



Mouse IVC cage set PPSU Model: AST-GS64 one cage for two mice Intelligent touch screen

Included: 1. Stainless steel cage rack

Specification: 1730×500×1870mm 8 layers × 8 cages = 64 cages 2 units

Stainless steel square tube: 25×25×1.5mm Special-shaped tube thickness: 1.5mm Material: Stainless 304

2. IVC main unit (intelligent touch screen)

Specification: 310×580×1650mm 1 unit

Built-in UPS uninterruptible power supply, capable of operating for more than 8 hours

3. IVC cage box (mouse box uses PPSU transparent material)

Specification: 390×200×160mm 128 sets

Configuration

The independent air supply isolation cage (IVC) consists of four parts: the air supply system, the exhaust system, the cage frame, and the mouse box. The fan is a low-noise fan. At the air intake box and exhaust box, there are primary and high-efficiency filters, with the high-efficiency filter efficiency reaching $\geq 99.99\%$. The pressure sensor uses a well-known brand. The cage frame is made of stainless steel 304 special-shaped tubes. The raw material of the mouse box is PPSU transparent material. The mouse box and all sealing materials use silicone rubber, which is resistant to acid and alkali, can withstand a temperature of 135°C and a pressure of 15 pounds for 30 minutes without deformation.

Technical Specifications

Item	Indicators
Power supply	220V, 50Hz
Power	200W
Displacement	200m ³ /h
Air change rate (times/hour)	10~50 (adjustable)
Air flow velocity (m/s)	≤ 0.18
Gradient pressure difference (Pa)	0~50 (adjustable)
Air cleanliness (class)	<100 级
Fall-off bacterial count (per four hours)	0
Noise (dB)	≤ 55
Item Power supply	

(Images are for reference only) Features:

1. The electrical components of the chassis comply with national electrical safety standards. The power supply is 220V and the pressure sensor is an imported product.
2. The cage frame is made of stainless steel 304 tubing, with polished surface, smooth inner wall, and no burrs at the welding points. The entire cage frame should be aesthetically pleasing, stable, and easy to move.
3. Other parts (the main chassis) use stainless steel 304 material with polished surface, smooth inner wall, and no burrs at the welding points.
4. It comes with a timer to remind users to replace the high-efficiency filter in time.
5. It has multiple alarm auxiliary functions such as power failure, equipment failure, and temperature/humidity over-limit. The power failure alarm reminds users to open the life window.
6. The main unit should use full LCD display and control; the main unit has a full stainless steel shell, a compact design, an inclined operation interface, and conforms to ergonomics. The top return air duct can be adjusted according to the height of the cage frame, and it is equipped with a low-noise fan, an intelligent control module, an automatic alarm system for temperature and pressure difference, a 7-inch HMI true-color touch screen, and a system using RS485 digital communication system. The small main unit can make the laboratory space fully utilized, with a



specification of 310×580×1650mm. The main unit is equipped with an UPS uninterruptible power supply with automatic charging and discharging function, and the UPS battery group uses lithium batteries, with a long service life and continuous power supply of over 8 hours when the power is cut off.

7. The air intake and exhaust holes of the cage frame adopt a stamping structure, which is convenient for disassembly and cleaning.

8. When the cage box is detached from the cage frame, the air intake and exhaust valves of the cage box can automatically close immediately, ensuring no leakage when removing the cage box and preventing cross-infection; the air intake and exhaust ports of the cage box and the cage frame are of non-intrusive structure.

9. There is an indication device for the cage frame guide rails indicating the position of the cage box. The two sides of the cage frame have coordinate numbers A, B, C, D... and the top of the cage frame has coordinate numbers 1, 2, 3, 4... for convenient accurate recording of the cage box position.

10. The cage box and the cage frame should be tightly connected and have good sealing performance. When the product is used in an ordinary environment, the cage box can always maintain SPF-level air cleanliness.

11. Mouse cage frame: Specification: 1730×500×1870mm; 8 layers × 8 cages = 64 cages × 2 units.

12. The raw material of the mouse cage box is PPSU transparent material, specification: 390×200×160mm; it has

good sealing performance, good transparency, and uses silicone rubber resistant to acid, alkali, and high temperature; the silicone rubber sealing strip can be sterilized under high pressure simultaneously; the stainless steel mesh cover: the diameter of the steel wire is $\Phi 1.8\text{mm} - \Phi 4.0\text{mm}$, the steel wire material is 1Cr18Ni9; it can be inserted with record cards, and the opening buckle is convenient to open.

13. The top of the cage box has a press-fit super large square life window, with sealing grooves around it, covering a $0.2\mu\text{m}$ high-efficiency filter membrane.

14. The cage box adopts a side-sealed structure, and the upper frame of the bottom box is embedded with a silicone rubber sealing strip, making the sealing performance better.

15. The bottle mouth valve of the cage box is a self-closing structure. After removing the drinking bottle, it can close the valve immediately.

16. External drinking bottle, with a capacity of 250ml, square with liquid level scale, the material is all PPSU transparent material, the bottle mouth is a medical silicone soft seal, the bottle mouth is made of 304 stainless steel material, electro-polished treatment, no water leakage phenomenon, the animal drinking bite area has no metal burrs phenomenon.

17. The cage box hook is made of aerospace engineering plastic PA66, one-piece, lightweight, quick to open, not



prone to deformation and damage, with a long service life. Just need to gently press the two ends of the box cover with your fingertip to open the box cover.

18. Cage cover filter device: At the air outlet of the cage cover, there is a plug-in type filter device, with a filter net ≥ 60 mesh, to prevent dust in the cage from entering the return air duct, the filter net size of the small mouse return air mouth filter device is $40\text{mm} \times 12\text{mm}$. The material should be the same as the cage box and can be sterilized under high pressure simultaneously. 19. The top of the cage cover is equipped with a snap-fit design. After the cage cover is opened, it can be easily placed vertically at a 90-degree angle at the rear end of the cage box, facilitating the operation of the operator. This enables the cage box to be placed regularly in the cage changing equipment, thereby improving work efficiency.

