

## **Commodity Description for Mice IVCs**

### **A. General Specifications**

1. Description: Individually Ventilated Cage system for Mice
2. Component: Double sided rack\* 2 sets with one Air blower
3. Dimension(mm): less than 1800 W \* 900 D \* 2200 H / rack
4. Cage capacity: total 240~252 cages
5. Cage set: cage body, wire bar lid, filter-top cover, water bottle and nozzle, cage card holder  
All materials including cage set could be autoclavable.
6. Rack Frame, wire bar lid & bottle cap material: STS 304
7. Cage material (Cage body, water bottle, cover): clear Polysulfone
8. HEPA grade filter should be inserted cage top.
9. The air is supplied through the pre-filter and HEPA filter as well as exhaust.
10. The exhaust air always goes through the connection for reducing the odor.
11. The supply/exhaust nozzles make the animals reduce the stress and minimize the dirt.
12. In case both of the cages are on the rack and the removal from the rack, the containment is guaranteed.
13. External water bottle replaceable without removing the cage from the rack reduce cage opening frequency
14. Every part except blower should be easily dissembled and assembled for washing, autoclaving or chemical disinfection.

### **B. Performance Specifications**

1. Standard operation of Air Change per hour (ACH): more than 50/hr
2. Efficiency of HEPA filter of Air Handling Unit: 99.995% , 0.3  $\mu\text{m}$
3. Multi linking capability: one AHU serving up to 4 single-sided racks or 2 double-sided.
4. Chemical resistant and autoclavable.
5. Temperature and humidity sensor:  
The Temperature and Humidity all the time monitoring on the screen.
6. Replacing the HEPA filters monitoring
7. Noise level, vibration of blower should be minimized to animal < 50 dBA.

8. Positive or negative pressure inside the cage should be achieved over certain level.  
Display the pressure, ACH in each cage all the time monitoring on the screen.
9. System should alarm in event that one of temperature, humidity, pressure or ACH in the cage.
10. The IVC RACK Airflow should be controlled stably regardless of inserted cage quantity. Also pressure should maintain either positive pressure or negative pressure over certain level even though more than 90% cages are removed from the racks.

### **C. Remarks**

1. Three years warranty service will be provided.
2. Training is provided for the users.
3. The installation and operation test must be performed at IVI by supplier.
4. Acceptance Test Run must be confirmed by final user at IVI.
5. Concise user instruction shall accompany all units in the form of a user manual.
6. Validation report made by internationally accredited organization should be provided. (Pressure, Dead zone, Velocity and Noise etc.)
7. HEPA Filter installation certification should be provided.
8. Delivery date: within 7 month from the date of contract
9. Any equipment same or above this Commodity Description is acceptable for bid participation.