

IVC Animal Cage and Rack System For Mice – 12Nos.**Doc. No: ST/12/IVC-Mice/2016-17/11**

Individually Ventilated Caging System to house laboratory mice including cages ,racks, air Handling Unit and other accessories

CAGE

1. Overall dimensions Approx. (L x W x H):396 x215 x 172
2. Floor Area542 cm²
3. The cage is ventilated and might be run in positive or negative pressure mode: the operator will be able to change it easily via the AHU control panel.
4. Symmetrical cage body, it means possibility to work using both the cage sides without any problem of orienting it. Reducing time and effort during logistics and cage change procedure
5. Caging system featuring a nylon gasket between the top and the cage body, for sealing purposes.
6. Cage top featuring an external self-centering depression for water bottle, microbiological filter (filtration efficiency 99.5% referred to 0.3u particles size), supply and exhaust valve for air ventilation and nylon latches.
7. Water bottle with a cone-shaped AISI 316 stainless steel welding free cap to maximize water availability.
8. Inlet and outlet air nozzle not invasive inside the cage, thus avoiding cross-contamination.
9. Inlet and outlet air nozzle at the rear top of the cage preventing the animals from being exposed to air drafts and consequently from potential anxious behavior and stress.
10. Air speed in the cage lower than 0.2 m/sec.
11. The removal of cages will not adversely affect the distribution of the air supply to the remaining cages.
12. All components are to be autoclavable and washable.
13. Autoclavable plastic card holder.

RACK

1. Double sided racks with 126 Cages —.....No.s
2. Rack with system of vertical plenums which feature air nozzles (easy demountable for sanitization) for the supply and exhaust of air individually to each cage, both positioned in the top of the cage in order not to stress the animals with a direct airstream.
3. Vertical plenums will allow bedding particles and debris to fall by gravity (preventing plenum clogging and debris accumulation) to the main horizontal exhaust plenum that can be easily vacuumed or disconnected to be washed and sanitized.
4. AISI 304 stainless steel rack structure with plastic runners, cage coordinates and visual indicators for cage properly docked. Heavy duty, fully autoclavable fiber glass reinforced

nylon castors - maintenance-free, two with brakes and two without for optimal guidance.

5. The rack runners have built-in stoppers that fit the stopping lugs precisely, so each cage stops and locks silently into place automatically.
6. The main horizontal plenums have to be easy demountable (screw-free) for an easy washing and sanitization.
7. The horizontal plenums for supply and exhaust are completely circle in shape (not square) to facilitate the equal air distribution.

AIR HANDLING UNIT

1. Number of AHU Required : No.s
2. HEPA filtered air is delivered up to 80 Air Changes per Hour to each individually ventilated cage by an air handling unit equipped with an H14 HEPA filter for both supply and exhaust.
 - Multilinking capability (one AHU serving up to 4 single-sided racks or 2 double-sided) with the option of easily setting the number and the type of cages via the control panel.
 - Stand-alone, no vibrations transmitted to the racks.
 - Plastic and AISI 304 stainless steel structure, stand-alone on stainless steel ball bearing castors and nylon fiber glass reinforced wheels (two with brakes and two without) for easy roll in and out.
 - Microprocessor control board, for setting and control.
 - Temperature and humidity sensor.
 - DOP test certification for HEPA filters both supply and exhaust.
 - Dry contact for alarm connection to integrate with the building management software.
 - Noise level < 50 dBA.
 - Easy access to the pre-filters, with no tools needed for change.
 - TUV Certification well appreciated.

TESTS

The Air Handling unit should be supplied with the following test reports:

- Aeraulic tests (both in positive and negative pressure mode)
- DOP filter integrity test
- Electrical test
- Sensors calibration

General Points:

- Equipment manufacturer should have standard certifications like ISO 9001 and ISO 14001
- Please ensure that the specifications mentioned in the offers must cover all the parameters listed in our enquiry and should attach the supporting documents. Unspecified parameter will be treated as non-compliant.

- The principal/local agents are responsible for loading/unloading of material. Installation testing, checking of specifications and the validation should be done at the specified area. Training of users to be done free of cost at the site.
- Please confirm whether the spares and consumables for the system would be available for a minimum period of 10 yrs.
- Pre-installation and utility requirements for installation and running the system should be clearly mentioned.
- Availability of local service support and response time for a service call during and after the warranty to be specified.
- List of users in India and abroad of the similar models as the one(s) offered along with the names, addresses, telephone numbers and mail ID's to be enclosed separately
- Technical presentation and Demo on the systems offered is to be made on request from institute. In case any of the invited parties fails to demonstrate their compliance as per the demanded specifications, the party will be treated as disqualified.