

***Manufacture lab washer 10+years  
Focus on cleaning***



## **Laboratory glassware washer LW190/LW190P**



# Let standard cleaning begin in your laboratory

Keep away from utensil residue

Eurping China 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.

Eurping is famous for R&D innovation and long-term good service for customers, our business philosophy is "Customer-centric, striver-oriented" .We understand the relevant requirements of USP laboratories, GMP laboratories, food testing and other fields ,we can provide laboratories with innovative, reliable products and services that comply with regulatory requirements, as well as technical support and verification.



Large cleaning chamber with two-layer cleaning basket. The two-layer cleaning basket can simultaneously clean 250ml volumetric flasks and 128 sets of 50ml of volumetric flasks or 40 sets of wide-mouth utensils, and clean 600 2ml chromatographic injection bottles at a time.

Convenient basket combination, it can put 4 modular baskets at a time, flexible combination to adapt to various utensils, volumetric flasks, automatic sample bottles, headspace bottles, pipettes, test tubes, Erlenmeyer flasks, round bottom flasks, Reagent bottles, measuring cylinders, etc.



### Instrument structure:

The shell material is 304 stainless steel and the cleaning chamber is 316L stainless steel. The volume of cleaning chamber is 317L and the cleaning chamber were formed directly without welding points.

### Control system:

Microcomputer chip control technology (non-PLC) with 7 inch full color OLED LCD touch screen, fingerprint identification system, three-level authority management, including 30 standard procedures and 120 self-defined procedures.

Cleaning program, cleaning time, temperature, pipeline pressure and other data can display on screen in real-time.

### Circulation system:

Variable frequency soft-start function control the circulation pump from 0-800L/min. Pipeline pressure monitor monitors the pressure of the main pipeline in real time.

### Safety protection system:

Electronic safety lock, EULA electric door opening and closing technology, the experimenter can set the door opening temperature limit.

Water heating over temperature protection, hot air heating over temperature protection, water pump over temperature protection, fan over temperature protection.

The instrument will recovery automatically after water cut and memory if the power cut off.

Multi-layer filtration system: prevent debris from entering the pipeline and causing blockage.

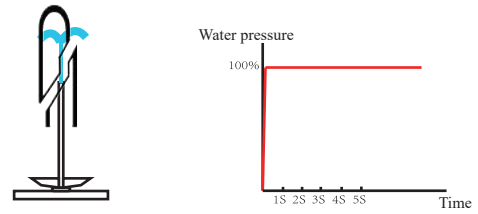


## Piping system:

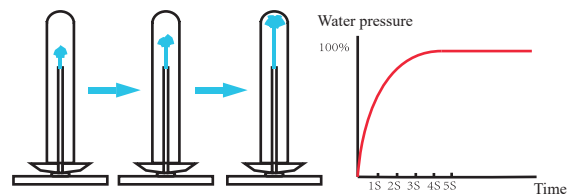
New back water supply method with two parallel water supply, Basket adopts FL-EXCH module design, every 1/2 module can be exchanged freely.

## Drying system:

High throughput pipeline compressor fan HEPA drying system, double spray heat exchange system, adopt EU-W water-saving condensation technology for steam condensation and cooling water automatic discharge.



Without variable frequency soft start



with variable frequency soft start

## Variable frequency soft start

## Technical parameters



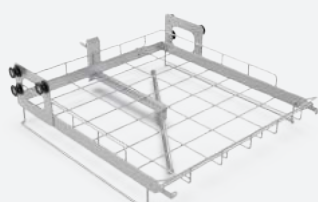
LW190/LW190P

Parameter	LW190	LW190P
Power	220V 5kW	380V 10kW
Capacity	185L	185L
Screen size	8.8 inch	8.8 inch
Electronic safety lock	Yes	Yes
Three-level authority	Yes	Yes
SD card store	No	Yes
Standard program	30	30
Self-defined program	120	120
Pump circulation	0-500L/min	0-500L/min
Drying method	Residual heat drying	Injection drying
Hot air circulation	No	150m <sup>3</sup> /h
Drying temperature	No	25 -120 °C
Drying time	0-300min	0-300min
External size(L*W*H)	670*691*940(mm)	670*691*940(mm)

## Cleaning basket



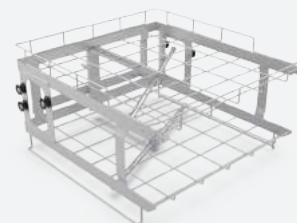
**SC-01 Upper/Middle cleaning chassis**  
without spray arm, place the  
PLYT-XX, PLWT-XX, PL-XX and MX-XX



**SC-02 Upper/Middle cleaning chassis**  
with spray arm, place the K-XX



**XC-03 Lower cleaning chassis**  
without spray arm, place the  
PLYT-XX, PLWT-XX, PL-XX and MX-XX



**SC-05 Upper/Middle cleaning chassis**  
with spray arm, place the K-30



**XC-06 Lower cleaning chassis**  
with spray arm, place the K-30



**SC-07 Upper/Middle cleaning chassis**  
with spray arm, place the K-01, K-02, K-03



**XC-08 Lower cleaning chassis**  
without spray arm, place the K-01, K-02, K-03



**PLYT-08 8positions**  
Bottle size: 250 ~ 2000ml  
Clean blue cap bottle, erlenmeyer flask,  
volumetric flask, triangular flask, etc.  
With three-petal flower holder and cross  
holder.



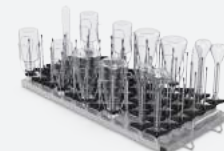
**PLYT-21 21positions**  
Bottle size: 50 ~ 250ml  
Clean blue cap bottle, erlenmeyer flask,  
volumetric flask, triangular flask, etc.  
With three-petal flower holder and cross  
holder.



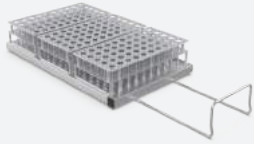
**PLYT-32 32positions**  
Bottle size: 50 ~ 250ml  
Clean erlenmeyer flask, volumetric flask,  
triangular flask, etc.  
With three-petal flower holder and cross  
holder.



**PLYT-50 50positions**  
Bottle size: 10 ~ 100ml  
Clean erlenmeyer flask, volumetric flask,  
triangular flask, etc.  
With three-petal flower holder and cross  
holder.



**PLYT-66 66positions**  
Bottle size: 10 ~ 50ml  
Clean erlenmeyer flask, volumetric flask,  
triangular flask, etc.  
With three-petal flower holder and cross  
holder.



**PL-150 150 positions**

Bottle size: 2ml  
Clean chromatographic injection bottle



**PLYT-20 20positions**

Bottle size: 1000ml  
Design according to 1000ml bottles, only one cleaning basket can be placed on each layer



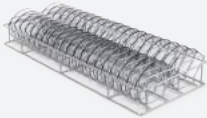
**PLYT-25 25positions**

Bottle size: 500ml  
Design according to 500ml bottles, only one cleaning basket can be placed on each layer



**K-02 1/2 cleaning frame module**

Bottle size: 10-2000ml  
Clean jars, glass rods, bottle caps, etc  
Two K-02 module form a layer of cleaning basket



**K-30 1/2 cleaning frame module**

Petri dish size: diameter 60-150mm  
Each module can clean 30 petri dishes  
Two K-30 module form a layer of cleaning basket



**PLWT-66-1 66positions**

Bottle size: 0.1-50ml  
PLWT-66-1: clean test tube, Centrifuge tube.  
PLWT-66-2: clean pipettes.



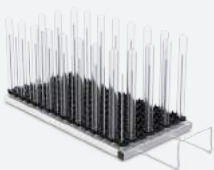
**K-03 1/4 Test tube module**

Test tube size: 10-20ml  
Clean test tube, Centrifuge tube, etc.  
Four K-03 module form a layer of cleaning basket



**K-04 1/4 Test tube module**

Test tube size: 10-20ml  
Clean test tube, Centrifuge tube, etc.  
Four K-04 module form a layer of cleaning basket



**PL-102-1 102positions**

PL-102-1: clean chromatographic injection bottle  
PL-102-2: clean test tube, Centrifuge tube  
PL-102-3: clean pipettes and graduated pipettes



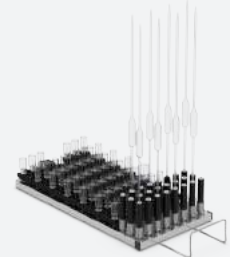
**MX-48-1 48positions**

MX-48-1: 24 pipettes and 24 volumetric flask of 100ml  
MX-48-2: 24 chromatographic injection bottle and 24 volumetric flask of 100ml



**MX-74-1 74positions**

MX-74-1: 50 chromatographic injection bottle and 24 volumetric flask of 100ml  
MX-74-2: 50 pipettes and 24 volumetric flask of 100ml



**MX-102-1/2/3/4/5/6 102positions**

MX-102-1/2: 78 chromatographic injection bottle and 24 pipettes/test tube  
MX-102-3/4: 54 chromatographic injection bottle and 48 pipettes/test tube  
MX-102-5: 78 test tube and 24 pipettes  
MX-102-6: 54 test tube and 48 pipettes



## Laboratory glassware washer

- Basket adopts FL-EXCH module design, every 1/2 module can be changed freely.
- Variable frequency soft start can prevent glassware from being damaged
- Pipeline pressure sensor monitors pressure of the main pipeline in real time
- The “black box” automatically records the operating status of each electrical component during the entire cleaning process.



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## Acid steam cleaning system

- Automatic cleaning, saving labor
- Avoid cross-contamination and replace acid tank soaking
- Cleaning time is shortened and digestion tanks can be easily transferred
- Full negative pressure exhaust to avoid acid gas leakage



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## GMP washer

- Fully hygienic design: fully compliant with FDA and BPE standards
- Surface polish less than 0.6μm
- 2% tilt angle for easy liquid discharge
- The pipeline complies with 2D standards



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## Animal cage washer and auxiliary equipment

- IVC-100: Animal cage washer
- IVC-500: Automatic drinking water bottle washing system
- IVC-600: Automatic bedding dump system
- IVC-700: Automatic drinking water bottle filling system
- IVC-800: Automatic bedding adding system



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