

# Balanced Airflow

Continuing to refine industry leading AllerZone™ technology, Lab Products has developed a truly revolutionary concept: Balanced Airflow in ventilated Micro-Isolator™ housing systems.

## Why is Balanced Airflow desirable?

Balanced airflow enables researchers to maintain minimal airflow variations among individual cages, and provide improved indoor air quality for personnel. It safeguards against cross-contamination, improves the quality of life for animals, protects the integrity of research studies, and creates a healthier environment by limiting the exposure of personnel to airborne allergens. Our innovative, Enviro-Gard™ Environmental Control products offer remote monitoring and control 24 hours a day, with unmatched airflow balance and energy efficiency.

Providing a positive cage in a negative rack, with allergen control, AllerZone™ eliminates the decision of whether your cages should be positive or negative, with respect to the room. No competitive comparison exists. AllerZone™ technology represents the only high density ventilated cage rack technology available to achieve precision airflow balance, within less than 1 tenth of one CFM of airflow per cage, regardless of the number of cages being housed per rack.

## Balanced Supply and Exhaust



HEPA filtered supply airflow is delivered to each cage location in precise airflow patterns, maintaining positive pressure within each Micro-Isolator™. By creating a negative air pressure zone, AllerZone™ technology prevents cage air from escaping into the surrounding room, and room air from entering the cage. Expelled cage air along with additional room air is captured by the exhaust canopy and drawn into the negative airflow duct system of the rack. Exhaust air may be directly connected to building HVAC exhaust systems or HEPA filtered back into the surrounding room.

