

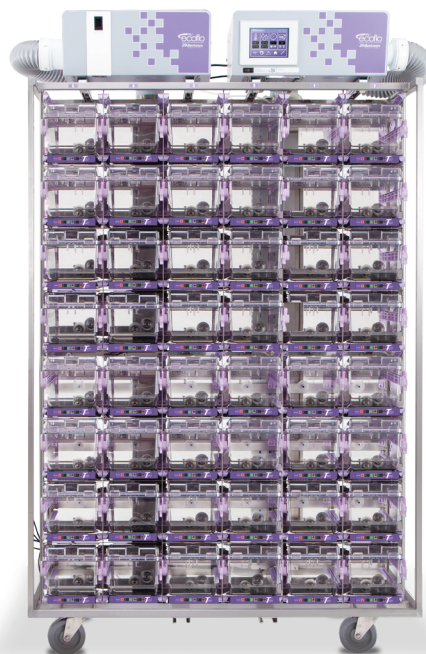


**Your trusted  
global partner  
in life-saving research**

For over 50 years, Allentown has provided critical solutions to the biomedical research community. Our high-quality equipment and advanced vivarium systems continue to define and exceed industry standards. Like everything we do, our unparalleled customer service is stamped with the Allentown hallmarks of integrity, dedication and care.

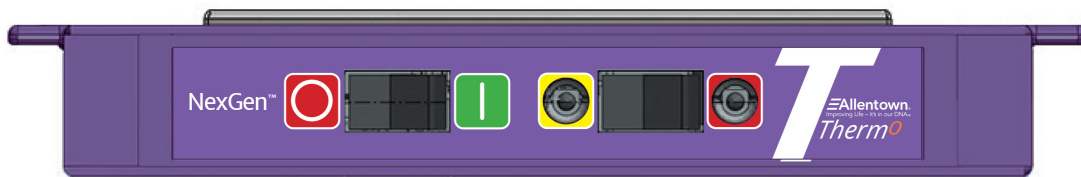
# Thermo IVC

THERMOREGULATION HOUSING



OVERVIEW

Providing critical solutions with integrity and care.



## Thermo IVC

The Allentown Thermo IVC system provides an advanced approach to improving rodent vivarium conditions. Its dual-zone temperature control features heated and non-heated surfaces, allowing mice to self-regulate their thermal environment rather than relying completely on facility room temperatures, which can be below their preferred thermal neutral zone. This design supports better animal welfare by allowing mice to control their thermal comfort and encourages species-specific behaviors. The Thermo IVC addresses important aspects of thermoregulation and environmental control, offering a solution that aligns with the evolving standards and needs of the modern vivarium.

## OVERVIEW

# Providing critical solutions with integrity and care.

## Benefits of Thermoregulation for Laboratory Animal Well-Being

- Enhanced Rodent Well-Being and Quality of Life – Provides rodents control over their thermal environment, allowing for natural behaviors and reducing stress. This enhanced autonomy fosters a more natural living environment, leading to better overall health.
- Natural Species-Specific Behavior – Supports natural behaviors by giving rodents control over their environment, enabling them to follow their instinctive behavior patterns, which leads to improved health and stress reduction.
- Reduced Stress and Improved Health – thermoregulation reduces stress, enhancing lab animal psychological and physical health, and supporting more stable metabolic and cardiovascular function.

## Benefits for Improved Research Quality

- **Temperature Control for Reproducibility and Regulatory Compliance**
  - Ensures precise and stable temperature regulation within each cage, which is critical for maintaining consistent experimental conditions, and reducing variability in outcomes.
  - Creates an optimal environment for rodents, reducing stress-related variables in studies, especially in temperature-sensitive research like metabolic or disease-related studies, resulting in more reliable data.
  - Thermo IVC meets modern vivarium and research guidelines, providing a controlled environment that supports reproducible research while ensuring animal welfare in line with best practices in lab animal care.
- **Support for Thermoneutrality**
  - Creates an optimal environment for rodents, reducing stress-related variables in studies, especially in temperature-sensitive research like metabolic or disease-related studies, resulting in more reliable data.
  - Stability. This flexibility helps accommodate unexpected fluctuations in room temperature and humidity, ensuring that rodents experience minimal stress and stable housing conditions.

## Unique Features

- Thermal heating of individual cage positions with 50 % surface area heated and 50 % non-heated.
- Individual power switch
- Power-on green LED indicator
- Heater active red LED indicator
- Minor manual adjustment for temperature
- Spring-operated plate to ensure cage contact
- 50 % contact area
- 115V AC input
- EasyDock to rack for ergonomic cage removal

