IVC Cleaning System





Application

The use of an experimental animal cage cleaning machine during the cleaning process ensures the reliability of your research results.

Our system cleaning ensures the cleanliness of the animal facility. The perfect hygiene conditions are achieved through a high-quality system cleaning process. The fully automatic animal cage cleaning equipment is specifically designed based on the requirements of users in the experimental animal industry. It utilizes hot water combined with acidic or alkaline cleaning agents, high pressure, and high flow rate spraying method to achieve a fully automated spraying cleaning process for cages, cage covers, metal mesh frames, and water bottles.

Advantage

- 1.Advanced Microcomputer control system with full color LCD touch screen
- •The equipment is equipped with a PLC control system and a 10.2-inch touchscreen. The user can edit the cleaning program on the interface, such as cleaning water temperature, rinsing water temperature, cleaning time, rinsing time, and drainage time.
- •Users can edit up to 24 different programs according to their needs. There are two cleaning modes available. One program combines alkaline cleaning and rinsing, while another program includes alkaline cleaning, acid neutralization, and high-temperature pure water rinsing.
- 2.Advanced cleaning system.
- •The equipment uses softened water as the working medium. Through a high-flow circulation pump, the water inside the cleaning chamber is circulated in the cleaning pipeline and sprayed onto the cage box through the spray arm, providing a powerful rinse for the items. The equipment's rinsing process involves directly spraying clean purified water from the water tank onto the cleaned cage box, achieving a clean rinsing effect. The high-temperature purified rinse water is recycled and used as the cleaning water for the next cycle, saving resources.

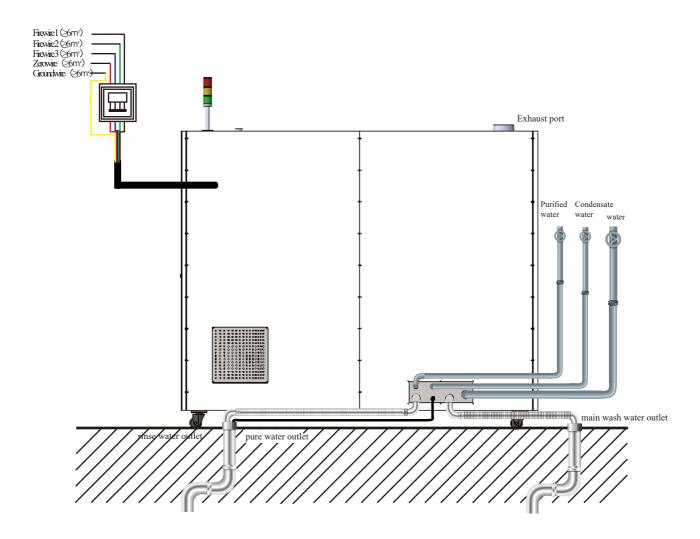
Acidic cleaning and alkaline cleaning.

Cleaning way	Acidic cleaning	Alkaline cleaning
Usage	Effectively removes urine stains and lime deposits,especially	Effectively remove various organic residues in
	suitable for cleaning animal cages and water dispensers.	rodent cages.
Material compatibility	Suitable for materials such as polystyrene (PS), polycarbonate (PC), polyetherimide (PEI), and stainless steel.	
Automatic spray cleaning	Acidic liquid, highly efficient cleaning agent without surfactants	Alkaline liquid, an efficient cleaning agent that does
		not contain surfactants, phosphates and oxidants. It
		is recommended to use an acidic cleaning agent for
		neutralization after alkaline cleaning to avoid alkaline
		residues.
Drying	Adequate rinsing will prevent limescale spots from forming on the surface after drying. Polysulfone (PS) materials must	
	use surfactant-free cleaning agents	



IVC Cleaning System





Advantage

3.Advanced Flushing system

- •An independent rinse water pump with a rated flow rate of 45L/min is capable of providing spray rinsing at a head of 17 meters. The power consumption is ≤0.3kw. It is equipped with an independent temperature-controlled water tank, as well as separate spray piping and spray water pump. The pump does not participate in the cleaning process, ensuring the absolute cleanliness of the spray water.
- •The rated flow rate of the cleaning circulation pump is 500L/min at a head of 13 meters. The power consumption is ≤1.5kw. The pump head is made of 316 stainless steel for spray cleaning. It is equipped with a soft start frequency conversion function to reduce the damage to the equipment caused by excessive spray pressure during pump startup.
- •Cage box placement method: The cage boxes inside the cleaning chamber can be tilted and placed horizontally freely. The cleaning rack can be adaptively adjusted to simultaneously accommodate various types of cages, such as those for mice, guinea pigs, and rabbits.

4.Safety System

- •Door lock device: The door cannot be cleaned when it is in the open position.
- •Emergency braking device: The control panel is equipped with an emergency braking device.
- •Power failure protection device: Automatically shuts off the water and steam pipelines in the event of a power failure.
- •Abnormal situation alarm: Audible and visual alarm.

Specification

Model		IVC-100
Capacity(L)		1200L
Display		10.2 inch LCD touch screen
Standard Program		24
Cleaning System	Cleaning method	Spray cleaning
	Main washing temperature	≤50 ℃ (Adjustable)
	Rinse temperature	≤80 ℃ (Adjustable)
	Lotion pump	1100ml/min
	Cleaning spout	≥44 units
	Rinse spout	≥86units
	Cleaning layers	2 Layers
	Maximum cleaning height	340mm/layer
	Washable cages	28 units
Water inlet pipe	Quantity	1
· ·	Length	2m
	Material	Food grade silicone tube
Water outlet pipe	Quantity	1
	Length	2m
	Material	PE
Water Pump	Brand	World-renowned brand
	Flow Rate	500L/min
	Consumption	1.5 kW
Structure Material	External	304 stainless steel
	Cleaning chamber	304 stainless steel
	Door	Single door
	Caster	four universal casters at the bottom of the instrument for easy movement
Total Consumption		20Kw
Power Supply		380V,50/60Hz
External Size(W×D×H)(mm)		2050x850x1950
Shipping size(W×D×H)(mm)		2200x1030x2170mm
N.W./G.W. (kg)		850/900