



# Animal Care Systems

## Innovative Solutions



OptiMICE®

- Highest Density
- Uses no Electricity
- Saves Energy
- No Motors, Blowers or Vibration



ErgoMICE®

- Superior Containment and Isolation
- Odor and Allergen-free
- Easy to Maintain



OptiRAT®



Cirrus

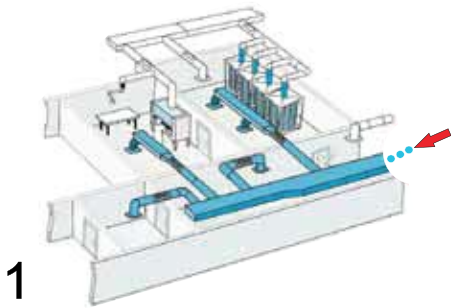
- Cirrus SPF Misting Station  
The Only Alternative  
to “Spray and Pray”

Superior Technology  
Custom Accessories

# Our Unique Technology

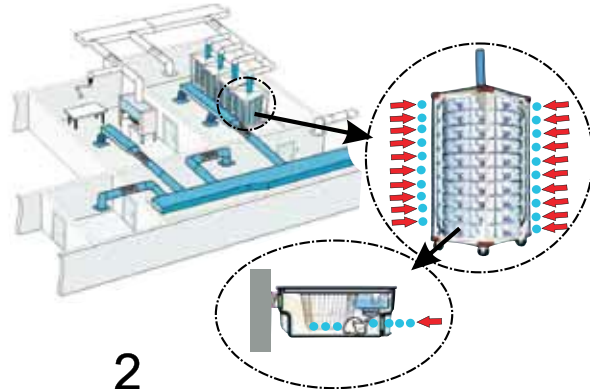
Animal Care Systems manufactures the only closed-system isolation cage design for rodents that provides a true barrier at cage level, with superior air quality and a total volume air change within the cage, with no electricity.

## How it works



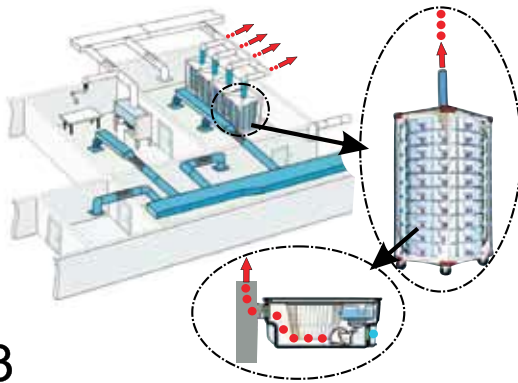
1

Clean air, either fresh or HEPA-filtered (represented in blue dots) is supplied by your HVAC system to the animal room.



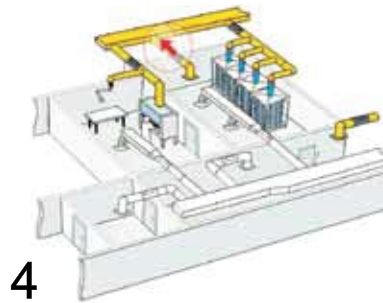
2

This fresh air is filtered again as it is drawn into each cage through the front filter, across the cage, and out the rear filter.



3

Filtered exhaust air (red dots) then travels out the rack plenum and out of the room by controlled exhaust ventilation. One-pass cage airflow eliminates drafts, turbulence and high turnover of dry air. This provides a stable micro-environment.

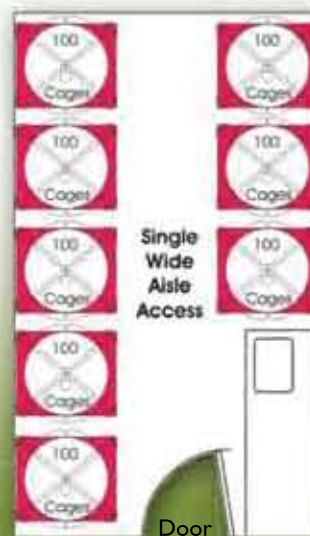
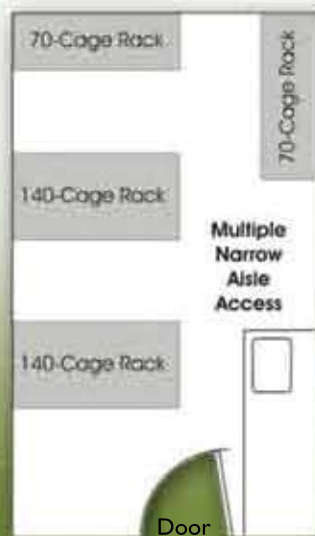


4

Both cage air and room air (represented in yellow) exhaust to the outside via the building HVAC.

## Cage Density Comparison

Room Layout Size 10x17  
Standard Mouse Rack  
Cage Density: 420



Room Layout Size 10x17  
OptiMICE Rack  
Cage Density: 800

## The Opti Carousel Caging System

Based on the patented direct exhaust ventilation technology used in the successful M.I.C.E.<sup>®</sup> System, the OptiMICE<sup>®</sup>, ErgoMICE<sup>®</sup> and OptiRAT<sup>®</sup> carousel design provides the highest cage density in the industry. The OptiMICE<sup>®</sup>, ErgoMICE<sup>®</sup> and OptiRAT<sup>®</sup> optimize the value and density equation, with 47 mice per square foot and 14.3 rats per square foot (< 400gm).



C79100M OptiMICE Cage Assembly

**OptiMICE<sup>®</sup>, ErgoMICE<sup>®</sup> and OptiRAT<sup>®</sup> are the most effective, energy-saving and user-friendly caging systems on the market today.**

### Single-Use Cages

Single-use cages are available for OptiMICE and ErgoMICE racks. They are interchangeable with conventional cages on either rack.

- Light cages molded from PET, a recyclable plastic easily identifiable by the numeral '1' in the recycling mobius triangle.
- Available for Edstrom's Sipper Sack<sup>®</sup>, Lab Product's Hydropac<sup>®</sup>, and Animal Care Systems 300 ml water bottle.

### Custom Accessories

Animal Care Systems offers a full range of accessories designed to optimize our unique caging systems and maximize the efficacy of lab animal research.



OptiRAT Rack Assembly



Single-use Cage Assembly with water bottle and bedding

## **Cirrus SPF Misting Station**

ACS' Cirrus SPF Misting Station is designed to eliminate many of the ergonomic, time-intensive and costly alternatives to disinfecting cages. Our misting station automatically provides superior full-coverage disinfection in less than a second.



### **This unique disinfecting system:**

- Offers universal cage compatibility
- Provides consistent coverage
- Keeps animals healthy and pathogen-free
- Greatly improves occupational health of research workers
- Saves time and money
- Recycles your excess collected chemicals for reuse

### **Improve the Productivity of Your Lab Today**

All of our products and custom accessories are listed and described in our catalog at [animalcaresystems.com](http://animalcaresystems.com). A printed version is available upon request.

*Animal Care Systems*

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