

Automatic cage cleaning machine



1. Product Purpose:

The fully automatic cage cleaning machine is designed for the laboratory animal industry, suitable for the automatic cleaning, disinfection, and drying of animal cages, drinking bottles, feed boxes, and other equipment used in laboratory animal husbandry.

2. Standardized cleaning:

The automatic program controls the cleaning process and monitors the key cleaning parameters, so that the items can be cleaned automatically and standardly.

The cleaning efficacy is consistent across different batches and at each cleaning station within the same batch.

It can realize the data traceability management.

3. Feature Introduction:

efficient :

- Preheat water tank to reduce water heating preparation time;
- The quick cleaning program allows for cleaning every 4-6 minutes, meeting the requirement for rapid cleaning.
- One time can wash up to 40 mouse IVC cages.

Effective cleaning:

- An independent pipeline design for cleaning and rinsing is adopted to ensure no residue remains on the surface of items after cleaning.
- Authentic imported European circulation pump with high-capacity design and powerful spray force ensures stable performance, significantly enhancing cleaning efficiency.
- The patented spray arm with a fan-shaped water curtain ensures 360° cleaning of the vessel's exterior surface without dead zones.
- The peristaltic pump automatically dosed cleaning additives to ensure consistent cleaning data.

low-energy :

- The final rinse water is used for the next cleaning, saving water;
- The cleaning cabin and preheating water tank are externally insulated with thermal insulation materials, effectively reducing heat loss and noise.

navar

- The user interface features a 7-inch color LCD touchscreen for intuitive operation.
- The Siemens PLC programmable operating system features stable and reliable performance, with magnetic shielding and anti-penetration capabilities. It is independently designed and developed to meet diverse operational and management requirements.
- The parameters such as cleaning temperature, time and cleaning agent dosage can be set by yourself.
- The LCD screen displays the current operation steps and working parameters in real time.
- The device features power-off memory. If the power is interrupted during program execution, it can resume the pre-interruption state until completion upon power restoration.
- Alarm functions: circulating pump overheating, abnormal water heating, abnormal air heating, cleaning fluid shortage, abnormal water intake, etc.

structure

- The shell is made of 304 stainless steel, which is corrosion-resistant, durable, and easy to clean.
- The cleaning chamber is constructed with mirror-polished 316L stainless steel to minimize residue, while its sloping base design enhances water recirculation efficiency.
- Double-layer insulating tempered glass doors with excellent heat insulation, noise reduction and clear visibility.

order

- The cleaning function includes 10 standard programs, each with customizable cleaning parameters, and 100 user-defined programs that can be labeled in Chinese, English, or numbers.
- Manual program: Enables manual testing and operation with greater flexibility.
- Disinfection procedure: Enables thermal disinfection with real-time display and calibration of disinfection level via A0 value.

safe guarding :

- The device is equipped with an emergency stop switch that can immediately cut off the power supply to halt operation in emergencies.
- The device features real-time leakage monitoring:
- The sealed door is equipped with a safety protection device, which automatically stops in case of obstacles during operation to prevent accidents.
- After the equipment cleaning process is initiated, the door will automatically lock and cannot be opened. The cabin door can only be opened after the entire process is completed and the temperature has been reduced.

4. Technical Parameters

model	CTCW-1500	CTCW-1500Z
External dimensions (W*D*H) mm	2140×925×1950	
lumen volume	1500L	
navar	PLC/ siemens	
touch screen	7 inches	
flushing dose	Up to 40 mouse IVC cages can be cleaned	
Cleaning time	Quick cleaning procedure: 4-6 minutes	
Opening method	Automatic lifting door	
Cleaning temperature	>60°C (adjustable)	
Rinse temperature	>82°C (adjustable)	
Heating method	electrical heating	steam heating
source	AC 380V/50Hz 34kW	AC 380V/50Hz 4kW
vapour source	/	Pressure: 0.3-0.5 Mpa, Flow rate: 50 kg/h
headwaters	Water softening: Pressure: 0.2-0.5 MPa, Flow rate: 25 L/min	
Compressed air source	Pressure: 0.5~0.7 Mpa, Flow rate: 100 L/min	