LAMINAR FLOW AND VENTILATED SOLUTIONS FOR ALL YOUR NEEDS
TECNIPLAST IS THE IDEAL PARTNER AT YOUR SIDE FOR ANIMAL CARE PRODUCTS AND RELATED EQUIPMENT.

OUR CONSTANT INVESTMENT IN TOOLING, TECHNOLOGIES, AUTOMATION, PRODUCTION CAPABILITY, STOCK AVAILABILITY, STAFF RECRUITMENT AND TRAINING, TOGETHER WITH THE ISO CERTIFIED QUALITY AND ENVIRONMENT MANAGEMENT SYSTEMS, ARE THE KEY-FACTORS OF TECNIPLAST SUCCESS SINCE THE EARLY 1950S.

OUR EVER WIDENING RANGE OF HUSBANDRY AND LAMINAR FLOW EQUIPMENT USED IN BIOMEDICAL RESEARCH ALLOWS US TO MEET ALL CLIENTS’ NEEDS, PROVIDING SOLUTIONS FOR EVERY ANIMAL MODEL.

AS WELL AS PRODUCING TOP QUALITY EQUIPMENT, TOGETHER WITH OUR NETWORK OF SPECIALISTS AND CONSULTANTS WE ARE REGULARLY INVOLVED IN THE DESIGN AND CONSTRUCTION OF NEW ANIMAL FACILITIES AND IN THE REFURBISHMENT OF EXISTING ONES, THUS DESIGNING AND DEVELOPING 100% TAILOR-MADE PRODUCTS AND PROJECTS.

THAT’S THE REASON WHY TECNIPLAST IS NOT ONLY A SUPPLIER, BUT A REAL PARTNER AT YOUR SIDE.

EXPLORE TECNIPLAST COMPLETE RANGE OF ARIA LAMINAR FLOW SOLUTIONS: OUR CUTTING-EDGE TECHNOLOGY IS AT YOUR SERVICE, TO ASSURE TOP ENVIRONMENTAL, OPERATOR AND ANIMAL SAFETY.

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CHANGING STATIONS

ERGONOMIC DESIGN, ECO-SUSTAINABLE CONCEPTS AND MATERIALS, ACOUSTIC COMFORT, LARGE WORKING AREA TO EASE OPERATORS’ DAILY ACTIVITIES, ENERGETIC EFFICIENCY AND REDUCED MAINTENANCE COSTS: THESE ARE THE PRINCIPLES THAT INSPIRE OUR TECHNICIANS IN THE DESIGN AND DEVELOPMENT OF TECNIPLAST LAST GENERATION CHANGING STATIONS.

EXPLORE OUR OFFER: YOU’LL CERTAINLY FIND THE SOLUTION YOU’RE LOOKING FOR!
CHANGING STATIONS

CS48

SURFACE WIDTH: 120cm - 48”

- ISO Class 4 Air Quality (ISO 14644-1) for maximum protection
- Dual configuration of the working surface: flat or recessed
- Weights only 185kg (407lbs): 20% lighter than others on the market; easy to transport around the facility
- Ergonomic design and sturdy construction
- Energy saving blowers (ECM Technology)
- Low energy LED strip provides uniform light on the work surface
- A dimmer controls light intensity to accepted levels for albino strands
- Injection molded polysulfone airflow grille around the work surface reduces noise and turbulence generated by inside air flow
- Acoustic comfort. Low levels of noise and vibration
- Overall energy savings and reduced heat load emissions
- High cleanability
- Reduced turbulence and noise inside working surface

ARIA CS48 IS INDEPENDENTLY CERTIFIED (UL/CSA) AND COMPLIANT WITH CE REQUIREMENTS.

QUALITY MATERIALS ARE IN CONFORMITY TO GUARANTEE THE STRICTEST SAFETY STANDARDS.
Dual Access. ISO Class 4 Air Quality.
Innovative Flat or Recessed Working Surface

- EFFECTIVE BARRIER: PREVENTS CROSS-CONTAMINATION AND ALLERGEN EXPOSURE
- FLEXIBILITY: DUAL CONFIGURATION WORKING SURFACE FITS FROM THE SMALLEST TO THE LARGEST CAGES
- LIGHTER. 20% LESS WEIGHT THAN OTHER MODELS ON THE MARKET

<table>
<thead>
<tr>
<th>OVERALL DIMENSIONS (WxDxH)</th>
<th>WORKING AREA DIMENSIONS (WxDxH)</th>
<th>WEIGHT</th>
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<tbody>
<tr>
<td>1414 x 790 x 1954 - 2278 mm 55&quot; 5/8 x 31&quot; 3/8 x 76&quot; 7/8 - 89&quot; 5/8</td>
<td>1120 x 610 x 640 mm (flat mode) - 690 mm (recessed mode) 44&quot; 1/8 x 24&quot; x 25&quot; 2/8 (flat mode) - 27&quot; 1/8 (recessed mode)</td>
<td>185 kg 408 lbs</td>
</tr>
</tbody>
</table>

Magnifier kit and retractable cable
CHANGING STATIONS

■ ISO Class 4 Air Quality (ISO 14644-1) and comprehensive barrier protection
■ “Dual Access” Animal Biosafety Cage Changing Station with superior ventilation system and airflow balancing technology
■ Automatic adjustment of the flow rate according to the chosen configuration: single side opening (for one operator) or double-front access (for two operators working simultaneously)

SURFACE WIDTH: 120cm - 48″

■ Low weight: only 190kg (419lbs) - 20% lighter than similar models
■ Working surface double configuration: flat for experimental procedures or recessed for cage changing operations
■ Operator’s protection from infectious particulates, dust, allergens
■ Animals’ protection from contaminants by minimizing the exposure to aerosols

CS48 HP

Optional night panel with UV-C lamp for working area disinfection cycle

ADJUSTABLE LIFTING SYSTEM
Environmental safety during animal handling procedures for cage changing operations

- KI Discus proof: containment levels equal to a Class II Biological Safety Cabinet
- High cleanability: neither sharp corners nor straight edges; the TRESPA® working panels are easily removable for carrying out routine disinfection and/or autoclaving sterilization procedures
- Hinged view screen for easy access to the working area
- Energy-efficient LED light system for bright working environment; the bar is equipped with a dimmer to modify the light intensity as needed. Optional red LED lights for night mode
- 4.3” control panel: user-friendly and easy to read
- Optional H₂O₂ in-loop decontamination kit
CHANGING STATIONS

CS80

SURFACE WIDTH: 150cm - 60”

- Dual-side changing station suitable for specific applications such as weaning and sex separation
- Extra wide working area for increased productivity and exceptional comfort
- Light weight and handy: only 195kg (429lbs)
- Great ergonomics: the wide access to the large working surface makes the introduction and removal of cage easier
- Working area adjustable height to improve operator’s ergonomics and comfort, whether seated or standing

- Working surface double configuration: flat (suitable for mice cages) or recessed (ideal for rat cages) to ease cage changing procedures
- ISO Class 4 Air Quality (ISO 14644-1) and comprehensive barrier protection
- Energy-efficient: standard LED bar for higher efficiency and longer life span
- Dimmer to adjust light intensity
- Reduced maintenance costs thanks to EC motors
Acoustic comfort and vibration minimization for operator’s and animals’ well-being

Easy to clean: highly resistant to Chlorine compounds and derivates; rounded corners and smooth surface. Special protective net to prolong the life span and increase the efficiency of both pre- and HEPA filters

4.3” control panel: user-friendly and easy to read

Wide range of options, e.g.:
- Red lights for night mode
- Motion and obstacle detector (to avoid the risk of collision when lowering the lifting system)
- Cage top holder and folding closure panel
- Easy-feed ABS dual chute feed hopper and Sani-Jet spray hand sanitizer

Tray for liquids collection
CHANGING STATIONS

Specificaly designed for large footprint rat cages

- Single-side changing station specifically designed for large footprint rat cages (e.g. Double Decker)
- Extra wide working area for increased productivity and exceptional comfort
- Light weight and handy: only 200kg (441lbs)
- Great ergonomics: the 420mm (16 4/8) opening height and the large working surface ease the introduction and removal of rat cages
- Working area adjustable height to improve operator’s ergonomics and comfort
- Working surface double configuration (flat or recessed)
- ISO Class 4 Air Quality (ISO 14644-1) and comprehensive barrier protection
- Energy-efficient: standard LED bar for higher efficiency and longer life span
- Dimmer to adjust light intensity
- Reduced maintenance costs thanks to EC motors
- Acoustic comfort and vibration minimization for operator’s and animals’ well-being
- Easy to clean: removable rear closure panel; rounded corners and smooth surface. Special protective net to prolong the life span and increase the efficiency of both pre- and HEPA filters
- 4.3” control panel: user-friendly and easy to read
- Wide range of options, e.g.:
  - Red lights for night mode
  - Motion and obstacle detector (to avoid the risk of collision when lowering the lifting system)
  - Cage top holder and folding closure panel
  - Magnifier kit
  - TRESPA® folding shelf kit

CS80D

SURFACE WIDTH: 150cm - 60”
### OVERALL DIMENSIONS (WxDxH)

- 1590 x 790 x 1994 - 2318 mm
- 62" 5/8 x 31" 3/8 x 78" 4/8 - 91" 2/8

### WORKING AREA DIMENSIONS (WxDxH)

- 1394 x 610 x 680 mm (flat mode) - 730 mm (recessed mode)
- 51" 1/8 x 24" x 26" 6/8 (flat mode) - 28" 6/8 (recessed mode)

### WEIGHT

- 206 kg
- 454 lbs
TECNIPLAST BIOSAFETY CABINETS, SPECIFICALLY DESIGNED FOR ANIMAL RESEARCH LABORATORIES, GUARANTEE THE UTMOSt PROTECTION OF THE OPERATORS FROM THE INHALATION OF INFECTIOUS PARTICLES, DUST, ALLERGENS AND PATHOGENS.

AT THE SAME TIME, TECNIPLAST BIOSAFETY CABINETS GUARANTEE AN EXCELLENT PROTECTION OF THE ANIMALS FROM CONTAMINANTS, BY MINIMISING THE EXPOSURE TO AEROSOLS, THUS PRESERVING ENVIRONMENTAL SAFETY.
Double configuration Microbiological Safety Cabinet and Cage Changing. Simply typing a password, the operator can carry out cage changing operations or experimental activities (by adding the related S/S working surface) in Class II Biohazard configuration.

Certified by TÜV-Nord, meets the requirements of EN 12469:2000 regulation in terms of safety and performance and is compliant with NSF49 as Class II type A2.

Complete operator, product and environmental protection: ISO Class 4 Air Quality (ISO 14644-1)

Increased flexibility and comfort:
- The automatic slanted sash window can be adjusted at two different heights: 250mm (98") in Biohazard configuration and 290mm (114") in cage changing mode.
- Optional electric auto-lift system
- Noise and vibration minimization

Increased flexibility and comfort
- Energy-efficient LED light system for bright working environment; the bar is equipped with a dimmer to modify the light intensity as needed.

The unique MSC dual configuration in the world!
- Standard red LED lights for night mode in changing station configuration
- 4.3” control panel: user-friendly and easy to read
- High cleanability: the AISI 304 working surface (Biohazard configuration) as well as the TRESPA® working surface (Cage Changing configuration) can be easily removed to carry out routine disinfection and/or autoclaving procedures

**ENERGY-EFFICIENT LED LIGHTS**

**RED LED LIGHTS FOR NIGHT MODE**

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<tbody>
<tr>
<td>1395 x 850 x 1590 (cabinet only) mm</td>
<td>CHANGING STATION: 1190 x 540 x average 692 mm 46” 7/8 x 21” 2/8 x average 27” 2/8</td>
<td>CABINET ONLY: ~ 260 kg - 573 lbs</td>
</tr>
<tr>
<td>1395 x 850 x 1998.5 - 2323.05 (with mobile base) mm</td>
<td>BSC2: 1190 x 540 x average 612 mm 46” 7/8 x 21” 2/8 x average 24” 1/8</td>
<td>WITH MOBILE BASE: ~ 320 kg - 705 lbs</td>
</tr>
<tr>
<td>1395 x 850 x 2255 - 2305 (with fix base) mm</td>
<td></td>
<td>WITH FIX BASE: ~ 280 kg - 617 lbs</td>
</tr>
<tr>
<td>54” 7/8 x 33” 4/8 x 78” 5/8 - 62” 5/8 (with mobile base)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>54” 7/8 x 33” 4/8 x 78” 5/8 - 91” 4/8 (with mobile base)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>54” 7/8 x 33” 4/8 x 88” 6/8 - 90” 6/8 (with fix base)</td>
<td></td>
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</tbody>
</table>

**OVERALL DIMENSIONS (WxDxH)**

**WORKING AREA DIMENSIONS (WxDxH)**

**WEIGHT**

- ~ 260 kg - 573 lbs
- ~ 320 kg - 705 lbs
- ~ 280 kg - 617 lbs
BIOSAFETY CABINETS

DUAL CONFIGURATION MSC: CLASS II MICROBIOLOGICAL SAFETY CABINET AND CAGE CHANGING STATION

TECH60

SURFACE WIDTH: 150cm - 60”

Specifically designed for Animal Research Laboratories, Tecniplast ARIA Tech60 assures an effective barrier, prevents cross-contamination and allergen exposure. Simply typing a password, the operator can perform cage changing operations or microbiological activities (by adding the dedicated S/S working surface) in Class II Biohazard configuration.

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<tr>
<td>1700 x 850 x 1590 (cabinet only) mm</td>
<td>CHANGING STATION: 1495 x 540 x average 692 mm 58&quot; 7/8 x 21&quot; 2/8 x average 27” 2/8</td>
<td></td>
</tr>
<tr>
<td>1700 x 850 x 2255 - 2305 (with mobile base) mm</td>
<td>BSC2: 1495 x 540 x average 612 mm 58&quot; 7/8 x 21” 2/8 x average 24” 1/8</td>
<td></td>
</tr>
<tr>
<td>66” 7/8 x 33” 4/8 x 62” 5/8 (cabinet only)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>66” 7/8 x 33” 4/8 x 78” 5/8 - 91” 4/8 (with mobile base)</td>
<td>WITH MOBILE BASE: ~ 370 kg - 816 lbs</td>
<td></td>
</tr>
<tr>
<td>66” 7/8 x 33” 4/8 x 68” 6/8 - 90” 6/8 (with fix base)</td>
<td>WITH FIX BASE: ~ 330 kg - 728 lbs</td>
<td></td>
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</tbody>
</table>

ERGONOMIC ACCESS TO PREFILTERS FOR EASY MAINTENANCE

MOVABLE ARMRESTS TO IMPROVE OPERATOR’S COMFORT
- Automated slanted sash window adjustable at two different heights (250mm in biohazard configuration; 290 mm in cage changing procedure)
- Electric auto lift system (optional) for ergonomic positioning and easy transport
- 4.3” touch screen panel
- LED light bars with dimmer (particularly beneficial for procedures with light-sensitive mice) and red LED lights to work at night (in CS mode)
- Wide range of available options
- Lower energy costs, longer filter life, reduced noise, vibration and heat emissions thanks to the EC high-performance and superior efficiency motor
- Sound-pressure levels (including alarms) way below the parameters of the current EN:12469
- TECH60 performances compliant with both the European and American standards of Class II Biosafety Cabinets
- Outstanding flexibility and comfort thanks to the extra wide working area
- Bright and open working environment: transparent glass side windows and LED light bars with dimmer
- No rounded corners: easy to clean. The AISI 304 (biohazard configuration) and the TRESPA (cage changing configuration) working surfaces are easily removable to perform routine cleaning and/or autoclaving sterilization procedures
- Easy access to pre-filters located in the rear of the panel, which preserves HEPA filters lifespan and efficiency
- Noise and vibration minimization thanks to the unique plenum design: acoustic comfort for both operators and animals
VENTILATED CABINETS

- Protection of immunodepressed, SPF animals
- Protection of staff and local environment
- To house animals of different strains or types within the same area
- Suitable for specific studies or tests
- To house animals in areas not specifically designed for their breeding

The ventilation system creates a clean environment for housing rodents in cages and minimizes contamination levels in the room thanks to cabinets filtration system.
VENTILATED CABINETS

■ Innovative dual ventilation system with two energy-saving blowers (ECM Technology): horizontal air flow from the back to the front of every single compartment, to avoid cross-contamination between cages

■ Supply and Exhaust air filter, HEPA H14 efficiency (EN 1822) with DOP test scanning design

■ Optimal protection of the animals, the user and the environment and high flexibility of configuration: Positive (for bioexclusion purposes) and Negative (for biocontainment) pressure modes can be easily selected on the touch screen

Red doors: why?

MICE PERCEIVE RED AS BLACK, SO THEY BEHAVE AS IF THEY ARE IN A SECURE, DARK ENVIRONMENT, WHEREAS STAFF CAN SEE THROUGH THE TRANSPARENT PLASTIC, MAKING DAILY CHECK EASIER.

RED LIGHTS AND DOORS FOR NIGHT CYCLE

BIO-C 36

■ User friendly 7” TFT Colour Touch panel with integrated microprocessor system for easy control and operation

■ Large variety of configurations and options:
  - 2, 4 or 8 doors
  - Dual-paned tempered transparent, opaque or red glass doors
  - Adjustable shelving for flexible organization and storage with 3 or 4 shelves (respectively corresponding to 4 or 5 compartments)

■ Optional activated charcoal filter
High cleanability:
- working area entirely built in AISI 304 S/S
- AISI 304 S/S shelves can be easily removed to facilitate disinfection operations

Optional innovative LED lighting system (daily/weekly timer) with dimmer uniform light intensity throughout the whole surface of every compartment. We provide top flexibility creating a suitable environment for rodents easing Circadian Rhythm Studies: set the day/night modes (sunrise/sunset or infinite programmable on-off cycles available with high accuracy) according to your research needs

Optional reliable heating system with uniform and efficient heat transfer. Temperature lock-out for consistency and control, Celsius and Fahrenheit selection for convenience and accuracy.
BUILDING INTEGRATED AIR FLOW SOLUTIONS

IVCs INTEGRATION SYSTEM:
■ CREATE MORE SPACE IN YOUR IVC ROOMS
■ CUT YOUR IVC RUNNING COSTS
■ HUMIDITY AND VENTILATION CONTROL
■ LESSEN THE IMPACT OF MAINTENANCE IN THE HOLDING ROOM
■ WORKING PRESSURE MODE EASY TO SET
WHEN DESIGNING A NEW FACILITY, PROJECT TEAMS ARE LEFT WITH A CHOICE: IS IT BETTER BUILDING AN INNOVATIVE GREEN BUILDING FROM THE GROUND-UP, OR MAINTAINING THE STATUS QUO AND ADOPT A MORE TRADITIONAL SOLUTION?

A NEW WAY OF SAVING MONEY AND ENERGY, REDUCING EQUIPMENT AND MAINTENANCE TASKS IN THE ROOM, IS REPRESENTED BY BUILDING INTEGRATED AIRFLOW SOLUTIONS, WHICH COMBINE IVC’s AIR DELIVERY AND EXHAUST WITH THE BUILDING AIR HANDLING SYSTEM.

MULTI-FLOW IS THE NEW AIR HANDLING UNIT DUCTABLE FOR IVC’S INTEGRATION SYSTEM, SPECIFICALLY DESIGNED FOR RELIABILITY, HIGH PERFORMANCE, ENERGY EFFICIENCY, FOR INSTALLATION IN MEZZANINE WITH DUCTING SYSTEM.
CONDITION YOUR RACK AIR
Constant humidity and temperature at cage level, ensuring that each cage keeps standardized settings for top animal health.

THE FAN BOX
Designed to provide best thermal and acoustic isolation, it is supplied in a modular form to improve maintenance process.

THE RACK CONNECTIONS
Quick fit hose points are provided at ceiling height to directly connect the racks to the supply and exhaust systems. The room can be provided with a pressure inverter to easily switch the pressure supplied to the racks from positive to negative, or vice versa.

KEEPING THE BEST STANDARDS
Multi-Flow meets and exceeds current regulations: the “Eurovent Certified Performance Certificate” assures that the equipment, its mechanical features and performance are compliant with energy specifications.

CONSTANT AIR FLOW REGULATORS
The CAR valve balances airflows in IVCs Rack Ventilation supply and exhaust air ductworks:
- Smart design Elastomer double lip-seal for better positioning and airtightness
- Multi-airflow: rotative ring for on-site airflow setting
- Recyclable, chlorine-free plastic with fire-resistance rating B-S3-d0 (Euroclass) S/S regulation spring