EURPING

Laboratroy glassware washer
Acid steam cleaning system
GMP washer
IVC series

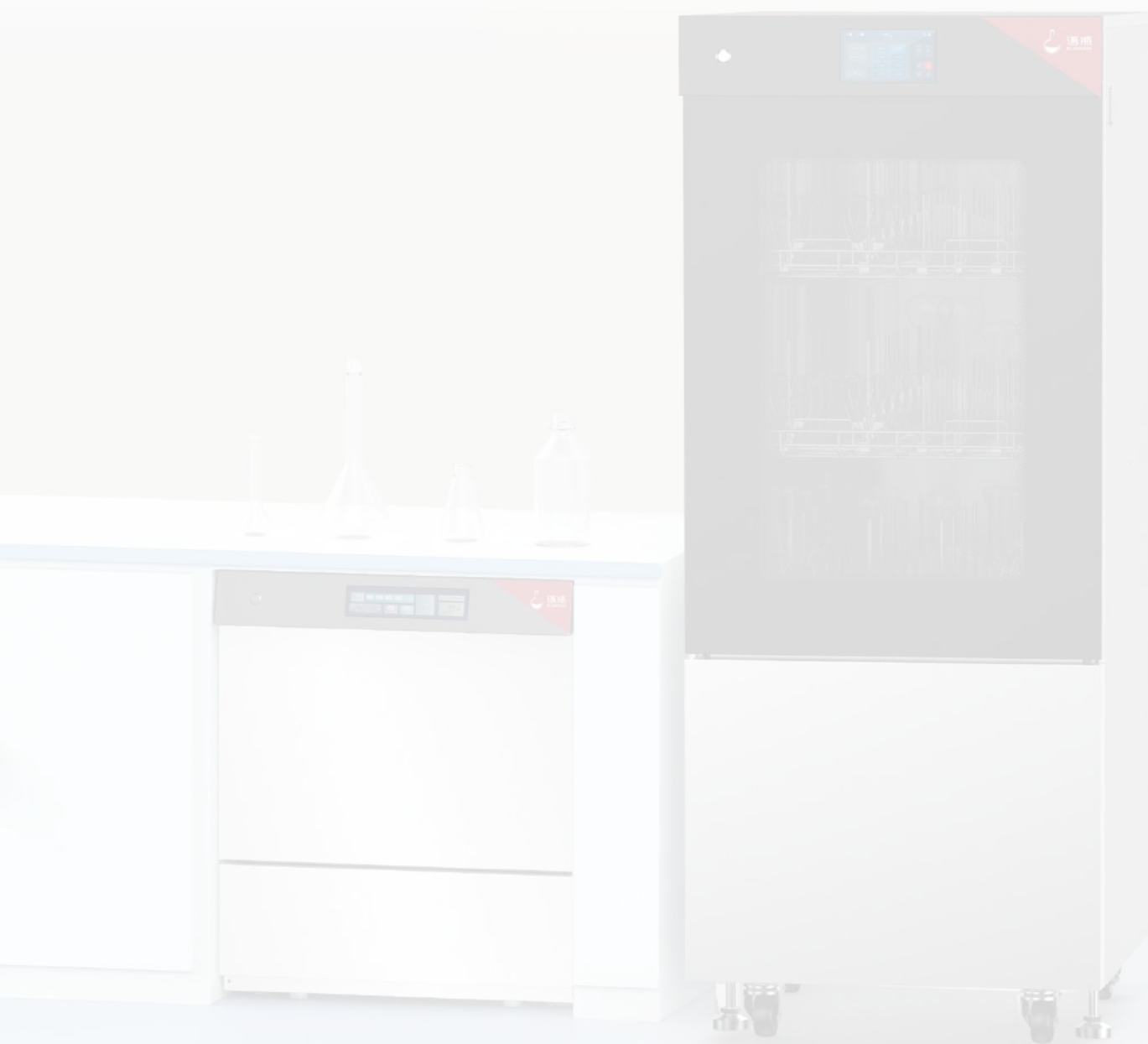# Standard cleaning solution provider

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. Our customers are from third-party testing institutions, government laboratories, scientific research institutes and universities, etc. Our products are favored by experimenters and it is also a powerful proof of our product quality and brand influence.
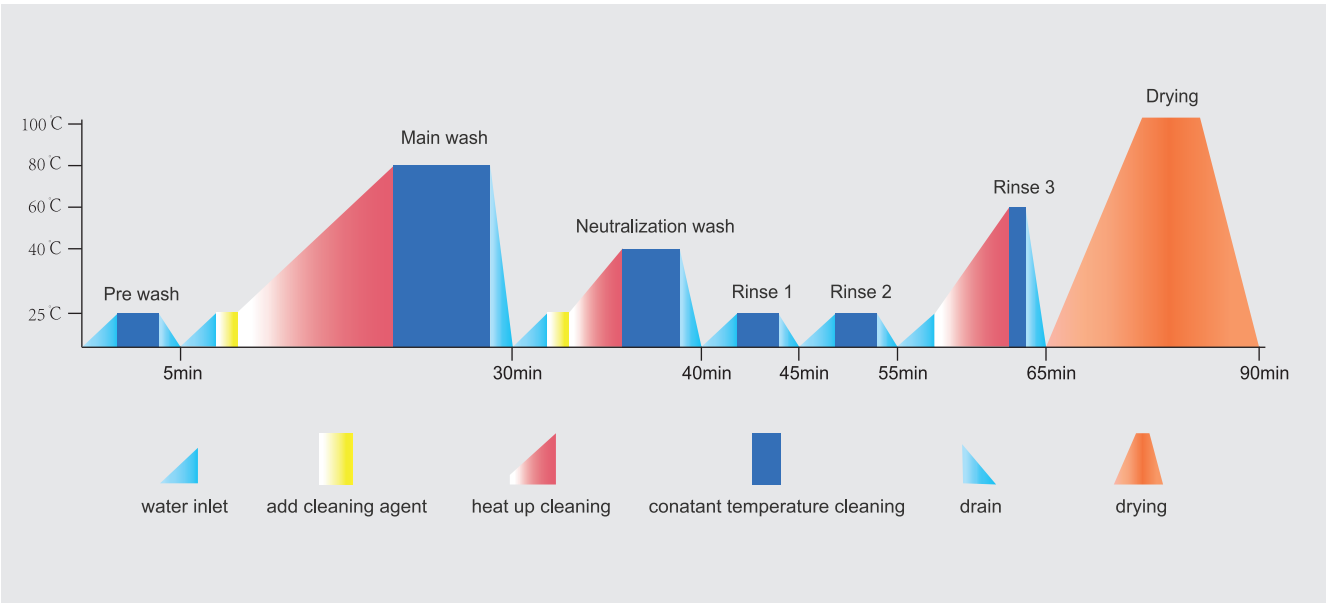
Honor

- More than 20 self-owned patents

- National high-tech enterprise

- Annual sales of more than 500 units

- 2016 Awarded "good domestic instrument"

- 2017 Awarded "most concerned instrument"

- 2018 Awarded "most concerned instrument"

- 2019 Awarded "annual users favor instrument of scientific instrument industries"

- 2020 Awarded "annual users favor instrument of scientific instrument industries"

- 2021 Awarded "most concerned instrument"

Laboratory glassware washer

It is used for automatic cleaning, rinsing and drying of triangular flasks, volumetric flasks, test tubes, beakers, pipettes, chromatographic sampling bottles and other routine laboratory utensils. It can be used in all related industry laboratories that need to be cleaned.

Cleaning program and parameters

Cleaning program

	Time（min）	Tempt(℃)	Alkaline（ml）	Acid(ml)	Water source
Pre-wash	2	10	0	0	tap water
Main wash	15	70	50	0	tap water
Neutralization	3	40	0	50	tap water
Rinse 1	1	10	0	0	tap water
Rinse 2	1	10	0	0	purified water
Rinse 3	1	60	0	0	purified water
Drying	5	100	0	0	—

Cleaning parameters

Parameter

Microcomputer chip control technology(non-PLC)

The main control circuit adopt gold-plating technology and military-grade electronic devices.

Full color OLED LCD touch screen operating system

Fingerprint recognition system and SD card

30 standard progrm and 120 self-defined program

Variable frequency soft-start function

The circulating water can be adjusted from 0-1600L/min. The pipeline pressure was monitored through sensor in real-time and the pump can be stopped when the pressure is too low or disappear.

Back water supply method

The pressure is uniform and the water outlet height is same.Cleaning basket adopt FL-EXCH module design, every 1/2 module can be changed freely,cleaning basket adopt quick-plug design, easy to install.

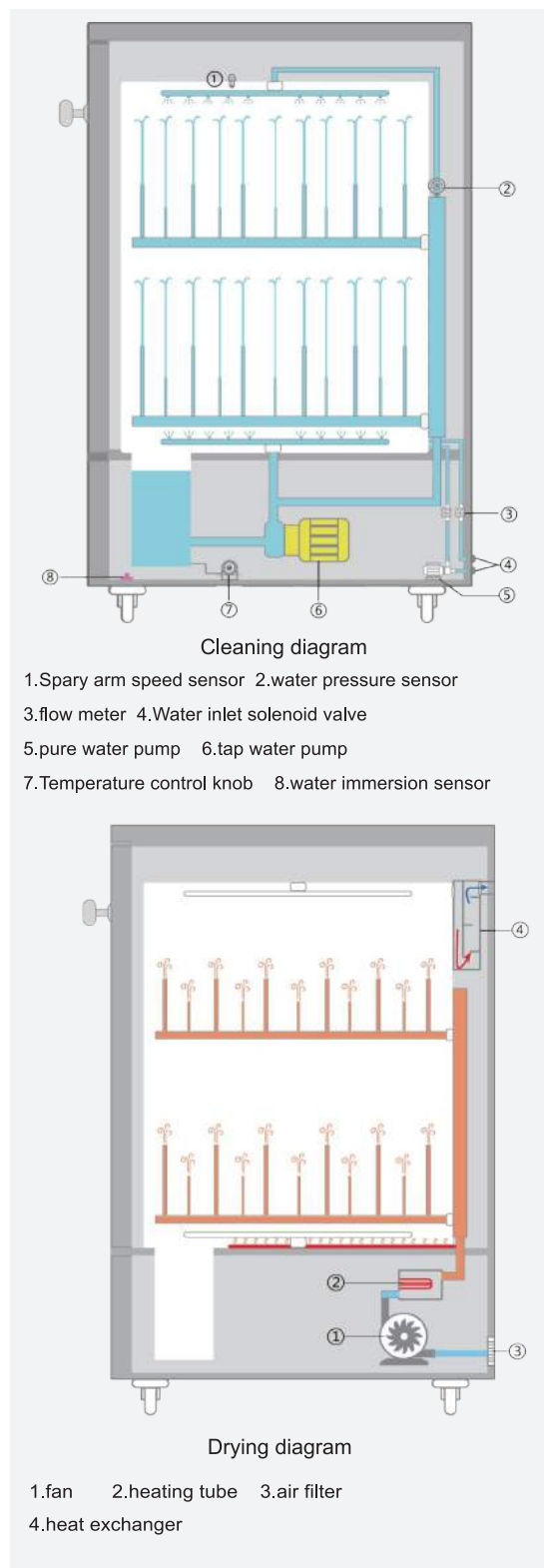## Black box was set to record the running status

Buzzing and panel reminding after the cleaning, cleaning data can be stored and printed.

Safety protection system

Water heating over temperature protection,hot air heating over temperature protection,monitoring water leakage.

The instrument will recovery automatically after water cut,and have the remain function when the cleaning agent is lacking.
Multi-layer filtration system to prevent pollutants.

Cleaning diagram

1.Spary arm speed sensor 2.water pressure sensor
3.flow meter 4.Water inlet solenoid valve
5.pure water pump   6.tap water pump
7.Temperature control knob   8.water immersion sensor

Drying diagram

1.fan   2.heating tube   3.air filter
4.heat exchanger

Lab washer LW160

Small size,it can placed under the bench or on the bench,it is an economical and practical lab washer.

Lab washer LW190/LW190P

Small size, large cleaning volume, the drying function can select.

Parameters	LW160	LW190	LW190P
Power	220V 5kW	220V 5kW	220V 5kW
Screen size	8.8inch	8.8inch	8.8inch
Standard program	30	30	30
Self-defined program	120	120	120
Pump flow	0-400L/MIN	0-500L/MIN	0-500L/MIN
printer interface	–	–	Yes
Drying system	Box drying	No	Injection drying
Air heating power	0. 5kW	3kW	3kW
Black box system	Yes	Yes	Yes
Cleaning basket layer	one layer	two layer	two layer
Intelligent switch door	Yes	Yes	Yes
3 level permissions	Yes	Yes	Yes
Cleaning basket identification	–	–	–
Pipeline Pressure Monitoring	Yes	Yes	Yes
Fingerprint identification system	–	–	–
SD card store system	–	–	Yes
Cleaning chamber volume	158L	185L	185L
External diameter:mm(L×W×H)	640×726×778	670×691×940	670×691×940

Lab washer LW220/LW220H

The most representative lab washer, meeting the cleaning requirements of most laboratories.

Lab washer LW230/LW230H

High-throughput cleaning while occupying a smaller footprint.

Parameters	LW220	LW220H	LW230	LW230H
Power	220V 5kW	380V 10kW	220V 5kW	380V 10kW
Screen size	7inch	7inch	7inch	7inch
Standard program	30	30	30	30
Self-defined program	120	120	120	120
Pump flow	0-600L/MIN	0-600L/MIN	0-600L/MIN	0-600L/MIN
Printer interface	Yes	Yes	Yes	Yes
Drying system	Injection drying	Injection drying	Injection drying	Injection drying
Air heating power	3kW	3kW	3kW	3kW
Black box system	Yes	Yes	Yes	Yes
Cleaning basket layer	2 layer	2 layer	2 layer	2 layer
Intelligent switch door	Yes	Yes	Yes	Yes
3 level permissions	Yes	Yes	Yes	Yes
Cleaning basket identification	Yes	Yes	Yes	Yes
Pipeline pressure monitoring	Yes	Yes	Yes	Yes
Fingerprint identification system	Yes	Yes	Yes	Yes
SD card store system	Yes	Yes	Yes	Yes
Cleaning chamber volume	223L	223L	223L	223L
External diameter:mm(L×W×H)	915×760×1200	915×760×1200	670×760×1400	670×760×1400

Lab washer LW320/LW320H

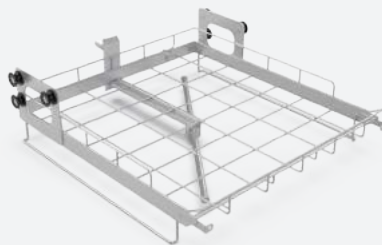Large cleaning volume, it can place 3 layers of cleaning basket.

Lab washer LW640

Simen control system, it can place 6 layers of cleaning basket.

Parameters	LW320	LW320H	LW640
Power	220V 5kW	380V 10kW	380V 21kW
Screen size	7 inch	7 inch	7 inch
Standard program	30	30	10
Self-defined program	120	120	10
Pump flow	0-800L/MIN	0-800L/MIN	0-1600L/MIN
Printer interface	Yes	Yes	Built in printer
Drying system	Injection drying	Injection drying	Injection drying
Air heating power	4kW	4kW	8kW
Black box system	Yes	Yes	Yes
Cleaning basket layer	3 layer	3 layer	6 layer
Intelligent switch door	Yes	Yes	Yes
3 level permissions	Yes	Yes	Yes, 4 level
Cleaning basket identification	Yes	Yes	–
Pipeline pressure monitoring	Yes	Yes	Yes
Fingerprint identification system	Yes	Yes	–
SD card store system	Yes	Yes	Yes,U disk
Cleaning chamber volume	317L	317L	680L
External diameter:mm(L×W×H)	670×757×1650	670×757×1650	1560×790×1980

SC-01 Upper cleaning chassis
without spray arm
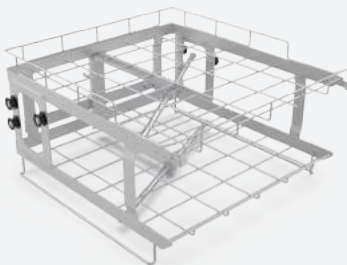
Place PLYT,PLWT,PL,MX,

SC-02 Upper cleaning chassis
with spray arm

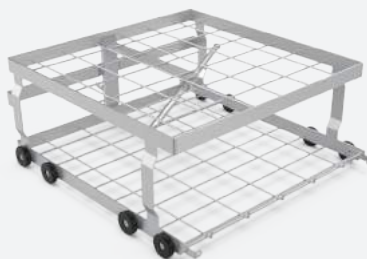Place K-01,K-02,K-03,K-04,K-30

XC-03 Lower cleaning chassis
without spray arm

Place all kinds of cleaning basket.

SC-05 Upper cleaning chassis
with spray arm

Place K-01,K-02,K-30

XC-06 Lower cleaning chassis
with spray arm

Place K-01,K-02,K-30

SC-07 Upper cleaning chassis
with spray arm

Only place K-03

XC-08 Lower cleaning chassis
without spray arm

Only place K-03

PLYT-08 8 positions
cleaning bottle size:250-2000ml

PLYT-08 cleaning erlenmeyer flask,
volumetric flask with cross bottle holder.

Without three-petal flower basket bottle
holder.

PLYT-21 21 positions
cleaning bottle size:50-250ml

PLYT-21 cleaning erlenmeyer flask,
volumetric flask with cross bottle holder.

Without three-petal flower basket bottle
holder.

PLYT-32 32 positions
cleaning bottle size:50-250ml

PLYT-32 cleaning Erlenmeyer flasks, volumetric flasks, and flasks.

With cross bottle holder and three-petal flower basket bottle holder.

PLYT-50 50 positions
cleaning bottle size:10-100ml

PLYT-50 cleaning Erlenmeyer flasks, volumetric flasks, and flasks.

With cross bottle holder and three-petal flower basket bottle holder.

PLYT-66 66 positions
cleaning bottle size:10-50ml

PLYT-66 cleaning Erlenmeyer flasks, volumetric flasks, and flasks.

With cross bottle holder and three-petal flower basket bottle holder.

PLYT-20 20 positions
cleaning bottle size:1000ml

PLYT-20 cleaning erlenmeyer flask, volumetric flask with cross bottle holder.

Each layer can put one cleaning basket with 20 bottles.

PLYT-25 25 positions
cleaning bottle size:500ml

PLYT-25 cleaning erlenmeyer flask, volumetric flask with cross bottle holder.

Each layer can put one cleaning basket with 25 bottles.

PLWT-21 21 positions
cleaning bottle size:50-250ml

PLWT-21 cleaning erlenmeyer flask, volumetric flask with cross bottle holder.

Without three-petal flower basket bottle holder.

PLWT-32 32 positions
cleaning bottle size:50-250ml

PLWT-32 cleaning erlenmeyer flask, volumetric flask with cross bottle holder.
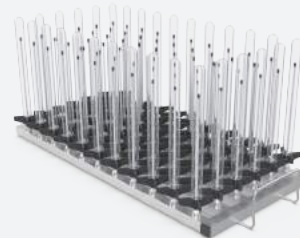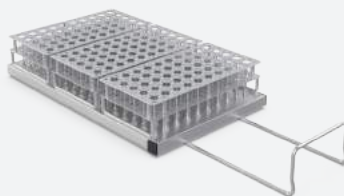
Without three-petal flower basket bottle holder.

PLWT-50 50 positions
cleaning bottle size:10-100ml

PLWT-50 cleaning erlenmeyer flask, volumetric flask with cross bottle holder.

Without three-petal flower basket bottle holder.

PLWT-66-1 66 positions
cleaning bottle size:0.1-50ml

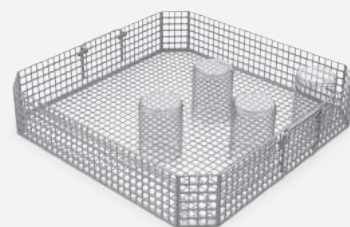PLWT-66-1 cleaning test tubes, centrifuge tubes.

PLWT-66-2 66 positions
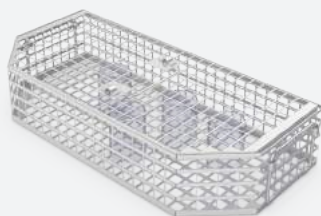cleaning bottle size:0.1-50ml

PLWT-66-2 cleaning pipettes.

PL-150 150 positions
cleaning bottle size:2ml

PL-150 cleaning injection bottles.

K-01 cleaning frame
cleaning bottle size:10-2000ml

K-01 cleaning jars, beakers, glass rods, bottle caps, etc

K-02 cleaning frame
cleaning bottle size:10-2000ml

K-02 cleaning jars, beakers, glass rods, bottle caps, etc

K-03 cleaning frame
cleaning bottle size:10-20ml

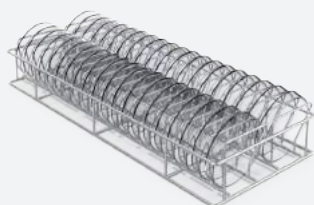K-03 cleaning test tubes,centrifuge tubes.

One layer can put 4 units of K-03.

K-04 cleaning frame
cleaning bottle size:10-20ml

K-04 cleaning test tubes,centrifuge tubes.

One layer can put 4 units of K-04.

K-30 30 position
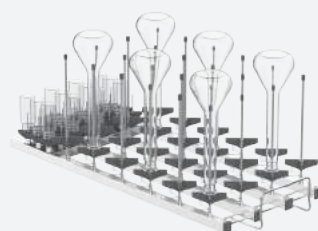cleaning bottle size:60-150mm petri dish

K-30 cleaning 30 petri dishes, 90mm.

Petri dishes with larger diameter can be customized with cleaning basket

MX-48-1 48 position
cleaning bottle size:0.1-100ml

MX-48-1 cleaning 24 pipettes and 24 volumetric flasks.

MX-48-2 48 position
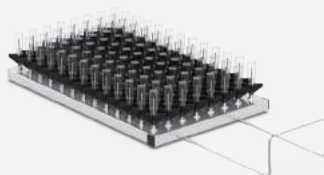cleaning bottle size:0.1-100ml

MX-48-2 cleaning 24 injection bottles and 24 volumetric flasks.

MX-74-1/2 74 position
cleaning bottle size:2-100ml

MX-74-1 cleaning 50 injection bottles and 24 volumetric flask.

MX-74-2 cleaning 50 petri dishs and 24 volumetric flasks.

PL-102-1/2/3 102 position

PL-102-1 cleaning injection bottles

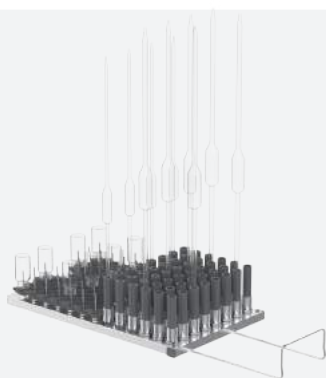PL-102-2 cleaning test tube,centrifuge tube

PL-102-3 cleaning petri dish, NMR tubes.

MX-102-1/2 102 position
cleaning bottle size:0.1-50ml

MX-102-1 cleaning 78 injection bottles and 24 pipettes.

MX-102-2 cleaning 78 injection bottles and 24 test tubes.

MX-102-3/4 102 position
cleaning bottle size:0.1-50ml

MX-102-3 cleaning 54 injection bottles and 48 pipettes.

MX-102-4 cleaning 54 injection bottles and 48 test tubes.

MX-102-5/6 102 position
cleaning bottle size:0.1-50ml

MX-102-5 cleaning 78 test tubes and 24 pipettes.

MX-102-6 cleaning 54 test tubes and 48 pipettes.

Acid steam cleaning system acid 3600

Application

Acid 3600 can remove inorganic element residues in digestion tanks, volumetric flasks, triangular flasks and other vessels, effectively reducing ion background and meeting the requirements of ICP-MS, automic absorption, atomic fluorescence, etc.

Washing process

Microcomputer chip control system
9 inch full colour touch screen.
20 standard program.
Support single step operate.
User can set,store the new program,the cleaning time, temperature, drain, pH valve can display on the screen.

〰 Injected sub-boiling acid steam cleaning(Figure 1)

The pure acid steam cleans the inner side of the utensels through the nozzle, effectively reducing the ion residue, and it is discharged after use, without reflux;
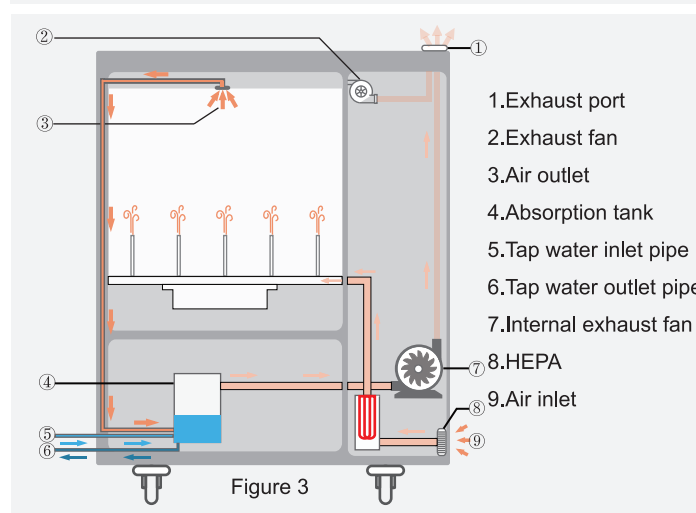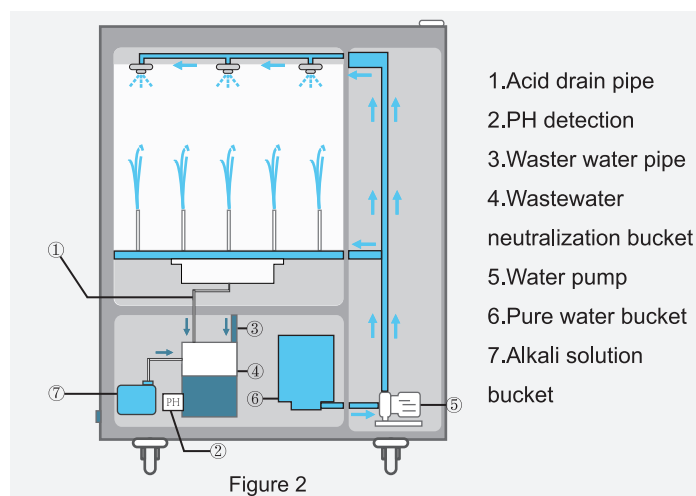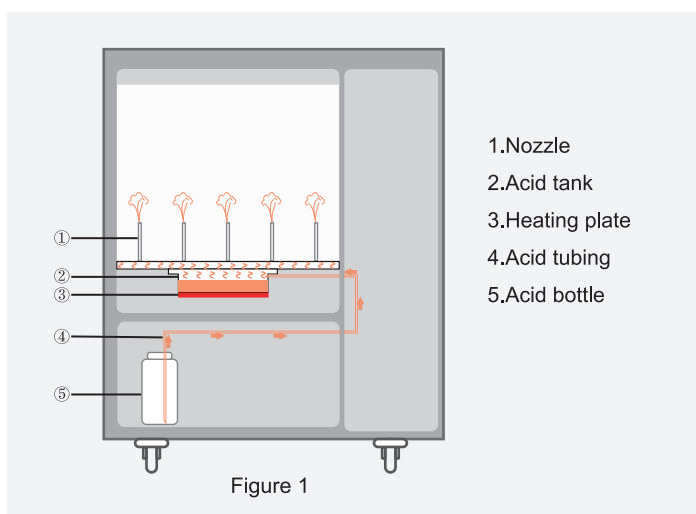
🌢🌢 Ultra-pure water flushing(Figure 2)

Water flow:240L/min.
Built-in pump add ultra-pure water automatically,7L pure water tank stores water.Water shortage reminder and automatic stop when filling."non-return" flushing to ensure there is no acid gas and acid residue in the washing chamber.

〰 Hot air drying(Figure 3)

The drying temperature is RT-120℃,drying time from 0-300min,and the flow rate is 168m3/h.The pipeline compressor blows the hot air after HEPA filtration into the utensils.

Figure 1

1.Nozzle
2.Acid tank
3.Heating plate
4.Acid tubing
5.Acid bottle

Figure 2

1.Acid drain pipe
2.PH detection
3.Waster water pipe
4.Wastewater neutralization bucket
5.Water pump
6.Pure water bucket
7.Alkali solution bucket

Figure 3

1.Exhaust port
2.Exhaust fan
3.Air outlet
4.Absorption tank
5.Tap water inlet pipe
6.Tap water outlet pipe
7.Internal exhaust fan
8.HEPA
9.Air inlet

Acid 3600

Acid 3600

Parameters	Acid 3600	Parameters	Acid 3600
Acid steam function	Yes	PH meter	Yes
Ultra-pure water rinsing	Yes	Nozzle height	79mm
Rinsing flow	120L/min	Acid bottle volume	1000ml
Waste acid neutralization	Yes	Permission management	Yes
Drying function	Yes	Self-defined program	20
Drying temperature	25-100°C	HEPA	H14
Drying time	0-300min	High temperature alarm	Yes
Drying speed	168m³/h	High acid temperature alarm	Yes
Cleaning nozzle	50	Power off memory	Yes
Cleaning chamber volume	87L	Acid exceeds limit	Yes
External diameter:W×D×H(mm)	682×663×1624	Cleaning chamber:W×D×H(mm)	480×355×510

Residue after cleaning can reach ppt or no detection level, we have strict cleaning data verification report.

Sample	Pb[He]	As[He]	Cd[He]	Cr[He]	Mg[He]	Cu[He]	Fe[He]
	[ug/l]	[ug/l]	[ug/l]	[ug/l]	[ug/l]	[ug/l]	[ug/l]
Sample1	0.00	0.01	0.01	0.00	0.00	0.01	0.00
Sample2	0.00	0.00	0.00	0.02	0.00	0.00	0.01
Sample3	0.01	0.00	0.01	0.01	0.02	0.01	0.02
Sample4	0.00	0.01	0.01	0.00	0.00	0.01	0.01
Sample5	0.01	0.00	0.00	0.00	0.01	0.00	0.00
Sample6	0.00	0.01	0.00	0.00	0.00	0.01	0.01

Parameters

Full process automatically

All-in-one machine, double-layer transparent visual door system.
Good sealing performance and user can observe the cleaning operation in the cleaning chamber in real time.

Avoid cross contamination

The jacketed injection cleaning system ensures that the acid and water are not mixed. The top of the cleaning chamber is equipped with a 360° all-round spray head;
After cleaning is completed, the acid liquid directly enters the waste liquid pool, and the acid liquid circulates in one direction to avoid cross-contamination.

Intelligent

The stepped heating system can not only heat up quickly but also prevent overcharging. The temperature rises rapidly in the first stage, rises to 90°C within 5 minutes.
The temperature rises steadily and slowly in the middle and late stages, shortening the cleaning time while ensuring the sub-boiling state of the acid.

Neutralize drain

The used acid or water does not flow back to the original acid or water bucket, stored in the waste water bucket, which can automatically detect its pH and automatically neutralize the waste acid to make it neutral.

Automatic acid addition and acid discharge

Automatic positive pressure acid adding system, automatic acid discharge after cleaning, visual acid liquid level, automatic reminder when liquid is lacking

Exhaust gas absorption

The built-in EP waste gas absorption system can instantly absorb a large amount of waste gas without putting it in a fume hood.

Double fan exhaust

The double fan exhaust system is automatically turned on when the machine is turned on, and the entire chamber of the machine are in a slightly negative pressure state, providing a strong guarantee for acid gas not to escape.

50 positions

Ultrapure water shower head

Save acid

Triple dynamic acid-saving pool, shallow position, high area heating, acid steaming speed is three times that of ordinary heating pool. One cleaning only requires 70ml of acid, and the acid gas can be steamed out in 5 minutes.

Preservative

The entire cleaning chamber is made of high-purity Teflon (PFA, PTFE) material to ensure excellent corrosion resistance; the electronic operating system is separated from the instrument, and the circuit boards are designed with anti-corrosion spraying to improve the stability of the system.

Laboratory glassware washer

Acid steam cleaning system

GMP washer

Animal cage and rack washer

EURPING

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