

ESA LABORATORIES



C R E A T I V E E N V I R O N M E N T S

LABORATORY FURNITURE

Scientific research reports that a well organised working environment can have a positive effect on those who use these areas. Innovation at ESA McIntosh contributes to the design of state of the art laboratories by producing furniture that not only complies with all British safety standards but creates practical and appealing work spaces for everyone.

Working with all relevant parties, we have been successful in satisfying the need for a blend of robust furniture with an extended life cycle, which is reliable, economical and flexible. The systems shown here illustrate typical solutions.



RESOURCES

ESA Laboratories is a dedicated division of the Havelock Europa PLC group of companies. Our team combines the expertise of ESA McIntosh – one of Europe’s foremost suppliers of furniture for educational environments – with that of Clean Air – the renowned UK provider of fume cupboards and extraction solutions. Both companies have their own class leading design, manufacturing and installation facilities, and are backed by the financial stability of a UK PLC.

Working to your brief, a team of AutoCad designers are available to illustrate your project in layouts which can be developed from indicative sketches or architect’s drawings. These services are available at no charge if followed by a confirmed order.

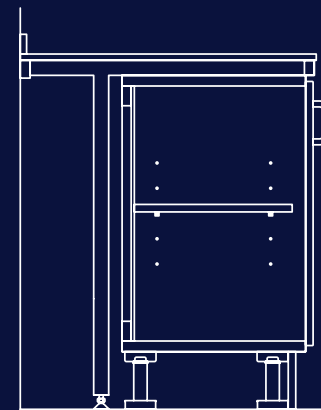
Together, our design and estimating teams take your vision from plan to reality. The estimating team has

years of experience and are expert in understanding your needs, and translating them into an innovative laboratory solution. This gives you the advantage of receiving a detailed quotation offering the best possible prices.

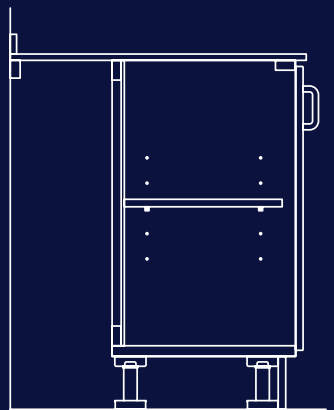
An experienced and professional project manager will be appointed to your project once we receive your order. This is your assurance that you have a single point of contact who knows all aspects of the project, and is there to ensure a straight forward delivery and installation.

Once the project is complete our helpful and efficient customer service team are on call to assist you and take care of any after sales service issues.

With the extensive resources ESA Laboratories has at hand, it is easy to see why our customers see us as a one stop laboratory provider.



The fixed pedestal system is most widely used in laboratories where flexibility is less important. In this type of arrangement the benching is fitted directly to the cabinets below. It is ideally suited for supporting heavy equipment. Access to services is provided via the removable back panels on cupboard and undersink units.



MOBILE



CANTILEVER SYSTEM WITH MOBILE UNITS

Benching in this arrangement is supported entirely on cantilever leg supports. This offers a good degree of flexibility, where underbench storage is entirely independent of the benching and can be provided on castors to allow for complete mobility. Ancillary Equipment can be stored under benches in lieu of cabinets.

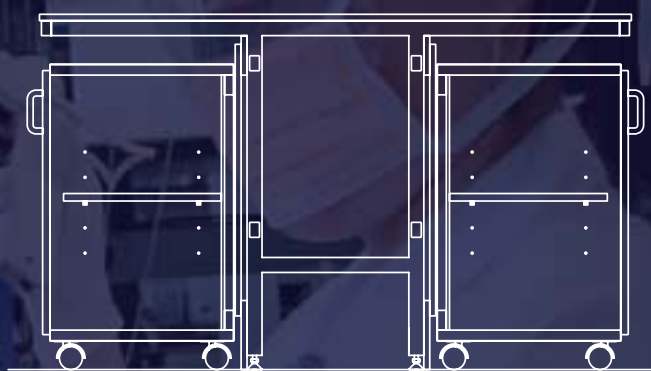
SUSPENDED



VERSATILE



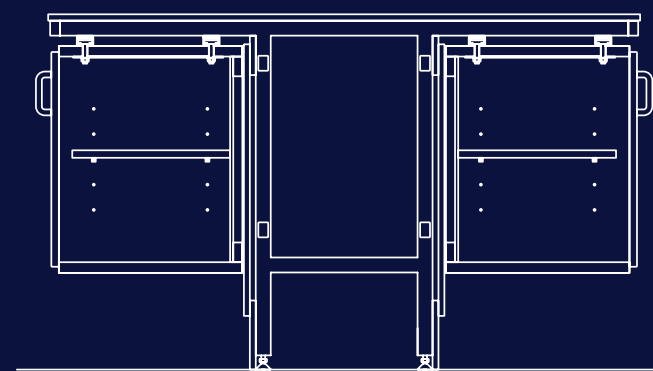
FLEXIBLE



SUSPENDED SYSTEM

The suspended system is designed to allow maximum uninterrupted access to floor space for cleaning. This system is facilitated by unistrut channelling. Leg supports are fitted with tapped plates to take unistrut connecting bolts. Movement of underbench storage along the length of benching is enabled by slackening the suspension fittings.

In areas where strength and support are of prime importance our normal bench support systems are supplemented by 'A' frames.



SPECIALIST FITTINGS

As an accompaniment to our superior benching and storage units we offer a variety of additional equipment essential to the working laboratory.

Service spines and overbench reagent storage are specially designed to offer flexibility and accessibility. Independent shelving in the material of your choice is supported on adjustable cantilever brackets.

Additional service items such as sinks, water taps, gas taps and electrical service pedestals are included in our extensive range of fittings. The most commonly used items are stocked specially to ensure their availability in the case of any accelerated delivery programmes.



WRITE UP AREAS

Supplying a well planned write up area is an important part of the laboratory design. We can provide numerous work surfaces in arrangements to suit spaces of any shape or size.

FUME CUPBOARDS



EXPELLING ALL DOUBTS

The product range has a number of specialist fume extraction units including fixed, semi-fixed and fully mobile units.

FUME CUPBOARD TYPES

- Standard Angle Sided
- Radius Profile (Ultra Containment)
- RAV (Low volume 0.3m/s)
- Walk-in & Distillation

All of the above can be manufactured as

RADIO ISOTOPE

(Radioactive work)

SCRUBBER TYPE

(Aggressive Acid work)

DEMISTER

(Perchloric acid Use)

RECIRCULATING

Filtered HEPPA & Carbon

STANDARD SIZES

- 1200mm, 1500 mm, 1800mm, 2000mm
- Other sizes available on request

INTERNAL MATERIALS

- Liners / Bases
- Solid grade laminate
- 316 Grade Stainless Steel
- Polypropylene - UPVC
- Cast epoxy Resin Cast Ceramic
- Toughened Glass

FULL TEST AND PRODUCT DATA AVAILABLE ON REQUEST



Clean Air is recognised as one of the leaders in the fume cupboard/extraction market. It has an unrivalled reputation for quality and service, and offers a 2 year unconditional warranty on all parts and labour.

The Clean Air "Low Velocity" fume cupboard has been designed to work at varying face velocities ranging from low volume @ 0.3 m/sec, to industry standard 0.5 m/sec and up to 0.75 m/sec high volume for radio-isotope use.

The "Low Velocity" fume cupboard has achieved excellent containment with levels as low as 0.21m/sec with a 500mm sash opening. Clean Air prefer to run our cupboards at a minimum face velocity of 0.30 m/sec.

All of our cupboards are independently type tested to BS7258 – 1994 (containment and Velocity check), robust testing to proposed European norm prEN14175-3, and the American ASHRAE method.



Testing:
 BS7258:1994 Part 4 Containment & Velocity Profiling
 prEn14175 (3) Static Mannequin Test
 prEn14175 (3) Dynamic Test
 ASHRAE Mannequin Test

Containment Results:
 BS7258: Excellent
 prEn14175 (3) Static: Excellent
 prEn14175 (3) Dynamic: Excellent
 ASHRAE Mannequin: Excellent



Fume Extraction
 Clean Air Ltd offer a full design / manufacture service systems are supplied in most materials e.g. UPVC, Poly Propylene, CPVC, GRP coated PVC etc.

WORK SURFACES

EPOXY RESIN White	EPOXY RESIN Light Grey	EPOXY RESIN Black	IROKO Finished to Client Specification		
ATHLON White	ATHLON Silver Grey	ATHLON Icy Blue	ATHLON Sand		
TOPLAB PLUS White	TOPLAB PLUS Silver Grey	TOPLAB PLUS Black	TOPLAB PLUS White Splatter	TOPLAB PLUS Grey Splatter	TOPLAB PLUS Blue Splatter

STORAGE UNITS

CARCASE Light Grey	CARCASE White						
FRONTS Light Grey	FRONTS White	FRONTS Primary Red	FRONTS Burgundy	FRONTS Royal Blue	FRONTS Dark Blue	FRONTS Emerald Green	
FRONTS Dark Green	FRONTS Yellow	FRONTS Graphite	FRONTS Turquoise	FRONTS Saracen	FRONTS Mint	FRONTS Crocus	

FURNITURE COLOURS

The companies which form ESA Laboratories have become synonymous with quality and manufacture to the exacting standards required for laboratory use. We have significant experience and have successfully delivered our promise to many high profile clients including:

PPI Therapeutics	University of Dundee
University of Kent	University of Sheffield
Scottish Environmental Protection Agency	University of Durham
University of St Andrews	University of Southampton
University of Wales	University of Stirling
University of Manchester	Medical Research Council
University of Edinburgh	Scottish Agricultural Science Agency
University of Exeter	Scottish Agricultural College
University of London	University of Nottingham
University of Leeds	



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COMPLETE SOLUTIONS

