

BCU-2 BioContainment IVC

Rodent Housing

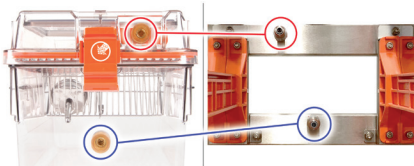


Designed in conjunction with customers who were looking for an alternative to glove-box isolators, Allentown brought the first BCU to market in 1997, and for more than 17 years it has continued to be the gold-standard in biocontainment housing. Now, Allentown has taken the groundbreaking innovations pioneered by the NexGen Easy IVC and applied them to the BCU-2...creating a new unit that maintains the solid, reliable performance of the original BCU, while providing the light weight, streamlined ease-of-use of the NexGen!

Patented 4-Point Seal

When you remove a cage from the Allentown BCU-2 system, both the cage AND the rack are sealed from the room. We accomplish this with quick disconnect couplings on both the cages and the rack that automatically seal once the cage is undocked from the rack. Our four-point-sealing system is so innovative that it's patented, and found nowhere else other than on Allentown housing solutions.

US Patent 6,308,660



SmartDock™ Technology Prevents Cages from Docking Incorrectly

The deceptively simple, yet critically important, modifications of Allentown's SmartDock Technology ensure that neither the cage nor the lid of the BCU-2 will dock incorrectly, securing the reliable connection of Allentown's patented four-point-sealing system, and the health and well-being of your valuable research animals! Add to this the highly visible docking indicator of our plastic cage runners, and docking your BCU-2 cages incorrectly becomes all but impossible!



Battery Backup

Being a completely sealed system, the Allentown BCU-2 unit requires a battery backup in the case of power failures or emergency conditions. With at least 10 hours of emergency backup power, blower redundancy, and wireless monitoring and alarming, the BCU-2 system allows ample time for laboratory staff to provide for the wellbeing of the animals during emergency conditions.



Easy Cage Removal and Wellness Checks

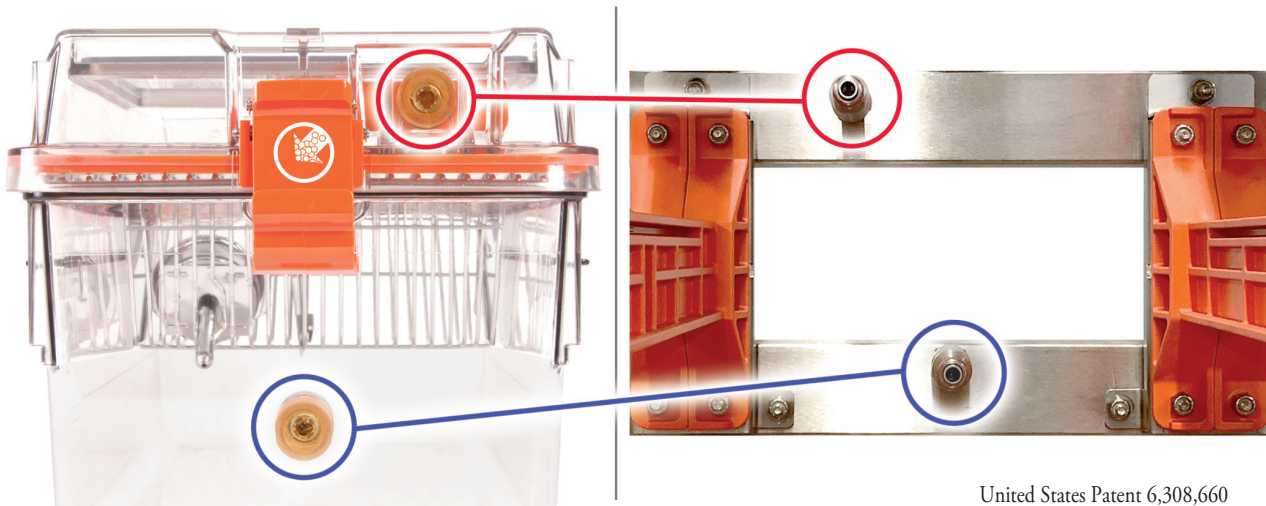
Smooth and easy sliding in, and the same sliding out...less stress and vibration for your animals and less repetitive motion strain on your staff...those are the benefits of the BCU-2's innovative plastic runner system. So innovative that the BCU-2 is changing the way animal care staff perform their wellness checks... they just slide their occupied cages out of their stalls ¾ of the way and assess their animals. No need to fully remove cages from the rack...making animal observation simpler, easier and faster!



BCU-2 Animal Transfer Unit (ATU)

A mobile animal transport/housing unit designed to provide a secure microenvironment for animals in transport or temporarily removed from the main population.





United States Patent 6,308,660

Rack System

- Lightweight, compact, and autoclave compatible rack design
- Patented four-point seal system. Upon removal of the cage, both the rack and cage are sealed from the room
- Plastic (polysulfone) cage support runners with integrated spring operated cage lock with docking indicator
- Ergonomic, single finger motion docking with auto-locking feature
- Horizontal airflow manifolds with stainless steel sanitary fittings for ease of cleaning
- 5" diameter stainless steel casters with gray polypropylene wheels with sealed ball bearings and (4) foot-operated brakes
- Same side supply and exhaust plenum configuration
- 3" diameter vertical supply and 3" diameter vertical exhaust plenums with back and bottom door access
- 304 stainless steel, welded frame construction, utilizing both square and rectangular structural tubing
- Air tubes are 304 stainless steel and never enter the cage
- 10+ hr. battery back-up with redundant power source
- Weekly cage change capable via single pass, constant airflow pattern yielding 40 ACH
- Rack level HEPA filtration – HEPA filtered air to animal and HEPA filtered exhaust
- Filter, blower and power alarming via dry contacts
- Blower battery gravity lock system when installed on rack
- Negative cage operation with control loop feedback for constant airflow
- Quick-release fittings for in-site HEPA certification or decontamination of entire rack system
- On-site control board programming of blower alarms, filter alarms, disconnected hose, battery operating airflow point and AC operating airflow point
- Real-time AC or battery indicator
- Fully autoclavable rack and cages
- Row and column identification labels
- Model number and serial number identification labels
- Optional WiVarium Plus Tablet Based Blower Control and Rack Monitoring
- Optional thimble hookup for the removal of heat and odor
- 12-cage Animal Transfer Unit (ATU) available

Cage System

- Cage floor space of 83 in²
- Clear polysulfone plastic
- Gasketed cage lid ensures safety and protection from damage, and maintains cage negative pressure when removed
- Standard cage level exhaust filtration
- Optional, certified cage level exhaust HEPA filtration
- Optional, certified cage level supply HEPA filtration
- SmartDock™ prevents cages from docking incorrectly
- Clear cage and flip-up cardholders improve observations
- Compact nesting and stacking for more efficient autoclaving throughput
- Front pocket wire bar lid or PFT