

Fully Negative pressure Operated Contained IVC system for housing Mice
Quantity: 1 system (A total of atleast 42 cages)

1. Cage design preferred with four-point sealing
2. IVC Rack design must be a Negatively pressured cage operation with control loop feedback for airflow
3. Upon removal of the cage, both the rack and cage must get sealed from the room environment
4. External 10 hour battery back-up with redundant power source must be provided
5. External battery pack must have real-time battery charge indicator
6. Airflow settable from 30 to 60 Air changes per hour
7. IVC Rack construction from stainless steel
8. IVC Rack must be fully autoclavable atleast at 121 degC
9. Rack must have HEPA filtration at both supply air & exhaust sides
10. Cage must be fully autoclavable atleast at 121 degC
11. Blower must have feature for Filter, blower, hose disconnections, power alarms
12. Thimble connection must be provided to hook up to the ceiling for the removal of heat and odor
13. Rack to have minimum of 42 cages on single side to house Mice
14. Blower speed must be continuously and automatically adjusted to maintain pre-defined or designated pressure
15. Blower must be micro processor controlled
16. There must be a redundant blower to provide ventilation in the event of malfunctioning of primary blower
17. Blower must indicate filter loading status & timeline for the replacement of filters
18. Floor area of the cage must be a minimum of 430 cm sq.
19. Cage construction material should be polysulfone& fully autoclavable
20. Cage filter top must have pre filter to prevent dust/debris built up
21. IVC rack to have self sealing for rack fittings
22. Cage to have single piece molded silicon rubber gasket seal for efficient containment
23. All the cages to be isolated while maintaining constant cage pressure whether on or off the rack
24. Every cage to have its own clamp, and additional clamps need to be provided at the time of supply that can be used if the primary clamping fails or broken
25. Extra bottle amounting to about fifty percent of the total numbers of cages should be supplied.
26. **A warranty of at least five years for IVC system and maintaining its efficiency should be provided after installation. Additionally the quotes for AMC subsequently. In case of malfunctioning and /or dysfunctioning of the system, the technical help and service should be available within shortest possible time frame.**