



Mach-Aire MSC 2 models set new benchmarks in safety cabinet design and technology. Mach-Aire Ltd Class II safety cabinets incorporate a range of revolutionary features designed to make safety cabinet operation simpler, easier and more comfortable than ever before, creating an inherently safer working environment with maximized contamination prevention for precious samples.



Innovations unique to the Mach-Aire Ltd range include an aerosol-tight, electrically operated sliding front sash window that seals the inner chamber for secure protection from contamination. The window is hinged to allow full access to the interior, permitting thorough cleaning and decontamination and the installation of large items.

A hand-held remote control, used in conjunction with an eye-level digital display on the rear wall, allows easy parameter setting. Operators no longer need to remove their hands from the controlled environment.

Transparent glass side windows ensure unobstructed, all-round visibility, and a unique safety performance diagnostic display alerts users to unsafe conditions. Patented cross-beam germicidal UV irradiation illuminates the entire working area for better disinfection, while the HEPA filter system guarantees maximum absorption of 99.999% at a particle size of 0.3 microns.

The energy-saving stand-by mode ensures outstanding economy when the aerosol-tight front sash window is closed.

Available in 920, 1220, 1520 and 1820 mm (3, 4, 5 or 6 ft.) widths and with a wide range of options and accessories, Mach-Aire Ltd Class II safety cabinets can be fully customized to meet a variety of user-specific needs

APPLICATIONS

- Biotechnology
- Microbiology
- Research
- Tissue Culture
- Tissue Banks
- Pharmacies

FEATURES

- Aerosol tight front window
- Slanted front window
- All round vision
- Automatic product protection
- Optimum protection against contamination

Compliance to national and international safety standards, optimum personnel, product and environmental protection. Designed for ease of cleaning and maintenance—the sum of all the parts adds value to the whole. Whether in the field of genetics, biotechnology, microbiology or research, our safety cabinets perform valuable tasks, day in and day out.

Convenient and safe

The hinged window can be fully opened up for cleaning and disinfection. When closed, it keeps the entire inner area aerosol tight. Rounded edges inside the cabinet make cleaning very easy. The worksurface consists of scratch-proof and acid resistant stainless steel.

HEPA filter system

It guarantees maximum adsorption of 99.999% at a particle size of 0.3 micron. The supply filter covers the entire work area and ensures purified air.



Ease of operation

The clearly laid out eye level display, the brightly lit non-reflecting work area, all functions accessible from a seated position. The display allows permanent monitoring of all safety-relevant parameters.

Information displayed:

- Time
- Downflow velocity
- Total operating hours
- Timer for delayed start
- Stop watch function
- Alarms
- Performance factor

Convenient and easy

All parameters set by remote control. Actual values can be retrieved. Remote control unit equipped with SAFEbag for use inside the work area.



Large Range of Options

Optional equipment includes granite slab inserted in the worksurface for high accuracy weighing.



Standard Fittings

All models come with 4 splash proof 13 amp socket outlets fitted to the rear of the worksurface.



Superior Aerodynamics

Optional equipment includes removable arm rests, to help prevent disruption of the airflow through the front opening.



Products and services for containment and clean air applications

Fume cupboards

Pharmaceutical Isolators

Downflow powder control booths

Clean rooms for NHS Pharmacy, Tissue Banks and industry

ACDP Containment laboratories

Modular clean rooms

Validation and testing

Microbiological safety cabinets

Horizontal and vertical laminar units

Specialised extract systems

Clean room accessories

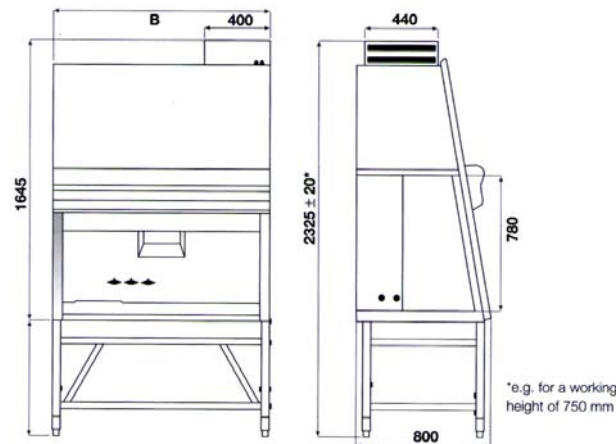
Design & consultancy

Full compliance with relevant national and international standards

TECHNICAL DATA				
MODEL	Bio II-900	Bio II-1200	Bio II-1500	Bio II-1800
EXTERNAL DIMENSIONS mm	1000X1645X800	1300X1645X800	1600X1645X800	1900X1645X800
INTERNAL DIMENSIONS mm	920X780X627	1220X780X627	1520X780X627	1820X780X627
WORKING APERTURE mm	254	254	254	254
WEIGHT (KGS)	190	240	290	340
MAX. WEIGHT ON WORK-SURFACE kgs	50	50	50	50
HEAT EMISSION (WATTS)	200	200	400	400
FILTER EFFICIENCY	HEPA H-14 99.999% AT 0.3 MICRON	HEPA H-14 99.999% AT 0.3 MICRON	HEPA H-14 99.999% AT 0.3 MICRON	HEPA H-14 99.999% AT 0.3 MICRON
NOISE LEVEL SPL dba	>57	>57	≥58	≥58
ILLUMINATION LEVEL (LUX)	>1000	>1000	>1000	>1000
ELECTRICAL DETAILS	230V AC 0.4kW 1.7 AMPS	230V AC 0.4kW 1.7 AMPS	230V AC 0.8kW 1.7 AMPS	230V AC 0.8kW 1.7 AMPS
EXHAUST VOL / FRESH AIR VOL.	380M ³ /HOUR	500M ³ /HOUR	625M ³ /HOUR	750M ³ /HOUR
AIR CIRCULATION VOL.	670M ³ /HOUR	890M ³ /HOUR	1100M ³ /HOUR	1330M ³ /HOUR
TOTAL VOLUME	1050M ³ /HOUR	1390M ³ /HOUR	1725M ³ /HOUR	2080M ³ /HOUR

Optional Equipment

Formalin Vapouriser
Ultra Violet Lamp Sanitisation
Service Valves
Stainless Steel Arm Rests
Additional HEPA Exhaust Filter
Carbon Filter
Support Stand, with Integral Cupboards
Inset Granite Slab
Vari-Lift Support Stand
Inset Mini-Sink
Flexible Duct De-Contamination System
Hanging Rail for Intravenous Bags etc



DATA SHEET 711

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MICROBIOLOGICAL SAFETY CABINETS

CLASS 2 MICROBIOLOGICAL SAFETY CABINET

“Wherever there are cleanrooms and laboratories you will find Mach-Aire products playing an important role in the research and manufacturing programmes of the worlds largest companies and institutions.

Our capabilities, whether in technology, design, safety of operation, construction or service are also fully at your disposal”.



Safety-tested according to

- EN 12469
- BS 5726
- NFX-44
- IEC 1010
- UL 3101-1

New generation Class 2 Microbiological Safety Cabinets, for maximum product and personnel protection

FOR THE NEW CENTURY'S SCIENTIST

DATA SHEET 711