory installations



Isolators and gloveboxes



Laminar airflow



Fume cupboards and wet benches



Furniture and ancillaries

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Main products and services



Service and validation



Transfer hatches



Containment booths



Custom products



Softwall and portable cleanrooms



Microbiological safety cabinets

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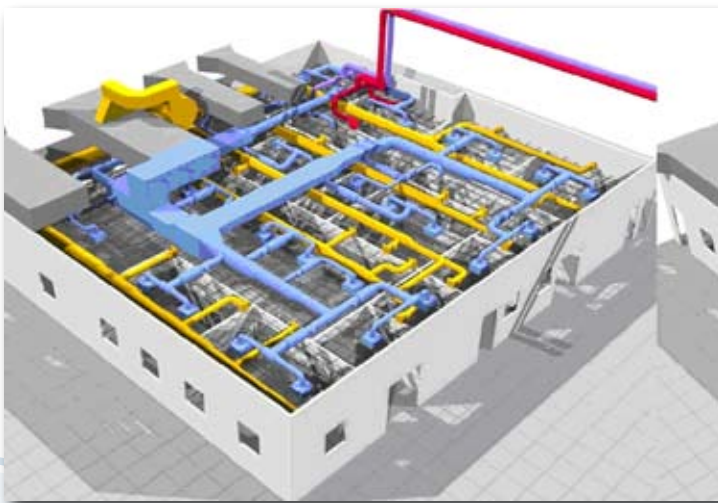
Cleanroom design and build

Bassaire has over 50 years experience in the design and installation of clean and controlled air environments.



Whether the requirement is for a large turnkey project with a full complement of mechanical and electrical services or for a small localised clean environment, Bassaire's total capability offers a 'single source' responsibility in cleanroom project control.

Our combined capability as one of the leading clean air equipment manufacturers allows complete integration throughout the design of the facility.



Our extensive experience has involved solutions for many different industries and our capabilities include installations from the more common positive pressure environment to aseptic suites and negative pressure containment laboratories.

Our project team has at their disposal the very latest in design tools including full 3D CAD modelling and computerised airflow simulation packages.

Whatever the application, Bassaire has the solution.

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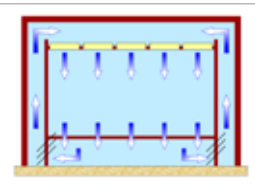
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Cleanroom design and build



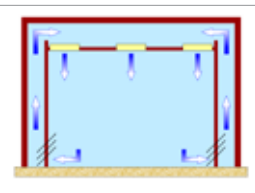
Vertical laminar flow

Beagle 2 space project, clean area at ISO Class 3 with full filter ceiling and raised floor giving full unidirectional flow.



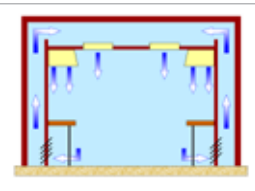
Conventional flow

ISO Class 6 cleanroom Unidirectional flow with low level side entry return air path.



Mixed flow

Pharmaceutical production area at ISO class 7 with combined conventional flow and localised class 5 Laminar Flow with Low level side extract.



Users include:

- Aerospace
- Agriculture
- Bio-Technology
- Brewing
- Chemical
- CD & DVD Production
- Computer Disc Drives
- Communications
- Defence
- Electronics
- Film Industry
- Food Processing
- Government
- Horticulture
- Hospitals
- Injection Moulding
- Instrumentation
- Lasers
- Life Sciences
- Medical
- Nanotechnology
- Nuclear Engineering
- Optical
- Pharmaceutical
- Photonics
- Radio Pharmaceuticals
- Research
- Semiconductor
- Universities

Whatever the industry, our Project team has a wealth of experience in all classes and types of cleanroom and can provide high quality, cost effective solutions to any application.

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Products

Laboratory installations



Our project team is as experienced and skilled in the design and construction of laboratories as it is in the installation of cleanrooms and the same 'single source' approach is applied. Bassaire has an enviable track record in supplying the education, medical, life science and pharmaceutical industries with bespoke laboratories to suit any need.

Where hazardous materials are an issue, Bassaire has a good track record in the design and installation of ACDP containment laboratories.

Laboratories are fitted with a range of standard and specialist furniture and services to provide a state of the art modern facility with the flexibility to adapt to future developments. Laboratories can be integrated with cleanroom installations or with office fit-outs within the same contract to simplify the supply chain.



Softwall and portable cleanrooms

For less permanent or more flexible needs, Bassaire can offer a range of portable options from clean air tents to more traditional softwall cleanrooms. These units can be positioned to give higher standards of cleanliness within an existing cleanroom or stand alone clean areas within more general facilities.



Where additional facilities are required externally, cleanrooms can be built within portable cabins or trailers to provide fully functioning areas for any type of industry.

All units are built to the highest quality and conform to ISO14644-1.

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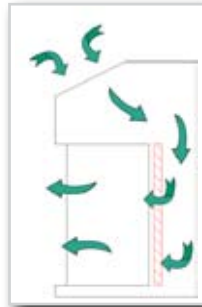
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Products

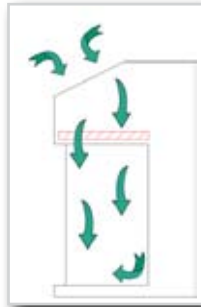
Laminar airflow

Designed to protect product and operating staff by maintaining a dust free ultra clean environment, our range of laminar airflow equipment combine safety and reliability with ease of use.

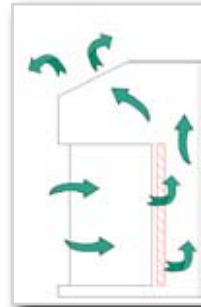
Each of the three standard models are available with a choice of four airflow modes; vertical laminar flow, horizontal laminar flow, reverse-horizontal and reverse-vertical flow. and are available in a range of sizes and options.



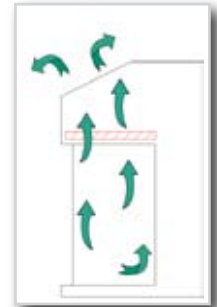
Horizontal flow



Vertical flow



Reverse horizontal flow



Reverse vertical flow



The P, A and K ranges are fitted as standard with HEPA Filters efficient to 99.997% against 0.3µm particles giving ISO class 5 as standard.

Many other standard options are available, as well as the opportunity to have any of our standard models 'custom-built' to suit your requirements. Please go to our website (www.bassaire.co.uk) for more information



Canopies can be built to suit specific customer needs where the standard modules are not suitable.

With a range of construction materials available, Bassaire Laminar Flow Canopies provide localised clean air solutions for any requirement.

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Products

Microbiological safety cabinets



Certified by CAMR to EN12469 : 2000, our range of Class II and Class III safety cabinets offer a sensible balance of quality, performance and cost effectiveness with many standard features included on the class II model that many alternative suppliers find hard to beat.

- Mini pleat ULPA filter with 99.9998% efficiency
- Microprocessor based control and alarm system
- Low Energy Consumption
- Automatic Airflow Compensation
- Stainless Steel lined
- Single piece worktop



Class II cabinets

Provide Product, Operator and Environment protection.

Suitable for general microbiological work with agents assigned to biosafety level 1, 2 or 3.

Recommended for most applications

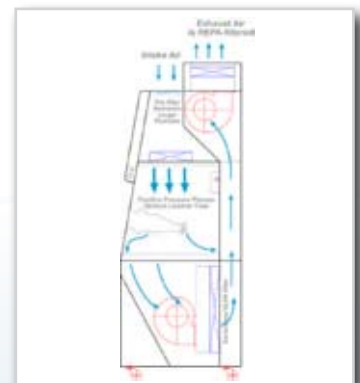


Class III cabinets

Provide the highest level of Product, Operator and Environmental protection from infectious / biohazardous aerosols.

Suitable for general microbiological work with agents assigned to biosafety level 1, 2, 3 or 4.

Recommended for absolute containment



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Products

Isolators and gloveboxes



Designed to offer both operator and product protection within a broad range of industries, Bassaire containment booths are used where a high degree of protection is required from the surrounding environment.

Available either in Powder Coated Mild Steel or Stainless Steel, these booths are manufactured to meet the most stringent of ISO and cGMP standards and protocols.

Fume cupboards and wet benches

Bassaire can provide a full range of British Standard and Bespoke Fume Cupboards and custom built Wet Process Benches to provide controlled environments for chemical handling.

Manufactured from either polypropylene or stainless steel, these units can be configured for specialist acid or solvent applications as well as general laboratory use and can be fitted with a wide range of specialist equipment, sinks and weirs. Bassaire can also provide extract systems to provide the complete installation.



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Fan filter units

Bassaire Laminar Flow Fan Filter Modules offer a versa-tilt and effective air cleaner in a range of sizes.

Units are fully contained with integral pre-filter, HEPA filter and air distribution fan.

The Fan Filter Unit is fitted with fan speed controller to adjust air flows and allow compensation for increasing resistance across the filter.



Transfer hatches



Bassaire can provide a full range of fully interlocked transfer hatches to allow passage of goods into and out of a clean environment.

Durable construction in Stainless Steel, Powder Coated steel, polypropylene or laminated timber allows the hatches to be configured for any application.

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Products

Custom products



Not all innovative applications can be satisfied with off the shelf units and bespoke solutions are required for many of the companies we serve. At Bassaire, we are capable of engineering solutions for any requirement and have worked closely with the end users to provide equipment that exactly suits the needs of the process.



Furniture and ancillaries

As part of its commitment to providing the complete cleanroom and laboratory solution, Bassaire can provide a complete range of furniture and ancillaries to fully complement its installations.



- Benches & Storage
- Air Showers
- Wash Stations & Sinks
- Safety Showers
- Pressure Gauges
- Cleaning Equipment
- Clothing & Consumables
- Tacky Mats
- Stepper Barriers
- Lockers
- Cleanroom Chairs



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Service and maintenance



Regular planned maintenance ensures efficient operation of both cleanrooms and equipment for many years.

Bassaire's team of Service Engineers is highly trained to repair and maintain a wide range of environmental control systems, not just those installed by our project team.

We also offer a comprehensive validation service to ensure compliance to current relevant international standards.

Our services include;

- Regular Inspection visits with a breakdown callout service
- Maintenance of all types of cleanroom
- Maintenance of clean air and containment equipment
- Full in house validation capabilities
- HVAC testing
- Maintain and repair the structure or assembly of your system
- Balance airflows within the facility to maintain the correct room air change rate and pressure differentials

We also carry in stock a wide range of filters and other consumables.

Bassaire can also provide the following protocols to obtain MCA/FDA approvals;

- Design Qualification Protocol
- Installation Qualification Protocol
- Operation Qualification Protocol



Comprehensive reports and certification provided



Guarantee

All Bassaire installations are designed, constructed and inspected to the highest standards to give a long and reliable service and are supported by a comprehensive one year parts and labour warranty.

All warranties are subject to installations undergoing regular maintenance as detailed in the Operation and Maintenance manuals.

Cleanroom Testing and Certification Board Qualified

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Classes of environmental cleanliness

ISO Classification Number US FED 209E Equivalent BS 5295 Equivalent cGMP (operational) Equivalent	Maximum concentration limits (particles/m ³ of air) for particles equal to and larger than the considered sizes shown below					
	0.1 µm	0.2 µm	0.3 µm	0.5 µm	1 µm	5 µm
ISO 1	10	2				
ISO 2	100	24	10	4		
ISO 3 M1.5 (1) C	1 000	237	102	35	8	
ISO 4 M2.5 (10) D	10 000	2 370	1 020	352	83	
ISO 5 M3.5 (100) E or F A (B*)	100 000	23 700	10 200	3 520	832	29
ISO 6 M4.5 (1,000) G or H	1 000 000	237 000	102 000	35 200	8 320	293
ISO 7 M5.5 (10,000) J B (C*)				352 000	83 200	2 930
ISO 8 M6.5 (100,000) K C D				3 520 000	832 000	29 300
ISO 9				35 200 000	8 320 000	293 000

* at rest conditions

Standards

Cleanrooms, products and servicing acquired from Bassaire will comply with the applicable standards:

- ISO 14644-1: Cleanrooms and Associated Controlled Environments, Part 1: Classification of air cleanliness
- ISO 14644-2: Cleanrooms and Associated Controlled Environments, Part 2: Specifications for testing and monitoring to prove continued compliance with ISO 14644-1
- ISO 14644-4: Cleanrooms and Associated Controlled Environments, Part 4: Design, construction, and startup
- FS 209E: Airborne particulate cleanliness classes in cleanrooms and clean zones (withdrawn)
- BS 5295 (withdrawn)
- EN 12469: 2000 Biotechnology - Performance criteria for microbiological safety cabinets
- BS 7258 (Laboratory Fume Cupboards)
- cGMP guidelines (Good Manufacturing Practice)
- FDA (Food and Drugs Administration)
- GLP guidelines (Good Laboratory Practice)
- MCA approvals (Medical Control Agency)
- MDR regulations (Medical Device Regulations)
- ISPE guidelines (The Society for Pharmaceutical and Medical Device Professionals)
- ACDP (Advisory Committee on Dangerous Pathogens)

Products

Bassaire HEPA Filter Specification for Bassaire products

Bassaire supply and install mini pleat HEPA filters capable of passing a PD6609 leak test of less than 0.001% penetration against an upstream concentration of 20-80 µm per litre.

Unless specified all our standard products contain standard size HEPA filtration, with protective mesh both sides, to the following specification:

- FILTER EFFICIENCY: 99.999% @ 0.3 µm
- FILTER FACE VELOCITY: 0.45m/sec

Bassaire supply and install disposable pre-filters to the following specification:

- FILTER EFFICIENCY: 92% @ 5 µm



Human hair
150µm diameter

Pollen 50µm diameter



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Bassaire have provided cleanrooms and clean air equipment for over 50 years and our capabilities span many industries. We can boast an impressive client list of Blue Chip companies, Universities and Hospitals and the following list details only some of these satisfied clients.

Allergen Pharmaceuticals	Deltex Medical	Nampak
Allergy Therapeutics	Diamond Light Source	NFI Electronics
Alps Electronics	Dolland & Aitcheson	Nestle
Aradigm	Fishermans Friend	Open University
Avecia	Fisons	Oxford University
AVX Ltd	Flight Re-Fuelling	Ocular Science
BAT	Forensic Science Service	Patheon
Bacardi Martini	GEC	Petnet CTI
Bausch & Lomb	Glaxo Smithkline	Pfizer
Baxter Healthcare	Global Displays	ProPharma Ltd
Bigneat	Guinness	Rank Xerox
British Aerospace	Heriot Watt University	Rolls Royce
British Nuclear Fuels	Imperial College	Rutherford Appleton Laboratory
Bristol Myers Squibb	Intervet Pharmaceuticals	Scapa Medical
Byrum UK	Ipsen Biopharm	Seward Laboratories
CAMR	Ivex Pharmaceuticals	Shell
Chiron Vaccines	John Innes Institute	Sanofi-Synthelabo
Coca-Cola	Lidco Cardiac Systems	Smiths Industries
ConvaTec	MDA Clinic	Smiths Medical International
Culham Laboratories	Medical Research Council	Surgical Materials Testing Laboratory
DEK	Motorola	TRW Electric Steering
DGP International	MRC Systems	Wellcome Foundation

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