



ARIATM

BIOSAFETY CABINET

The new **ARIA Bio-Safety Cabinet**

TECH48

is the top range class II cabinet
available on the market

**ARIA TECH48 is a new generation
Microbiological Safety Cabinet**



ARIA



TECNIPLAST

*innovation through passion*SM

1/ Double configuration Class II Microbiological Safety Cabinet & Cage Changing

The new ARIA TECH48 is designed for animal research laboratories to guarantee the protection of the operators from the inhalation of infectious particulates, dust, allergens and pathogens as well as an excellent protection of the animals from contaminants by minimising the exposure to aerosols, preserving the environmental safety.

It's configurable by the operator for two different kinds of use. Simply typing a password, the operator can carry out cage changing operations or microbiological activities (by adding the related s/s working surface) in Class II Biohazard configuration complying with the European Standard EN12469 (TÜV NORD approved).

2/ Increased Flexibility and Comfort

The ARIA TECH48 features:

- An automatic slanted sash window adjustable at two different heights (mm 250 in biohazard configuration and mm 290 in cage changing procedure). The window height can be easily adjusted with only a finger tip.
- An electric auto lift system (as option) allows ergonomic positioning for the user during the operating phases (standing or seated mode) as well as to easily transport the unit through normal doorways.
- The unique design of the Tecniplast plenum minimizes noise and vibration providing acoustic comfort for both the operators and the animals, with sound-pressure levels recorded way highly below the parameters specified in the current EN:12469 European Standard for Microbiological Safety Cabinets.

3/ Excellent Safety

The ARIA TECH48 provides a complete operator, product and environmental protection. The pressurized air pushed into the plenum of the motor-fan passes through the HEPA filter (H14) and then downwards, in a laminar flow (Class ISO 4, according to ISO 14644-1), into the working chamber. From here, through the perforated surface, having mixed with the external air which enters the cabinet from the front opening, it is sucked through the pre-filters (G4 efficiency), into the intake up channel situated at the rear of the work chamber. Part of the air (40%) is exhausted through the exhaust HEPA filter (H14). This extracted air let air come in from the outside (front barrier) ensuring the protection of the operator/ environment from hazardous material manipulated in the work area. The performance of the machine complies the European and American standards of Class II biosafety cabinets.

4/ Energy Efficient & Reduced Maintenance Costs

The ARIA Biosafety cabinet is equipped with EC high-performance and superior efficiency motor; the best value in terms of lower energy costs, longer filter life, reduced noise, vibration, and heat emissions. The transparent glass side windows with the ideal positioning and sizing of the LED light-system provide bright and open working environment. In addition, the innovative LED bar is equipped with a dimmer that allows modifying the light intensity as needed. This is particularly beneficial for procedures with light-sensitive mice. Red LED light, as standard, to work at night. When compared to traditional fluorescent lights, LEDs offer higher efficiency and longer life than other sources (40,000 hrs); they are more robust, smaller in size, and faster to light.

5/ Enhanced control panel User Friendly & Easy to Read

The machine is provided with an automatic regulation system to keep the airflow speed in the work chamber and the recycling/extracted air ratio constant even with the progressive clogging of the two HEPA filters up to the maximum pressure supported by the motor-fans. The 4.3" touch screen panel is microprocessor-controlled with a display showing all relevant data with regard to the operating functions, the different alarms and the error messages. The alarms of the cabinet are compliant with EN 12469 norms.

6/ High Cleanability

The ARIA TECH48 is very easy to clean since all the inner and outer surfaces have rounded corners. The unit is supplied with an easy access pre-filters (the U-shaped pre-filter support prevents any escape of dust) located in the rear of panel which preserving the lifespan and the efficiency of the HEPA filters. The whole front of the safety cabinet - which includes the sash mechanism - can also be opened upwards as it is hinged on the top - in order to allow easy access for complete and effective cleaning and decontamination. The AISI 304 work surface (biohazard configuration) as well as the trespa working surface (in cage changing configuration) are easily removable for carrying out routine cleaning and/or autoclaving sterilization procedures.

7/ Accessories & Options

- UV light with magnetic support to be easily installed in the back panel of the working chamber.
- Comfortable armrests enhance your comfort during extended work sessions without compromising the air barrier.
- Additional power socket.
- Service Valves available for Gas, Air, Vacuum, N2 and Water.
- Thimble connection (to allow the TECH 48 to be thimble-ducted to the outside).



ARIA

Biosafety Cabinet

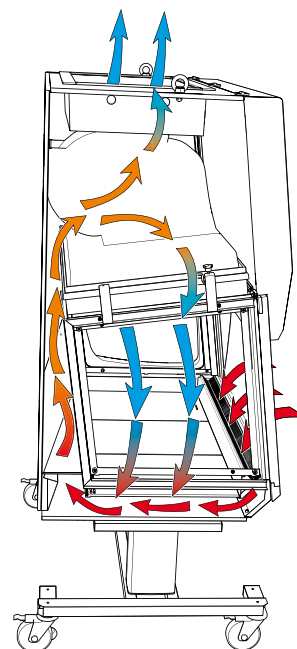
Double configuration Class II Microbiological Safety Cabinet & Cage Changing



Increased Flexibility and Comfort



Excellent Safety



Environment air Pre-filtered air HEPA filtered air

Energy Efficient & Reduced Maintenance Costs

4



Enhanced control panel User Friendly & Easy to Read

5



High Cleanability

6



TECHNICAL SHEET

Overall Dimensions on electrical height adjustable floor stand

(W x D x H) - mm/inch:

1395 x 850 x 1999.5 - 2323.5 mm

54" 7/8 x 33" 4/8 x 78" 6/8 - 91" 4/8 in

Working Chamber Dimensions Change Station configuration

(W x D x H) - mm/inch:

1190 x 140 x average 692 mm

46" 7/8 x 21" 2/8 x average 27" 2/8 in

Access Opening Height - mm/inch:

Changing Station: 290 mm - 11" 3/8 in

BSC: 250 mm - 9" 7/8 in

Maximum Access opening height - mm/inch:

485mm

19" 1/8 in

Weight with electrical height adjustable floor stand - Kg/lbs:

320 kg

705 lbs

Power Supply:

230V-50/60Hz - 100/115V-50/60Hz

Control:

Microprocessor driven with 4.3 TFT touch screen control panel

Classification of Air Cleanliness (according to ISO 14644-1):

ISO 4

Accessories & Options

7



ENVIRONMENTAL SUSTAINABILITY: MINIMIZE IMPACT MAXIMIZING VALUE
 What Tecniplast did to become leader in sustainability:

Company:

- Quality Management System Certification according to ISO 9001 and Environmental Management System Certification according to ISO 14001.
- Certified Environmental Report according to Eni Foundation Enrico Mattei Guidelines.

Products:

- Life Cycle Assessment (LCA) according to ISO 14040 and ISO 14044.
- Carbon Footprint according to PAS 2050.
- Environmental Data Sheet according to ISO 14025.
- Contribution to credits under the LEED rating system.



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To find your local distributor, please visit www.tecniplast.it

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Related Products

To maximise operational efficiency and learn more about these products contact your local representative.



Sealsafe Plus: high containment, certified protection from allergens, high density and practicality of use. The IVC (r)evolution.



Sealsafe Plus RAT: high containment, protection from allergens, high density and practicality of use.



Logistic trolleys offer safety and ergonomic features that enable high load-density for moving cages and bottles, crates, pallets and covers.



GP Decontamination Lock. Full decontamination cycle, with 6 log reduction, in one hour all inclusive. The unit may be used with Vaporized Hydrogen Peroxide generators from different vendors, gaseous Chlorine Dioxide generators and for chemical fogging.

