



Housing

Double Decker Rat Housing Caging system

- The first rat IVC developed with the behavioral needs at the heart of its design considerations
- Revolutionary approach to IVC caging: a cage on two levels for environmental complexity
- Great for the technician - light, square, good weight distribution and excellent for manual handling
- Exceeds international guidelines for rat housing needs



PATENT PENDING



DOUBLE DECKER

*"A revolutionary and radical new approach
to IVC rat caging".*



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*SM

Housing

Double Decker Rat Housing Caging System

1/Unique environmental complexity

The Double Decker provides real environmental complexity for the first time in any rat IVC caging. Climbing, playing and exploration are widely acknowledged as key elements of normal rat behaviour along with the ability to exhibit bi-pedal posture. These were all at the forefront of our minds in the development process of this cage.

Unlike traditionally "barren" cages; the unique Double Decker provides real usable three dimensional space. Sections of the cage extend to a height of 37cm giving rats ample room to stretch.

2/Rat group housing

The rat is a social animal with specific welfare requirements and should be housed in groups where interaction, playing and chasing etc can occur. Most existing cages restrict this by their basic shape and lack of height. The Double Decker provides for all these needs and more. The cage is over two levels with varying heights giving a more enriched environment by allowing the rat to explore and display natural behavioural traits. The combination of levels also provides an area for animals to shelter.

3/Cage airflow design

In line with the greenline family, the inlets in the wall of the cages directs the air in at high level for the successful and effective removal of heavy gases such as CO₂ and NH₃, providing consistency of microenvironments at both cage and rack level.

4/Easy handling and space saving

Designed for both the Rat and Technician, the Double Decker is uniquely shaped to give good weight distribution unlike many other cages on the market. The compact shape of the box allows it to be carried close to the body, making the cage easy and safe to handle for the operator whilst still ensuring high room densities.

5/Easy observation

The cage shape (specifically its height) and the absence of a wire-bar lid allows perfect visibility into the cage for animal examination on both floors. The hatch which is optional also allows the handler to reach into the cage without removal from the rack. When the cage is used under negative pressure the hatch allows the animals to detect familiar handlers and reduces startling of the animals.

6/Cage Self-Locking System (CSS) & Visual Docking Indicator

You will find that our rack runners have built-in stoppers, so each cage stops and locks in place automatically - and almost effortlessly. A visual indicator flags any cage that is not fully docked. When a cage is fitted properly into the rack, the flag disappears from view.

7/External water bottle

The cage benefits from two indentations both with self closing flaps so that you can remove or change bottles without disturbing, or stressing the animals whilst maintaining containment. There are various bottle size options for greater flexibility.

8/Enhanced containment and bioexclusion

The cage body features a silicone gasket that fits snugly around the base assuring containment when the top is fitted and locked in place. The cage can be used under both positive and negative pressure for biocontainment and bioexclusion.

9/Seal and filter

The silicone gasket features a lip that accepts the cage top, ensuring an occlusive seal. A large square 0.2 µ filter area on the top of the cage also ensures the safety of its inhabitants in case of power failure.

10/TouchSLIM Plus™

The TouchSLIM Plus™ is an air handling unit that is fitted with a microprocessor-controlled touch screen which controls the speed of both Supply and Exhaust blowers while displaying the Temperature and Relative Humidity. Total control at your fingertips.

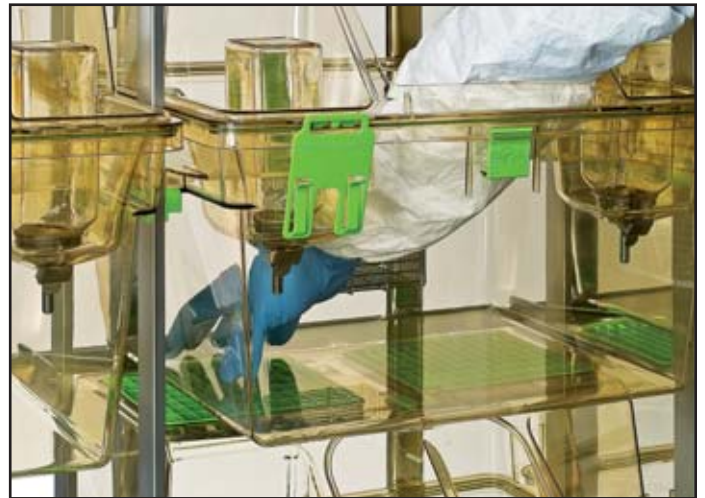
Unique environmental complexity/Rat group housing

1&2



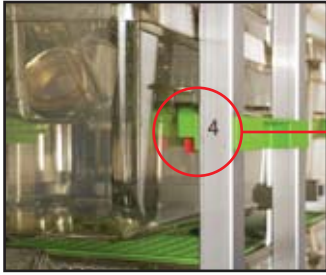
Easy handling and space saving/Easy observation

4&5

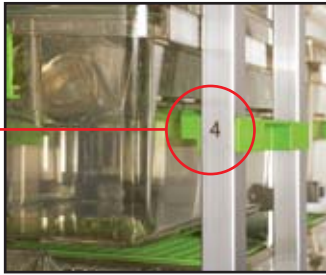


Cage Self-Locking System (CSS) & Visual Docking indicator

6



Wrong Position



Right Position

External water bottle

7



Enhanced containment and bioexclusion

8



TECHNICAL SHEET

GR1800 Cage

Overall Dimensions (L x W x H) - mm: 462 x 403 x 404

Floor area: 1800 cm²

Cage weight: 4.9 Kg

Rack type	N° cages	Overall Dimensions (L x W x H) - mm	Weight of empty rack - Kg
2GR12DD	12	1458 x 500 x 1978	58
2GR16DD	16	1934 x 500 x 1978	71
2GR24DD	24	1458 x 888 x 1986	95
2GR32DD	32	1934 x 888 x 1986	116

TouchSLIM™

Overall Dimensions (L x W x H) - mm: 480 x 550 x 1954

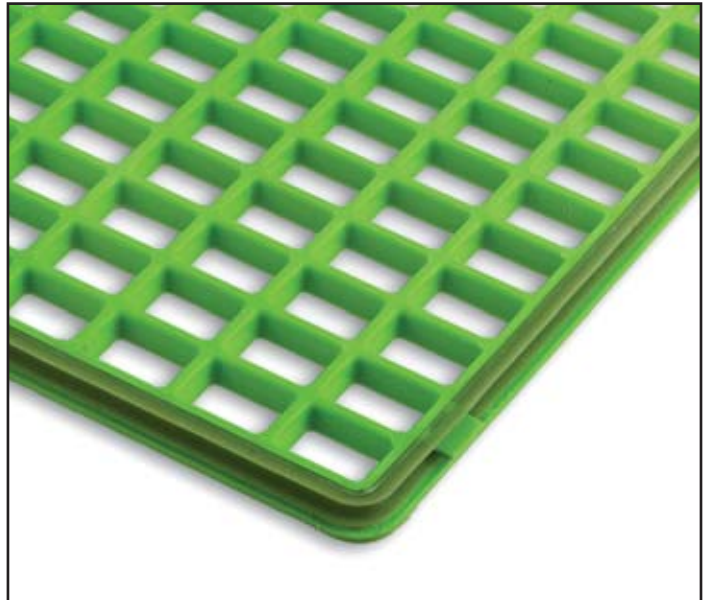
Heat Loss: Max 406 BTU/h

Electrical Consumption: 1A at 200 m³/h 230V • 2A at 200 m³/h 115V

Maximum Air Flow: 200 m³/h

Seal and filter

9



TouchSLIM Plus™

10

Cost Saving

- 4 single-sided, 2 double-sided racks or a mix.
- Only need one air handling unit.
- Space saving and reduces the amount of heat produced.
- Reduction of air changes per hour at room level.

Monitoring

- Parameters monitoring and alarms.
- Monitor: supply air flow, exhaust air flow, temperature, relative humidity and pressure (optional).

Flexibility

- Flexible setting and easy to use touch screen.
- Set cage type, number of air changes per hour, pressure mode (positive or negative) and navigate with ease through the system.

Ergonomics

- Stand-alone, no vibrations transmitted.
- Casters make it easy to roll in and out.
- Ergonomic, light and independent from the rack.



Options

- Plastic top with bottle indentation and hatch.
- Plastic top with bottle indentation without hatch.
- Plastic top with water pouch indentation with hatch.
- Plastic top with water pouch indentation without hatch.

Accessories

- Lifter.

Warranty

Double Decker cages are made of H-TEMP Polysulfone (PSU) caging, guaranteed for 3 years from the stamped date. This plastic is highly resistant and it can be autoclaved at 134° C/273° F. Considering an average of one autoclaving cycle per week, the 3 years of warranty are comparable to at least 150 cycles.

Related Products

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



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



Purple line DCC915. Drawer style cage for rats. The top stays on the rack while opening the cage. DCC stands for dynamic containment which is an unidirectional flow of air provided by the plastic top which protects the operators. Ideal for toxicology, oncology, protection for staff against allergens, quarantine.



900 Series Rack Washer. Designed specifically to meet the throughput needs of medium to large size facilities, these machines will live up to your highest expectations in terms of maximum cleaning efficiency, safety, environmentally-friendly and quality construction.



HEADQUARTERS

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

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

FRANCE | Tel. 04 72 52 94 41 • www.tecniplast.fr • E-mail: info@tecniplast.fr

GERMANY | Tel. 08805 921320 • www.tecniplast.de • E-mail: info@tecniplast.de

UNITED KINGDOM | Tel. 0845 0504556 • www.tecniplast.it • E-mail: info@tecniplastuk.com

JAPAN | Tel. + 03 5770 5375 • www.tecniplast.it • E-mail: info@tecniplastjapan.co.jp

USA/CANADA | Toll Free: 877.669.2243 • www.tecniplastusa.com • E-mail: info@tecniplastusa.com

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