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BARRIER WASHER





COMPANY PROFILE



Kingstar series industrial washing extractors are developed and designed by CLM, a leading brand in the laundry industry. With over 20 years of experience in washing equipment technology, we are committed to advancing global industrial laundry standards and dedicated to building the best washer extractors in the world.

CLM is a manufacturing enterprise specializing in the R&D, production, and sales of industrial washing machines, commercial washing machine, tunnel washer systems, high-speed ironing lines, and intelligent hanging bag logistics systems. We also provide comprehensive planning and design solutions for smart laundry factories.

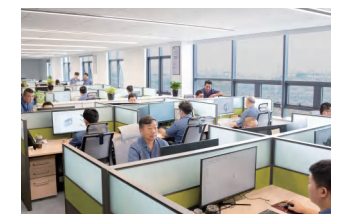
With over 20 years of development, CLM has become a key player in the field of industrial washing equipment manufacturing. Our products are exported to more than 90 countries and regions, including Europe, North America, Africa, and Southeast Asia.

KINGSTAR

20⁺
Laundry equipment
industry technology

80⁺
Industry-related
patents

90⁺
Sales regions



BARRIER WASHER

50kg

70kg

100kg



Product introduction

Designed to meet the stringent standards of cleanroom environments, this advanced washer-extractor features a dual-compartment isolation system that ensures complete separation of clean and contaminated zones. Engineered specifically for cleanroom laundries, it delivers superior cleanliness for anti-static garments, cleanroom gloves, and lint-free wipes. Beyond cleanroom applications, it also excels in handling high-contamination and high-pathogen laundry such as hospital bed linens, surgical gowns, and infectious department textiles, offering unparalleled hygiene and safety.

This makes it the ideal choice for microelectronics, semiconductors, optoelectronics, biotechnology, and pharmaceutical industries — and especially for medical institutions seeking a professional-grade cleanroom laundry solution.



Barrier washer

Advanced technology
highlights the difference





laundry
systems

Guarantee reliable
washing performance

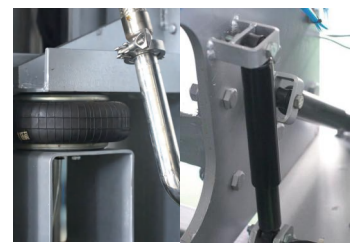


Technical Features



Shock Absorption Design

The machine adopts an underhung shock absorption structure. Equipped with German-imported air springs and hydraulic dampers, it operates with low vibration and low noise, making it suitable for cleanroom environments.



Detergent Dispensing Design

Utilizes peristaltic pumps to automatically dispense liquid detergents with high precision.



Safety Door Lock Design



The door is made of 304 stainless steel and equipped with a safety lock and interlock control system. This system provides reliable safety protection: the door cannot be opened while the machine is running, and the machine cannot start if the door is not properly closed. Additionally, when one side door is open, the other side remains locked to ensure isolation.



Stable, Efficient, and Long Service Life Design



The washing drum is horizontally mounted and supported by double-side bearings, ensuring smooth operation and high dewatering performance. The overall machine is designed for a long service life.





40 Wash Programs

Equipped with a full-color LCD touchscreen, the system features a menu-based interface and human-machine interaction mode with three-level user access. It supports up to 40 customizable wash programs. A programmable logic controller (PLC) is standard for pharmaceutical industry users.



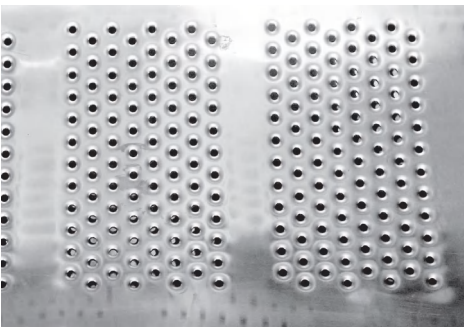
Dual-Door Design (Front and Rear)

The dual-door structure allows loading from the front and unloading from the rear. When installed through a partition wall, it effectively separates the washing area (soiled side) from the finishing area (clean side). Loading and maintenance are performed in the washing area, while unloading and packaging are done in the finishing area, effectively preventing cross-contamination.



304 Stainless Steel Construction

All components that come into contact with water—such as the inner drum, outer tub, outer door, inlet valve, drain valve, and heating elements—are made of high-quality 304 stainless steel. This provides excellent resistance to acids and alkalis, superior corrosion protection, and prevents metal rust.



Recessed Drum Design

The washing drum features a recessed-hole design that undergoes both manual grinding and electrolytic polishing, ensuring a smooth surface that won't snag fabrics. A unique anti-leak baffle structure effectively prevents small items (such as lint-free wipes) from escaping during operation.

Technical Parameters



Model	N2050	N2070	N2100
Water Consumption (L/cycle)	650	860	1150
Compressed Air Consumption (m³/h)	0.15	0.15	0.15
Compressed Air Pipe Diameter (mm)	Φ8	Φ8	Φ8
Compressed Air Pressure (MPa)	0.5	0.6	0.6
Steam Consumption (kg/h)	50	70	100
Water Inlet	DN25	DN40	DN40
Steam Inlet	DN25	DN25	DN25
Drain Outlet	DN63	DN100	DN100
Recommended Capacity (kg)	50	70	100
Power (kW)	5.5	7.5	11
Inner Drum Size (mm)	1064×570×506	1064×830×730	1220×860×1005
External Dimensions (mm)	1390×1500×2140	1610×1500×2140	1720×1550×2265
Total Machine Weight (kg)	2100	2650	3200

Healthcare Linen Processing

