

EURPING

Poseidon Series

Meet cGMP pharmaceutical requirements



Eurping, concentrate on laboratory cleaning
Laboratory standardized cleaning solution supplier



COMPANY PROFILE

Tianjin Eurping Instrument Technology Co., Ltd. was established in 2008, it is an enterprise integrating research, production, sales and after-sale service of laboratory cleaning equipment. The main products include GMP glassware washer、 animal cage washer、 laboratory glassware washer、 acid steam cleaning system. After years of hard work and development, Eurping has grown into a leading brand in the field of Chinese utensils cleaning market and keeping ahead in market share、 production scale、 product technology performance、 sales and after-sales service.

Eurping pharmaceutical life science industrial cleaning system is a special cleaning system for cleaning key components, for example, fermentation tanks, large balloon bottles, large glass products, filling and packaging machine parts, mixers, funnels, pallets, boxes, tableting tools and other items for the production of medicines, diagnostics, cosmetics and food.

Full pharmaceutical material

Safer and cleaner of pharmaceutical production

Structure

Hollow tempered glass door allows the operator to observe the inside of the chamber and ensures the complete tightness of the cleaning chamber.

Double door design, cleaning in contaminated area and taking out in clean area.

Emergency stop switch to prepare for the need of safe emergency stop.

External transport vehicle can be raised and lowered with one key to achieve loading and unloading of the basket.

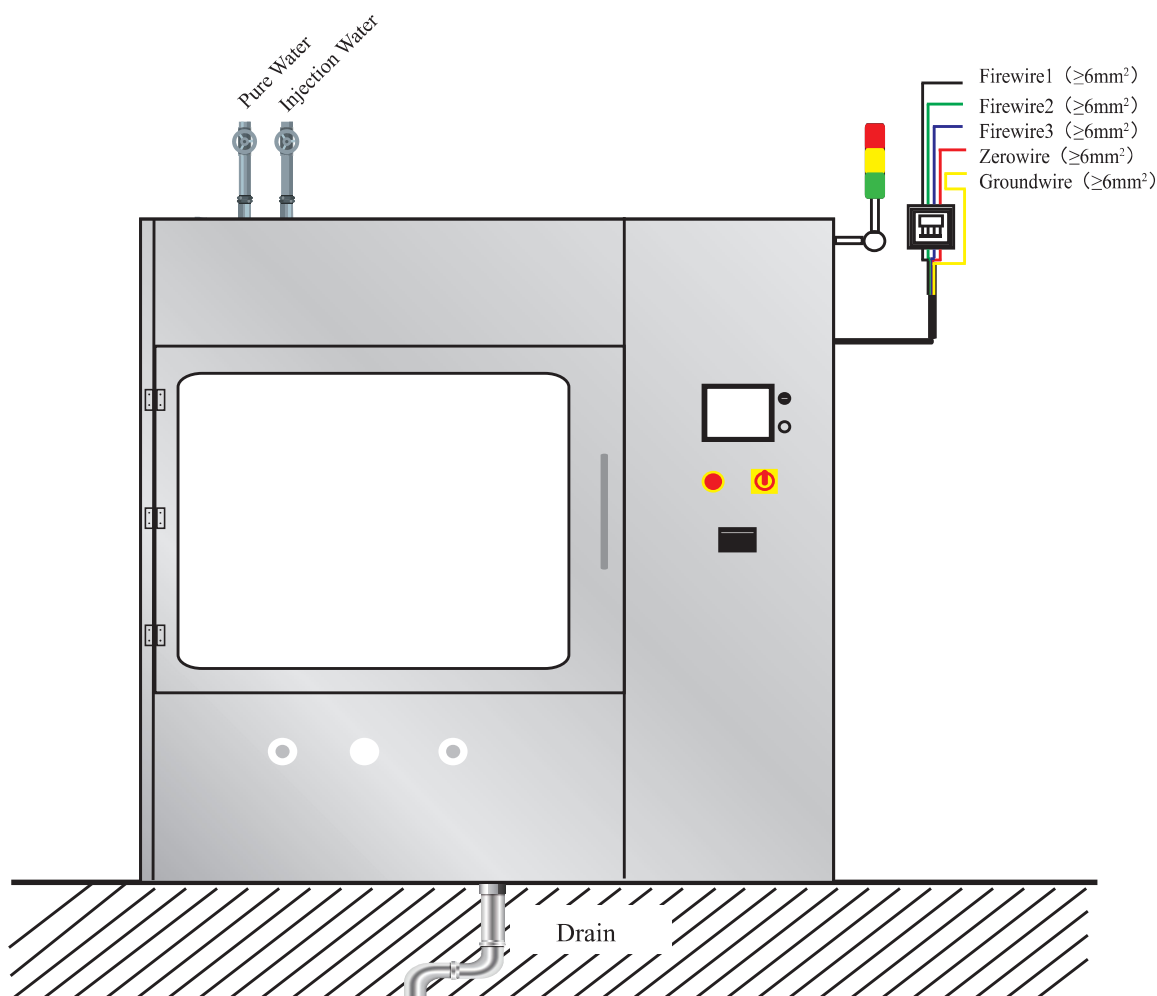
Material

Cleaning chamber (including water tank): 316 stainless steel and shell is 304 stainless steel

Argon welding and polishing of bottom warehouse to achieve $RA < 0.4\mu m$ smoothness

All the circulation pipelines of the machine and the positions in contact with the circulating medium are made of 316 stainless steel, pharmaceutical grade silicone rubber, and PTFE;

Cavity lighting: installed in the cleaning chamber.



Control System

Siemens S7-1200 control system with 7 inch full color touch screen, including many standard procedures and self-defined procedures. The cleaning program can be programmed according to user needs and cycle phase, — temperature, cleaning agent dosage, inlet water source and other key process parameters also can be programmed.

The control system also includes a service model: :preventive maintenance, indentify and solve the fault, equipped with a service diagnostic program, which can perform self test and inspection of the components.

Support LIMS system, support handshake protocol, transmit cleaning data.

Circulation System

AISI316L is used to manufacture circulating water pumps, the pump casing and impeller are polished to reach a smoothness of $Ra \leq 0.6\mu m$, eliminating chemical residue;

Circulating pump adopts soft-start control to prevent utensils from being impacted when the pump starts.

Multi-channel cleaning agent peristaltic pump can dispense cleaning agent into the chamber according to the program, and a low liquid level sensor to monitor liquid shortage.

Piping System

The basket can be customized according to your cleaning utensils.

The machine uses a single/double channel to supply water to the cleaning basket and the water in the pipeline is drained after each cycle.

Equipped with pressure sensors, and the screen displays the pressure of the cleaning spray in real time.

The spray arm rotation speed sensor monitors the clean-



Poseidon 600

ing status in real time.

Flowmeter was set in to measure water, the chamber is equipped with low and high level alarm devices to provide protection for cleaning water.

Drying system

Compression fan drying system and dry air reaches the inside of the utensils directly through the basket.

Safety protection system

The door seal adopts a tight pressure method, and the seal ring is inflated to prevent water leakage caused by imperfect seal.

Water heating over temperature protection, hot air heating

over temperature protection, water pump over temperature protection, fan over temperature protection.

Monitoring water leakage in real time, and recovering automatically after water cut. The program is memorized automatically after the power is cut off and have the remind function when the cleaning agent is lacking.

Multi-layer filtration system: multi-filter protection to prevent debris from entering the pipeline and causing blockage, there is a special collection system for debris.

The running status indicator light placed on the top of the machine, displays the running status of the machine through green, yellow, and red.



Poseidon 300

Cleaning Verification

Eurping has passed ISO9001 certification and guarantees the development and construction of the system with a high degree of quality awareness, the controlled process complies with FDA directives IQ/OQ and FAT/SAT according to cGMP and GAMP guidelines. Well-trained professionals can set up、connect and used the cleaning system, and carry out calibration、installation and operation verification(IQ/OQ), and provide support in performance verification(PQ).

Provide a printer to print cleaning data.

Provide a USB interface, U disk to save cleaning data, the exported data is in PDF and non-editable format, in order to prepare for audit trail operation records.

The machine has a water sample port to allow field test water collection.

Use conductivity to detect the quality of the final flushing water, and judge whether to flush again according to the set data;Three-level authority management, audit trail.



Liftable basket carrier

Cleaning Basket



1 L Blue Cap Bottle Cleaning Basket



10 L Vigorously Bottle Cleaning Basket



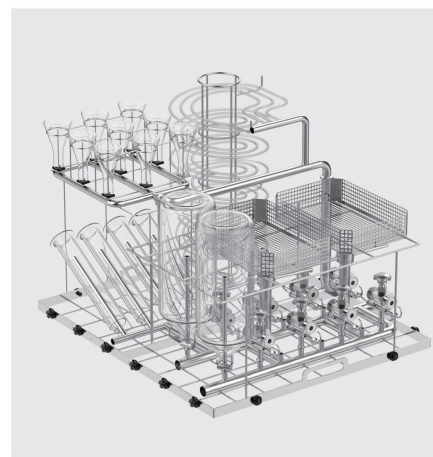
20 L Vigorously Bottle Cleaning Basket



Needle Cleaning Basket



Hose Cleaning Basket



Customized Cleaning Basket

Number of Cleaning

Type of Cleaning	Shape and Volume	Poseidon300	Poseidon600	Poseidon1200
1L Blue Cap Bottle	H:225mm,Φ:100mm	48	80	126
10L Blue Cap Bottle	H:415mm,Φ:230mm	5	9	16
20L Blue Cap Bottle	H:510mm,Φ:300mm	2	4	9
10L Vigorously Bottle	H:435mm,Φ:230mm	5	9	16
15L Vigorously Bottle	H:535mm,Φ:240mm	5	6	12
20L Vigorously Bottle	H:510mm,Φ:300mm	2	4	9
Hose	De:10mm,D:8mm	Actual	Actual	Actual
Needle		Actual	Actual	Actual
Stainless Steel Fittings		Actual	Actual	Actual

If you need a custom basket, please fill in the following information

Utensils Type	Dimensions	Number	Contaminant Type

Technical specification	Poseidon 300	Poseidon600	Poseidon1200
Control System	Simens S7-1200	Simens S7-1200	Simens S7-1200
Display Screen	7 inch	7 inch	7 inch
Standard Procedures	10	10	10
Self-defined Procedures	10	20	20
Door Opening Method	single door	single/double door	single/double door
Circulating Pump 1	800L/min	800L/min	800L/min
Circulating Pump 2	--	800L/min	1200L/min
Circulating Pump with Soft Start	Yes	Yes	Yes
Spary Arm Speed Sensor	Yes	Yes	Yes
Pipeline Pressure Sensor	Display in Screen	Display in Screen	Display in Screen
Cleaning Data Store	U Disk	U Disk	U Disk
Audit Trail	U Disk	U Disk	U Disk
Authority Management	Three-level	Three-level	Three-level
Printer	Yes	Yes	Yes
LIMS Connect	Support Handshake Protocol	Support Handshake Protocol	Support Handshake Protocol
Adding Cleaning Agent	2 Aisle	2 Aisle	2 Aisle
Cleaning Agent Chamber	6KG/Bucket*2	6KG/Bucket*2	12KG/Bucket*2
Alarm for shortage of Cleaning Agent	Yes	Yes	Yes
Cleaning Temperature	25~93°C	25~93°C	25~93°C
Drying Temperature	25~120°C	25~120°C	25~120°C
Drying Fan Power	700W/Fan	700W/Fan *2	700W/Fan*2
Hot Air Heating Power	3000W	6000W	6000W
Hot Air Circulation	145 M³/H	290M³/H	290M³/H
Steam Condenser	Yes	Yes	Yes
Chamber Volume	393L	688L	1210L
Inner Dimensions(L*W*H)	680*680*850mm	830*830*1000mm	1100*1100*1000mm
External Dimensions(L*W*H)	1170*767*1811mm	1326*942*1981mm	1761*1212*1980mm

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