







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.

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.

INDEX



5 CHANGING STATIONS

CS36 • CS48 • CS48 HP
CS60 • CS60 D

15 BIOSAFETY CABINETS

TECH48 • TECH60
TECH60 D
TECH48-60 GAS
ISO-TECH60 P



27 ALLERGEN CONTAINMENT

DS ONE

31 SAFE BARRIER SOLUTIONS

PT-TECH60
PASS THROUGH BOX



37 VENTILATED CABINETS

BIO-C36 EVO

41 AIRFLOW SOLUTIONS

MULTIFLOW





CHANGING STATIONS



CS36



CS48



CS48 HP



CS60



CS60 D

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!



CS36

SURFACE WIDTH: 90cm - 36"

Tecniplast ARIA CS36 is a "Dual Access" Changing Station 1.0 m (36") in size, which provides the best-in-class safety, ergonomics and energy efficiency for animal, personnel and working environment protection.

PERFORMANCE

- High Efficiency air plenum design and Laminar Airflow Technology (ISO Class 3 air quality according to ISO 14644-1) preventing animals or products from external and cross contamination, protecting the environment from allergens and potential contaminants
- Microprocessor driven air flow speed with an automatic compensation of the air flow rate, to keep safe working conditions over time
- Extended HEPA filter life span guaranteed by the pre-filters (ISO Coarse $\geq 70\%$ as per ISO 16890; G4 as per EN779) clamped with a transparent co-molded net for an easier and simpler removal of larger dust particles.

BENEFITS

- Lightweight and easy to move: only 170Kg (375lbs) – 20% lighter than similar models
- Safety & Flexibility: unique and patented working surface double configuration flat or recessed to ease cage changing procedures without changing the overall opening section so as to guarantee the same highest containment
- Easier Cleanability: perfectly rounded and smooth surface and edges with a high chemical resistance to aggressive disinfectants
- Energy-efficient and Acoustic Comfort owing to the unique plenums design and EC motors.

OVERALL DIMENSIONS (WxDxH)

1070 x 790 x 1902 - 2226 mm
42" 1/8 x 31" 3/8 x 74" 7/8 - 87" 5/8

WORKING AREA DIMENSIONS (WxDxH)

870 x 610 x 590 (flat mode) - 640 mm (recessed mode)
34" 2/8 x 24" x 23" 2/8 (flat mode) - 25" 2/8 (recessed mode)

WEIGHT

170 kg
375 lbs



FEATURES

- TFT 4.3" touch screen at eye level with an alpha-numeric display for LAF speed & BARRIER flowrate for easy monitoring of the working conditions
- LED light Bar with light dimmer provides the highest lighting level (RED light as option)
- Electric auto-lift to adjust work surface height for maximum operator comfort, whether seated or standing
- Integrated stainless steel push/pull bars on both sides of the cabinet make it easier to maneuver and transport inside the facility
- TRESPA® work surface: two easily removable frames, built of soundabsorbent, anti-scratch, autoclavable material
- Compliant with CE requirements and certified by UL/CSA

CS48

SURFACE WIDTH: 120cm - 48"

- ISO Class 3 Air Quality (ISO 14644-1) for maximum protection
- Patented dual configuration of the working surface: flat or recessed, without changing the overall opening section so as to guarantee the same highest containment
- 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 3 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

OVERALL DIMENSIONS (WxDxH)	WORKING AREA DIMENSIONS (WxDxH)	WEIGHT
1414 x 790 x 1954 - 2278 mm 55" 5/8 x 31" 3/8 x 76" 7/8 - 89" 5/8	1120 x 610 x 640 mm (flat mode) - 690 mm (recessed mode) 44" 1/8 x 24" x 25" 2/8 (flat mode) - 27" 1/8 (recessed mode)	185 kg 408 lbs



Magnifier kit
and
retractable cable





ADJUSTABLE LIFTING SYSTEM

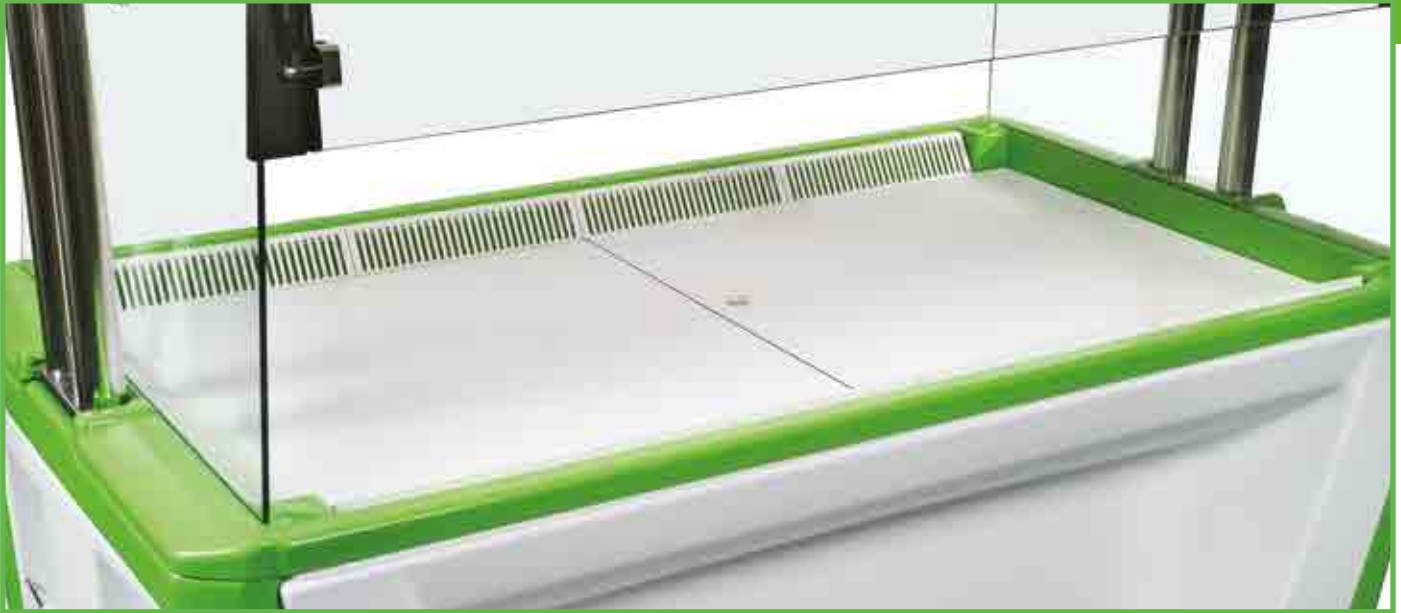
Optional night panel with UV-C lamp for working area disinfection cycle



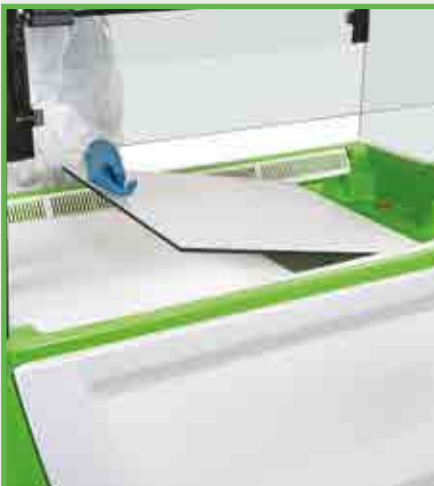
CS48 HP

SURFACE WIDTH: 120cm - 48"

- ISO Class 3 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)
- Low weight: only 190kg (419lbs) - 20% lighter than similar models
- Patented 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



OVERALL DIMENSIONS (WxDxH)	WORKING AREA DIMENSIONS (WxDxH)	WEIGHT
1414 x 790 x 1954 - 2228 mm 55" 5/8 x 31" 3/8 x 75" - 87" 6/8	1214 x 610 x 590 mm (flat mode) - 640 mm (recessed mode) 47" 6/8 x 24" x 23" 2/8 in (flat mode) - 25" 2/8 (recessed mode)	190 kg 419 lbs



SLIDING SYSTEM TO SHIFT PANELS: EASY CLEANING OF THE WORKING SURFACE

- 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



PATENTED WORKING SURFACE DOUBLE CONFIGURATION

CS60

SURFACE WIDTH: 150cm - 60"

- Dual-side changing station suitable for specific applications such as weaning and sex separation
- Extra wide working area
- 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)
- ISO Class 3 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
- 4.3" control panel: user-friendly and easy to read



*Hinged view screen
for easy access
to the working area*

OVERALL DIMENSIONS (WxDxH)

1500 x 790 x 1954 - 2278 mm
62" 5/8 x 31" 3/8 x 76" 7/8 - 89" 5/8

WORKING AREA DIMENSIONS (WxDxH)

1300 x 610 x 640 mm (flat mode) - 690 mm (recessed mode)
51" 1/8 x 24" x 25" 2/8 (flat mode) - 27" 1/8 (recessed mode)

WEIGHT

196 kg
432 lbs



CS60-D

SURFACE WIDTH: 150cm - 60"

- 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 (441 lbs)
- Great ergonomics: 420mm (16" 4/8) opening height and large working surface
- Working area adjustable height
- Working surface double configuration (flat or recessed)
- ISO Class 3 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

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

- 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



ARIA
BIOSAFETY CABINET

WARNING: BIOHAZARD AND CHEMICAL
SAFETY INFORMATION - READ THIS MANUAL
BEFORE OPERATING THIS EQUIPMENT. ALWAYS
WEAR PROTECTIVE GLOVES AND GOGGLES.
DO NOT OPERATE THIS EQUIPMENT IF YOU
ARE NOT TRAINED AND CERTIFIED TO DO SO.
SEE THE USER MANUAL FOR MORE INFORMATION.
© 2014 SPECTRA-LAB INC. ALL RIGHTS RESERVED.



BIOSAFETY CABINETS



TECH48



TECH60



TECH60 D



TECH48-60 GAS



ISO-TECH60 P

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.



BIOLOGICAL SAFETY CABINET CONFIGURATION



CHANGING STATION CONFIGURATION

The unique MSC
dual configuration in the world!

TECH48

SURFACE WIDTH: 120cm - 48"

- 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 3 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



ENERGY-EFFICIENT LED LIGHTS



RED LED LIGHTS FOR NIGHT MODE



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

- 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



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 (certified by TÜV-Nord)

OVERALL DIMENSIONS (WxDxH)	WORKING AREA DIMENSIONS (WxDxH)	WEIGHT
1700 x 850 x 1590 (cabinet only) mm 1700 x 850 x 1998.5 - 2323.5 (with mobile base) mm 1700 x 850 x 2255 - 2305 (with fix base) mm 66" 7/8 x 33" 4/8 x 62" 5/8 (cabinet only) 66" 7/8 x 33" 4/8 x 78" 5/8 - 91" 4/8 (with mobile base) 66" 7/8 x 33" 4/8 x 88" 6/8 - 90" 6/8 (with fix base)	CHANGING STATION: 1495 x 540 x average 692 mm 58" 7/8 x 21" 2/8 x average 27" 2/8 BSC2: 1495 x 540 x average 612 mm 58" 7/8 x 21" 2/8 x average 24" 1/8	CABINET ONLY: ~ 305 kg - 672 lbs WITH MOBILE BASE: ~ 370 kg - 816 lbs WITH FIX BASE: ~ 330 kg - 728 lbs



ERGONOMIC ACCESS TO PREFILTERS FOR EASY MAINTENANCE

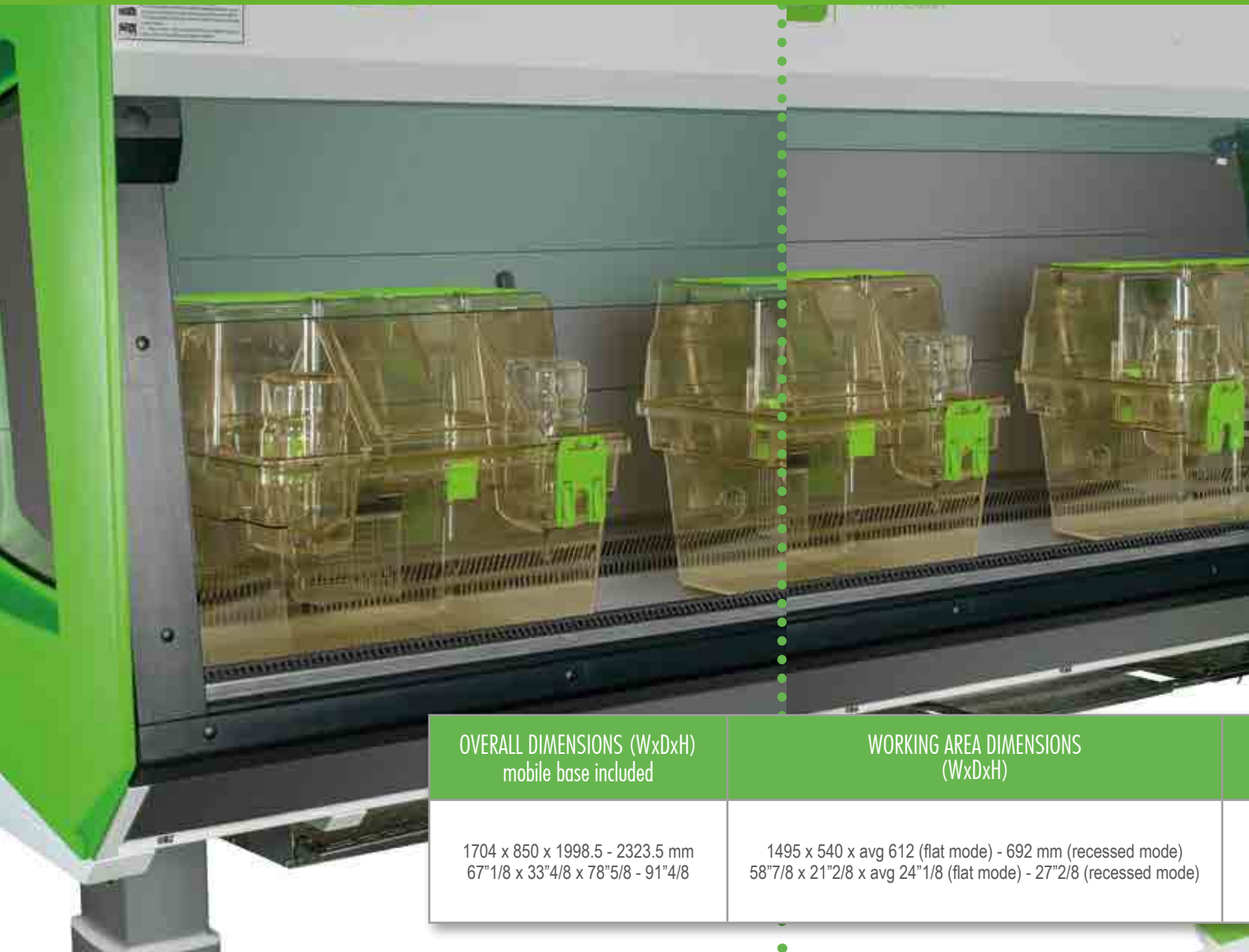


MOVABLE ARMRESTS TO IMPROVE OPERATOR'S COMFORT



ON-BOARD HOLDER FOR STAINLESS STEEL WORKING SURFACES (WHEN SET IN CS MODE)

- 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
- 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



OVERALL DIMENSIONS (WxDxH) mobile base included	WORKING AREA DIMENSIONS (WxDxH)
1704 x 850 x 1998.5 - 2323.5 mm 67"1/8 x 33"4/8 x 78"5/8 - 91"4/8	1495 x 540 x avg 612 (flat mode) - 692 mm (recessed mode) 58"7/8 x 21"2/8 x avg 24"1/8 (flat mode) - 27"2/8 (recessed mode)

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

TECH60 D

SURFACE WIDTH: 150cm - 60"

FEATURES

- Automated slanted sash window adjustable at two different heights (250mm in biohazard configuration - 330mm in cage changing procedure). The window can be opened simply pressing the dedicated icon on the touch screen, or by a foot switch
- Electric auto lift system (optional) for ergonomic positioning and easy transport
- 4.3" touch screen panel
- LED light bars with dimmer (for light-sensitive mice) and red LED lights to work at night (in CS mode)

PERFORMANCE

- Guaranteed protection for your staff and animals: meets the requirements of EN 12469:2000 regulation and is compliant with NSF49 - Class II Type A2
- Lower energy costs, longer filter life, reduced noise, vibration and heat emissions thanks to the EC motor
- ISO Class 3 Air Quality according to ISO 14644-1
- Automatic regulation system to keep the airflow speed in the work chamber and the recycling/extracted air ratio constant.



WEIGHT

CABINET ONLY: 305 kg - 672 lbs
WITHOUT MOBILE BASE: 370 kg - 816 lbs
WITH FIXED BASE: 330 kg - 728 lbs



SPECIFICALLY DESIGNED FOR DOUBLE DECKER AND LARGE FOOTPRINT CAGES

BENEFITS

- Energy efficient: LED lights with dimmer and EC motor blower
- 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
- Lower maintenance costs: ISO Coarse $\geq 70\%$ as per ISO 16890; G4 as per EN779 pre-filters located in the rear of the panel preserve the lifespan of HEPA filters; LED system and EC motor for extended life cycle.



Foot-switch to open and close automatically the sash window



TECH48 TECH60 GAS

SURFACE WIDTH:
120cm - 48" (TECH48 GAS)
150cm - 60" (TECH60 GAS)

FEATURES

- Automated slanted sash window adjustable at two different heights (250mm in biohazard configuration; 290mm in cage changing procedure)
- Electric auto lift system (optional) for ergonomic height positioning and easy transport
- All anaesthesia controls (touch screen control panel, vaporizer, induction chamber, mice or rats mask, thermal probe, heating pad) placed inside the working area
- LED light bars with dimmer (for procedures with light-sensitive mice) and red LED light to work at night (in CS mode).

PERFORMANCE

- Guaranteed protection for your staff and animals meeting the requirement of EN 12469:2000 regulation (KI Discus proof) and compliant with NSF49 as Class II Type A2
- ISO Class 3 Air Quality according to ISO 14644-1
- 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 EC motor or with the different work openings set
- Dedicated and automatic inlet & outlet flowrate electronic management for induction chamber and anaesthesia mask
- Automatic scavenging anaesthesia system with dedicated filters.



Fully integrated Gas Anaesthesia system for ARIA BSCs. Class II Microbiological Safety Cabinets and Cage Changing Stations specifically designed for Animal Research Laboratories, Tecniplast ARIA TECH 48 & 60 GAS, with a fully integrated TEM SEGA anaesthesia system, assures effective microbiological safety during animal surgical operations or experimentation preventing cross contamination and allergen exposure.

BENEFITS

- The anaesthesia integration into the back panel frees your cabinet’s working chamber, keeping the work surface clear
- Simply access to pre-filters located in the rear of the panel, which preserves HEPA filters lifespan and efficiency
- The anaesthesia system is equipped with 3 independent control lines (1 for induction chamber and two for masks) and a dynamic 7” smart touch screen with pre-set protocols.



Autoclavable induction chamber entirely embedded in the working surface

	OVERALL DIMENSIONS (WxDxH) mobile base included	WORKING AREA DIMENSIONS (WxDxH)	WEIGHT
TECH 48 GAS	1395 x 850 x 1998.5 - 2322.5 mm 54”7/8 x 33”1/2 x 78”3/4 - 91”1/2	1495 x 540 x avg 612 (flat mode) - 692 mm (recessed mode) 58”7/8 x 21”2/8 x avg 24”1/8 (flat mode) - 27”2/8 (recessed mode)	385 kg 848 lbs
TECH60 GAS	1700 x 850 x 1999 - 2323 mm 66”7/8 x 33”1/2 x 78”3/4 - 91”1/2	1190 x 540 x avg 610 (flat mode) - 690 mm (recessed mode) 46”7/8 x 21”1/4 x avg 24” (flat mode) - 27”1/4 (recessed mode)	430 kg 947 lbs



CLASS II MICROBIOLOGICAL SAFETY CABINET

ISO-TECH60 P

SURFACE WIDTH: 150cm - 60"

Specifically designed for Germ-Free Applications, Tecniplast ARIA ISO-TECH60 P guarantees protection for your staff and Animals and assures an effective barrier, preventing germ free health status of the animals and cross contamination as well as allergens and potential pathogens exposure.



DECON CHAMBER (OPTION)

THE AERAULIC PERFORMANCES MEETS THE REQUIREMENT OF EN 12469:2000 REGULATION AND COMPLIANT WITH NSF49 AS CLASS II TYPE A2

FEATURES

- Hinged and sloped safety glass front window allowing good visibility of the work surface and inside the cages by reducing glare
- Electric auto lift system (optional) for ergonomic height positioning and easy transport
- User friendly 7" TFT Colour Touch panel with integrated microprocessor system for easy control and operation
- LED light bars with dimmer (particularly beneficial for procedures with light-sensitive mice) and red LED light to work at night



OVERALL DIMENSIONS (WxDxH)

2238 x 860 x 2007 - 2407 mm
88"1/8 x 33"7/8 x 79" - 94"6/8 in
with decon chamber and transfer door with flange

WORKING AREA DIMENSIONS (WxDxH)

1495 x 490 x average 690 mm
58"7/8 x 19"2/8 x average 27"1/8

WEIGHT

CABINET ONLY: 358 kg - 789 lbs

PERFORMANCE

- ISO Class 3 Air Quality according to ISO 14644-1, the aeraulic performances meets the requirement of EN 12469:2000 regulation and compliant with NSF49 as Class II Type A2
- Decon chamber (option) on a side for manually decontaminating the cage before moving in and handling it
- Highest degree of protection: optional sliding gloves system installed along the front aperture in order to minimize the risk of human error and potential contamination
- Transfer door (option) with or without flange in order to introduce the autoclaved staff or germ-free animals in complete safety.

BENEFITS

- Very large work area for housing all the staff needed to work with very sensitive mice
- Enhanced ergonomics: the improved opening height and the use of a smart sliding gloves system make any kind of manipulation simpler, more effective and safer
- Energy-efficient: LED light bars with dimmer and EC motor blower
- Easy to clean: the AISI 316 working area with removable TRESPA® work surface panels are highly resistant when carrying out routine cleaning and/or autoclaving sterilization procedures
- Customer configurable: different options available according to the user needs and SOPs



 **ARIA**
AIRFLOW INCUBATOR



ALLERGEN CONTAINMENT



DS ONE

TECNIPLAST COMPLETE ARRAY
OF ALLERGEN CONTAINMENT SOLUTIONS
PERFORMS:

- HIGH PROTECTION AGAINST ALLERGENS AND CONTAMINANTS
- WIDE WORKING AREA
- HIGH CLEANABILITY AND VISIBILITY
- MICROPROCESSOR CONTROLS AND SAFETY ALARMS



MOBILE and compact
Animal Bedding
Disposal Station
with large
access opening!

OVERALL DIMENSIONS (WxDxH)	WORKING AREA DIMENSIONS (WxDxH)	WEIGHT
1050 x 895 x 1880 mm 41" 3/8 x 35" 2/8 x 74" (with fixed stand support)	966 x 660 x 590 mm 38" x 26" x 23" 2/8	DS ONE WITH FIX BASE: 162 kg - 357 lbs DS ONE WITH LIFTER: 195 kg - 430 lbs

HIGHER FRONT ACCESS OPENING AND ENHANCED DEPTH FOR A MAXIMUM OPERATOR COMFORT

DS ONE

SURFACE WIDTH: 90cm - 36"

Tecniplast ARIA DS ONE provides the best-in-class safety, ergonomics and energy efficiency for personnel and working environment from aerosol particles and unpleasant odors.

- Spacious working area in a compact and ergonomic design thanks to its unmatched access opening height. An optional electric lifting system is also available to be adjusted for user convenience
- Easiest Cleanability thanks to the working surface made in high tech, highly resistant plastic making it highly cleanable and with a high resistance to chemical disinfectants
- Energy-efficient and Acoustic Comfort owed to the unique plenum design and EC motor
- Increased durability of the working surface. The elastic property of the plastic (polymer) is extremely durable and resistant to chemical disinfectants
- Top-mounted exhaust carbon filter absorbs odours and gaseous contaminants including ammonia (as option)
- AISI 304 with scotch brite finishing for enhanced cleaning and product life
- 4.3" touch screen control panel with automatic regulation system to keep the inflow air speed constant
- LED light Bar with light dimmer provide the highest lighting level
- EC Motor Blower ensures higher efficiency & performance, extended life and reduced maintenance.



SLIDING REDUCTION FUNNEL



ELECTRIC LIFTER (DS ONE-L ONLY)

- Enhanced operator protection against allergens and contaminants thanks to a redesigned and optimized working area
- Extended HEPA filter life span guaranteed by the pre-filters (ISO Coarse $\geq 70\%$ as per ISO 16890; G4 as per EN779) clamped with a transparent co-molded net for an easier and simpler removal of larger dust particles
- Sliding reduction funnel allowing the operator to simplify waste bag removal under a constant and incomparable operator protection.



EASY ACCESS TO PREFILTERS BY A HINGED LATCH-FREE HOUSING PANEL



SAFE BARRIER SOLUTIONS



PT-TECH60



PASS THROUGH BOX

TECNIPLAST "SAFE BARRIER" SOLUTIONS ARE DESIGNED TO IMPROVE LABORATORY ENVIRONMENTAL CONDITIONS, CONTRIBUTING TO THE DEVELOPMENT OF SAFER PROCEDURES AND MORE FLEXIBLE, EASIER WAYS OF WORKING.

OUR WIDE EXPERIENCE ALLOWS US TO PROVIDE YOU WITH THE BEST SOLUTION WHEN TRANSFER BETWEEN TWO ENVIRONMENTS WITH DIFFERENT LEVELS OF CONTAMINATION IS NEEDED.



PT-TECH60 – TYPE A: SINGLE DOOR PASS-BOX



PT-TECH60
SURFACE WIDTH:
150cm - 60"
(cabinet only)

PERFORMANCE

- Excellent safety: complying with both EU and US Class II biosafety cabinet standards, provides the operator complete protection
- ISO Class 3 air quality: meets the highest operator and product protection (ISO 14644-1)
- Improved energy efficiency: high-performance motor and LED lighting system, with in-built dimmer, offers both energy efficiencies and reduced maintenance costs
- Surface and filter cleaning enhancements: rounded corners inside and out improve surfacing cleaning.

FEATURES

- 4.3" touch screen panel with user-friendly menu
- Dimmable LED lights: beneficial for procedures with light-sensitive animals. Red LED light, as standard, allowing night work
- Transparent glass side windows: provides a bright and open working environment.
- V-shaped inlet grid: prevents accidental blocking, which could impact airflow speed, helping maintain a safe and constant environment.



Safe transfer
of
animals!

PT-TECH60 – TYPE B: DOUBLE INTERLOCKED DOOR PASS-BOX

The new ARIA PT-TECH60 is specifically designed for animals moving from a non-controlled environment to a controlled one. It features a Laminar Flow Pass Through Box and a Bio-Safety Changing Station, and can be used for both mouse and rat.

BENEFITS

- Increased flexibility: two model types available:
 - TYPE "A" configured with one pass through box door
 - TYPE "B" configured with two interlocking doors, offering flexibility of use and quicker operation
- Operator comfort: adjustable and automatic slanted sash window, allows for a comfortable cage changing procedure while maintaining operator safety
- Unique plenum design: minimizes noise and vibration, benefiting user and animal
- TRESPA® work top: enables highest hygiene standards with absorbent, anti-scratch and autoclavable material.

OVERALL DIMENSIONS (WxDxH)

TYPEA: 2164 x 849 x 2437 ÷ 2482 mm
 85" 2/8 x 33 3/8" x 96" ÷ 97"6/8
 TYPE B: 2564 x 849 x 2437 ÷ 2482 mm
 101" x 33 3/8" x 96" ÷ 97"6/8

WORKING AREA DIMENSIONS (WxDxH)

CHANGING STATION: 1495 x 540 x avg 692 mm
 58" 7/8 x 21" 2/8 x avg 27" 2/8
 TYPE A: 485 x 465 x 433 mm
 19" 1/5 x 18" 2/8 x 17"
 TYPE B: 485 x 871 x 510 mm
 19" 1/5 x 34" 2/8 x 20" 1/8

WEIGHT

TYPE A: 420 Kg - 926 lb
 TYPE B: 452 Kg - 996 lb



STATIC OR VENTILATED PASS THROUGH BOX

PASS THROUGH BOX

- Main body made in stainless steel AISI 304L and Scotch Brite finishing to improve the cleanability
- Removable work surface & Liquid collection tray to collect the extra disinfectant
- Pre-filters (ISO Coarse $\geq 60\%$ as per ISO16890; G4 as per EN779) to extend the H14 HEPA filter life span
- 24V DC centrifugal motor blower ensures higher efficiency & performance, extends life of the Pass Through and reduced maintenance.
- Increased flexibility: two different models available (static or ventilated) and with or without base to meet the different installation requirements of your facility
- Top Safety: electromagnetic interlocking doors with LED light control preventing both doors from being accidentally opened at the same time
- Enhanced Visibility: anti UV-C tempered glass screen provides a clear view of the internal chamber
- User-Friendly: 4.3" touch screen which allows you to easily access any function, improving and simplifying the setting procedures

Designed to transfer materials and working tools between areas classified with different air cleanliness and, at the same time, keep them separate.



OVERALL DIMENSIONS (WxDxH)	WEIGHT
485 x 780 x 510 (chamber only) mm 711 x 496 x 933/max 963 (fix base) mm	PASS BOX ONLY: ~ 110 kg - 242 lbs
19" 1/8 x 30" 6/8 x 20" 1/8 (chamber only) 28" x 19" 4/8 x 36" 6/8 / max - 37" 7/8 (fix base)	WITH FIX BASE: ~ 130 kg - 287 lbs

- Class H14 HEPA filter: typical efficiency of 99.995 % MPPS according to CEN EN 1822.
- ISO Class 3 Air Quality according to ISO 14644-1 for an increased air cleanliness
- 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 pre-filter & HEPA filters
- Perforated stainless steel diffuser to protect the HEPA filter and guarantee a uniform down flow air along all the working area (average speed 0.36 m/s – 70,86 fpm).(Cage Changing configuration) can be easily removed to carry out routine disinfection and/or autoclaving procedures



VENTILATED CABINETS



BIO-C36 EVO

- 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.



RED LIGHTS AND DOORS FOR NIGHT CYCLE

BIO-C36 EVO

SURFACE WIDTH: 90cm - 36"

Top-of-the range Ventilated Cabinet, Tecniplast ARIA BIO-C36 EVO is a Ventilated Cabinet designed to accommodate nearly all types of cages with no cross contamination.

FEATURES

- User friendly 7" TFT Colour Touch panel with integrated microprocessor system for easy control and operation
- Dual-paned magnetic tempered safety glass doors available in transparent, red or opaque color
- Working area entirely built in AISI 304 S/S
- Adjustable shelving for flexible cage housing (only for cabinets without day/night cycle option)
- Compliant with CE requirements and UL/CSA.

PERFORMANCE

- Innovative dual ventilation system with two energy-saving blowers in order to work in positive or negative pressure according to the users' needs
- Microprocessor driven ACH with an automatic compensation of the air flow rate, to keep safe working conditions over time
- Supply and Exhaust air filter HEPA H14 efficiency (EN 1822) with DOP test scanning design.



Red doors:
why?

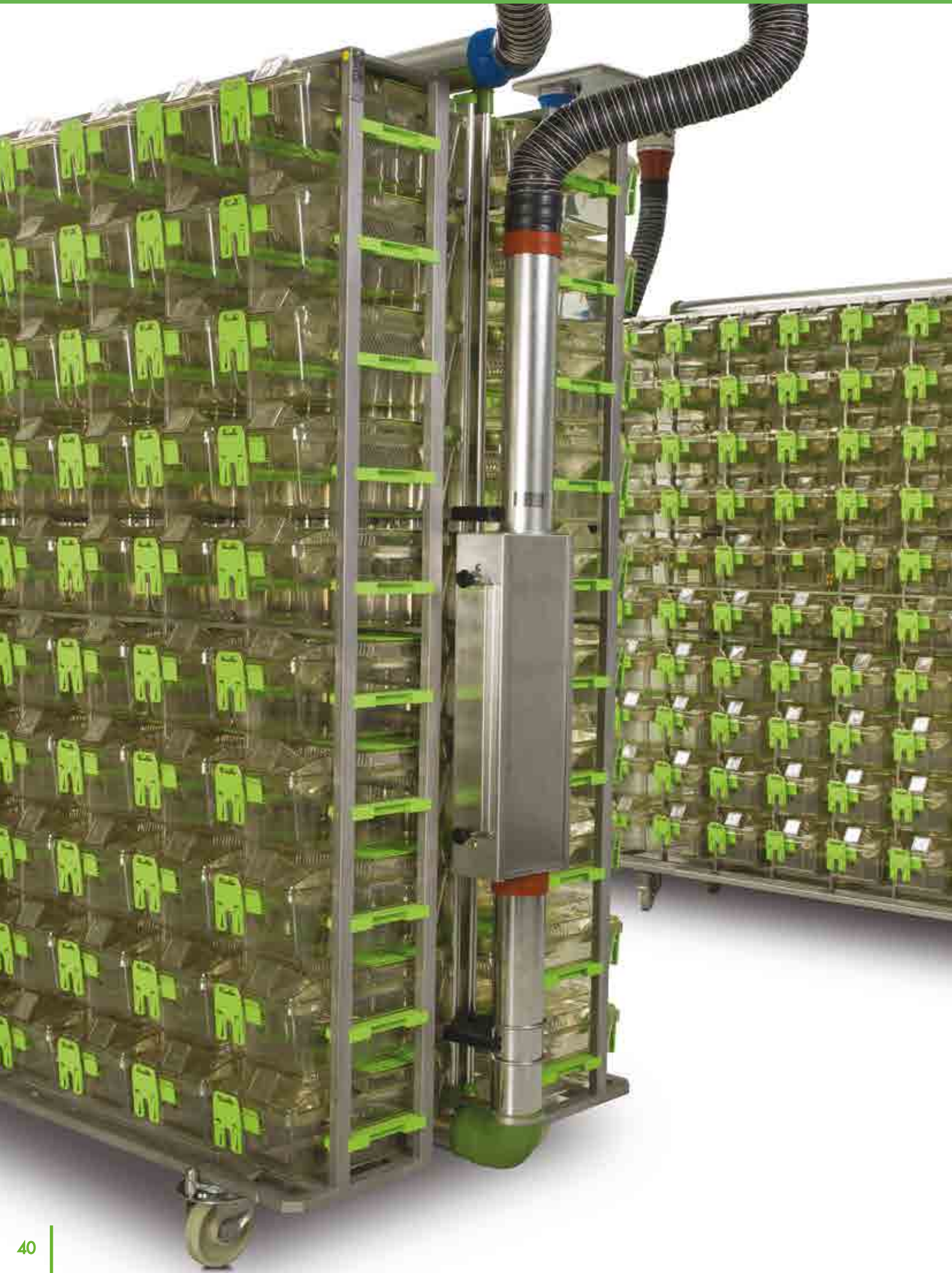
MICE PERCEIVE RED AS BLACK, SO THEY BEHAVE AS IF THEY ARE IN A SECURE, DARK ENVIRONMENT, WHEREAS STAFF CAN SEE THROUGH THE TRANSPARENT PLASTIC, MAKING DAILY CHECK EASIER.

EXTERNAL DIMENSIONS (WxDxH)	INTERNAL DIMENSIONS (WxDxH)	NUMBER OF COMPARTMENTS AND COMPARTMENTS HEIGHT
1000 x 810 x 1930 mm 29" 3/8 x 31" 7/8 x 76"	940 x 680 x 1350 mm 37" x 26" 6/8 x 53" 1/8	4 compartments; 315 mm - 12" 3/8 5 compartments; 246 mm - 9" 5/8

BENEFITS

- Flexibility: Positive (for bioexclusion) and Negative (for biocontainment pressure mode settings)
- Energy-efficient and Acoustic Comfort due to the unique plenums design and EC motors
- Optional innovative and dimmable LED lighting system, with a daily/weekly timer, throughout the whole surface of each compartment
- Optional reliable heating system with uniform and efficient heat transfer.





BUILDING INTEGRATED AIR FLOW SOLUTIONS



MULTI FLOW

- 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 IVCs AIR DELIVERY AND EXHAUST WITH THE BUILDING AIR HANDLING SYSTEM.



*Let us help you
to design your facility!*

THANKS TO OUR DEDICATED AND SKILLED PROJECT MANAGEMENT DEPARTMENT, WE CAN DEVELOP 3D FACILITY LAYOUTING TO BEST MEET OUR CUSTOMERS' REQUIREMENTS



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.

MULTI FLOW

- Fan unit providing airflow to up to 14 single-sided racks
- The rack can be conditioned to RH 55%
- Condition the rack temperature
- Eliminate fans from the holding room
- Reduce energy consumption
- Maintenance outside the holding rooms
- Cost allocation moved from the equipment list to the building and maintenance budget





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



COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 =

COMPANY WITH
ENVIRONMENTAL SYSTEM
CERTIFIED BY DNV GL
= ISO 14001 =

 **TECNIPLAST**
i n n o v a t i o n t h r o u g h p a s s i o n

HEADQUARTERS

ITALY | Tel. +39 0332 809711 · www.tecniplast.it · E-mail: tecnicom@tecniplast.it; venditeitalia@tecniplast.it

SISTER COMPANIES

AUSTRALIA/NEW ZEALAND | Tel. + 61 2 8845 6500 · www.tecniplast.it · E-mail: info@tecniplast.com.au

CHINA | Tel. + 86 (0)21 50810920 · www.tecniplast.cn · E-mail: tecniplastchina@tecniplast.it

FRANCE | Tél. +33 (0)4 72 52 94 41 · www.tecniplast.fr · E-mail: info@tecniplast.fr

GERMANY | Tel. +49 (0)8805 921320 · www.tecniplast.de · E-mail: info@tecniplast.de

UNITED KINGDOM | Tel. + 44 (0)345 0504556 · www.tecniplast.it · E-mail: info@tecniplastuk.com

JAPAN | Tel. +81 (0)3 5770 5375 · www.tecniplast.it · E-mail: info@tecniplastjapan.co.jp

SWITZERLAND | Tel +41 (0)81 750 31 40 · www.tecniplast.ch · Email: info@tecniplast.ch

USA | Toll Free: +1 877.669.2243 · www.tecniplastusa.com · E-mail: info@tecniplastusa.com

CANADA | Toll Free: +1 855.347.8718 · www.tecniplastcanada.com · E-mail: info@tecniplastcanada.com

TO FIND YOUR LOCAL DISTRIBUTOR, PLEASE VISIT WWW.TECNIPLAST.IT

