

PATENT PENDING · DESIGN PATENT



- Evolution of the animal cage changing station
- Ergonomic design
- Design for Eco-sustainability
- Increased efficiency
- Acoustic comfort



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TECNIPLAST
*innovation through passion*SM



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CS5 Evo GP Changing Station

Evolution of the Animal Cage Changing Station **1**



1/ Evolution of the Animal Cage Changing Station

The "CS5 EVO" GP is the ultimate Dual Access Animal Cage Changing Station with a superior ventilation system and airflow balancing technology providing personnel, environment and product protection during animal handling procedures. The CS5 EVO "GP" series install new generation motors - electronically commutated (EC), brushless DC motors. Top quality electronics and design make "GP" motors extremely efficient, quiet and reliable. Electronically commutated (EC) motors offer silent, infinitely variable speed control and significantly reduced power consumption compared to traditional AC technologies.

2/ Energy and Cost Saving

The CS5 EVO GP incorporates a new DC EC Motor technology to give the best VALUE in terms of lower energy costs, longer filter life, reduced noise and vibration and lower heat load emitted. EC motors are very high efficiency (65% to 80%) electric motors and maintain a top efficiency level at part speed. This means that in most cases they consume from less than one third to one half of the electricity used by traditional induction motors, which in turn translates into lower operating costs and short payback periods. The high efficiency of EC motors also means that they run "cool", and dramatically reduce the amount of wasted heat produced. Speed is controlled by software. EC motors are also quieter than traditional, less efficient motors, have a longer working life and require less maintenance.

3/ Ergonomic Design

- Easy to move (only 160Kg/350lb) on 125 mm (5") casters with locking brakes
- Angled viewing windows reduce glare and allow clear visibility into the work area.
- The electronically controlled fluorescent lamps positioned outside the working area make for energy efficiency and provide optimal, uniform distribution of light over the work surface. A dimmer allows to adjust the light intensity when manipulating albino mice.
- The work surface height is electrically adjustable for ergonomic comfort and operator convenience.
- The ergonomic stainless steel integrated push/pull bar allows easy handling of the cabinet.
- When fully lowered to a height of 1921 mm (75.6") the cabinet can be wheeled from lab to lab.

Design for Eco-sustainability

- Sustainable use of materials, using new technologies and manufacturing processes that conserve natural resources.
- Less steel and more Hi-Tech plastic molded parts.
- Sturdy construction and modern design.

4/ Increased Efficiency

- The CS5 provides a large work area for one or two operators.
- The large work access opening makes it easy to introduce and remove cages.
- The work surface comprises two easily removable frames, built of sound-absorbent, anti-scratch, autoclavable material.
- Innovative dual configuration working surface design means that the working surface can be adjusted in height in order to create a recessed working area when manipulating "popcorn" mice strains.
- Innovative airflow grille design on the peripheral work surface collects ambient air and prevents clogging to maintain air barrier performances.
- The elastic property of the plastic (polymer) is far more durable and crash resistant than others materials traditionally used for cage changing stations (proved by crash test analysis).

5/ Acoustic Comfort

- Unique Tecniplast plenum design minimizes noise and vibration.
- Two independent blowers are used, one for the supply filter and one for the exhaust filter.
- Continuous monitoring of cabinet airflow is displayed on an easy-to-read LCD control panel. Acoustic and visual alarms signal when operational conditions are outside the set parameters.
- A microprocessor control system supervises operations of all cabinet functions and automatically controls the constant airflow rate
- EC motors provide the quietest solution for the animal facility where the noise factor must be taken into account.

6/ Containment and Protection

- The CS5 EVO with a new High Efficiency air plenum design and Laminar Airflow Technology (ISO5) protects the animals or products from external and cross-contamination, while protecting the environment from allergens and particulate emissions
- The CS5 EVO provides an excellent air curtain performance to protect investigators and animal caretakers from exposure to allergens which might cause occupational hazards such as asthma and allergies.

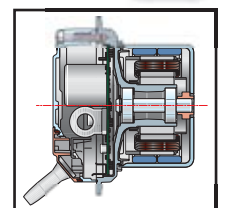
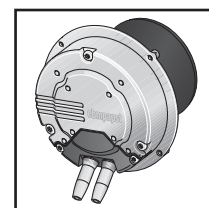
7/ High Cleanability

- High chemical resistance to Chlorine compounds
- High-cleanability, perfectly rounded and smooth surface and edges.
- A protective net prolongs the lifespan and efficiency of the HEPA filters below the working area.
- A removable tank for refuse disposal and perimeter drain.

8/ Wide Range of Accessories & Options

- "Easyfood" ABS dual chute feed hopper kit with plastic scoop.
- Folding shelf kit.
- "Sani-Jet" Spray Hand Sanitizer.
- Front closure panel.
- Top Holder.

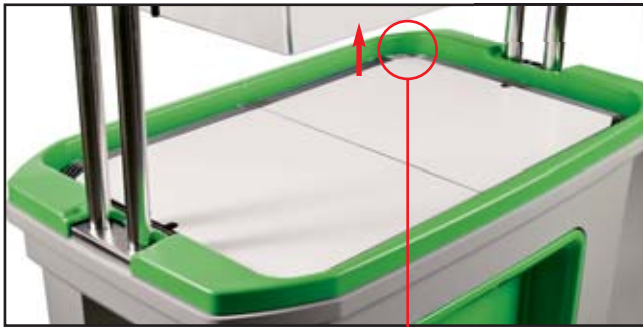
Energy and Cost Saving **2**



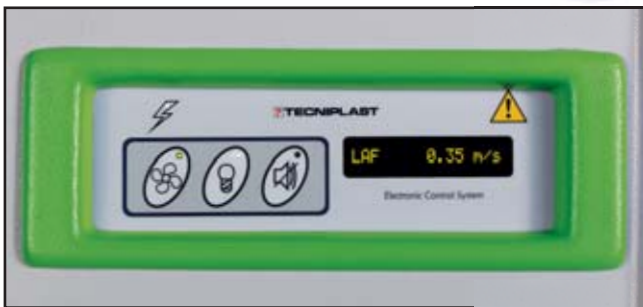
Ergonomic Design / Design for Eco-sustainability **3**



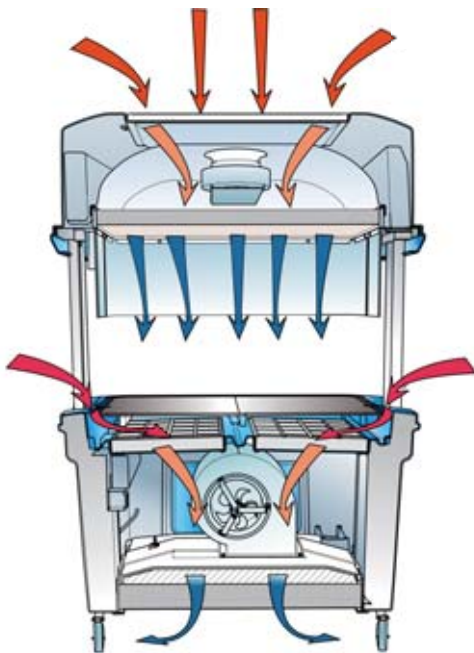
Increased Efficiency **4**



Acoustic Comfort **5**



Containment and Protection **6**



■ Environment air
 ■ Pre-filtered air
 ■ HEPA filtered air

TECHNICAL SHEET

Overall Dimension on electrical height adjustable floor stand (W x D x H):
1295 x 773 x 1921/2221 mm • 51 x 30.43 x 75.62/87.44 inch

Chamber Dimensions (W x D x H):
1000 x 600 x 640/680 mm • 39.37 x 23.62 x 25.2/26.8 inch

Access opening height:
340 mm • 13.4 inch

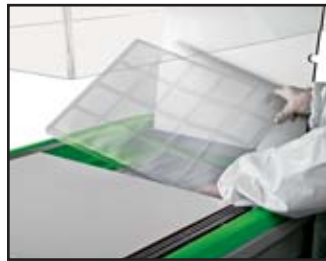
Weight:
160 kg • 350 lb

Electrical Supply:
230 V - 50/60 Hz • 100/115 V - 50/60 Hz

Control:
microprocessor driven with control panel

Classification of Air Cleanliness:
ISO 5 according to ISO 14644-1

High Cleanability **7**



Wide Range of Accessories & Options **8**



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.



CSM: cage opening and closing operations, using the ultimate in robotic technology.



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.

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