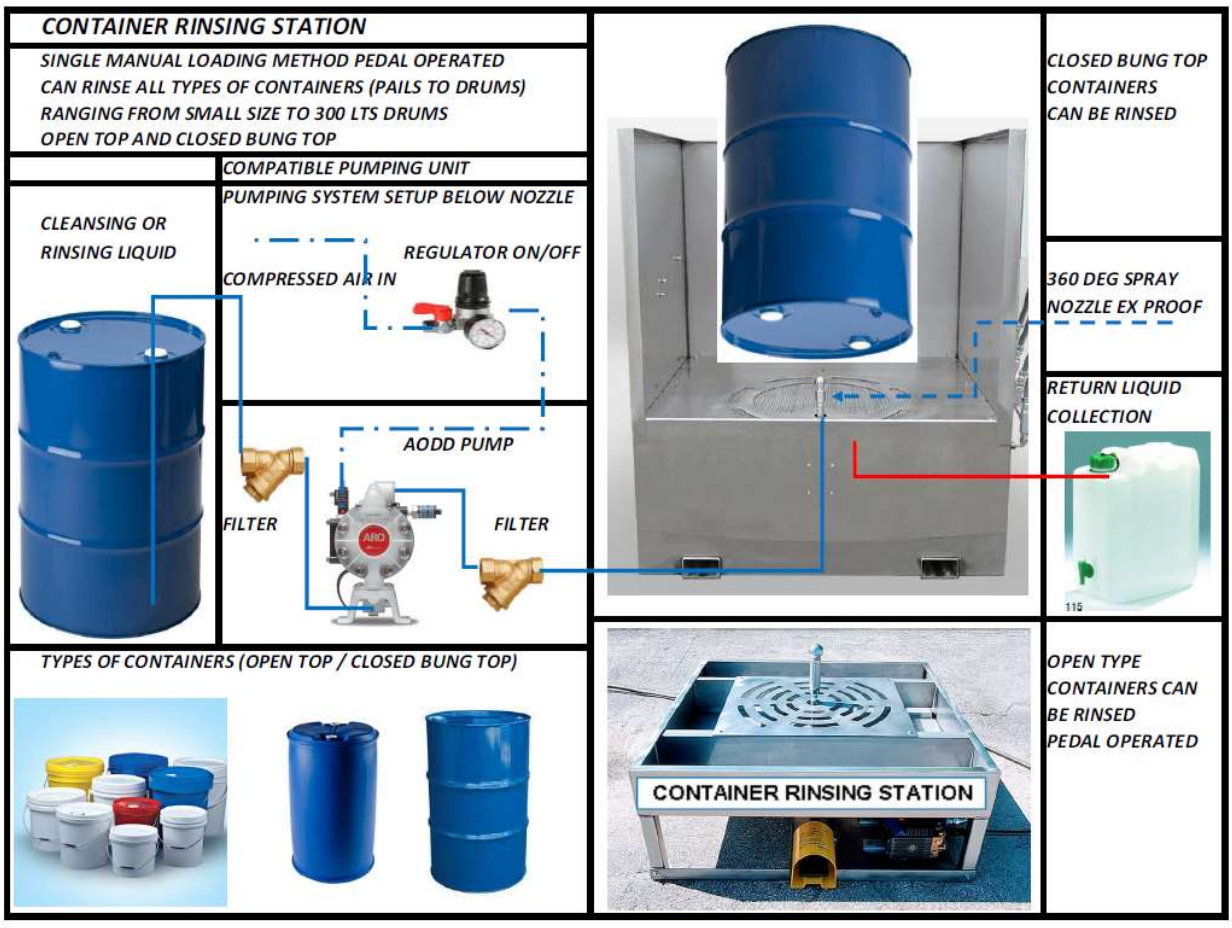
DRUM RINSING SYSTEMS

Plan B Engineering Solutions is one of the leaders in design, manufacturing and installation of Industrial Drum Processing Equipments such as: Drum Rinsing Module & IBC Tote Cleaning Systems. We provide the largest selection of Drum Reconditioning and Drum chemicals transfer systems. All of our systems are designed for continuous heavy duty services.

RINSING SOLUTIONS FOR OPEN CONTAINERS & CLOSED BUNG CONTAINERS

1. Semi Automatic Rinsing Station for all types of Containers from small to 300 liters metallic and non-metallic
2. Automated full line Drum / IBC Rinsing Stations with In and out feed Conveyors
3. IBC Tote Rinsing Stations / Full Automated Systems with In and out feed conveyors.

CONTAINER RINSING STATION CONCEPTUAL



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Why Container Rinsing Systems required?

To get consistent, fast, reliable container washing results. Plus, re-deploy labor to safer, more productive tasks.

With simple operation, consistent clean results, and predictable wash times, production schedules can rely on available clean containers like clockwork.

Employees who perform manual cleaning operations are subject to ongoing exposure to cleaning agents such as caustics, detergents or solvents. Our Systems create a safer environment with automatic, vented systems, and avoid costly workplace injury hazards.

DRUM RINSE SYSTEMS USES

QUALITY

Our Rinsing Systems are constructed with high-quality stainless steel. It's designed with longevity, efficiency, and simplicity in mind. The only requirement is power or air with source of water. In combination with the utility of our high-pressure rotary wash nozzle, our system is guaranteed to fully rinse / cleanse 360° of your container's surface area.

Our drum rinse systems use a high speed rotary nozzle for washing 100% the interior of drums and containers. The construction is heavy duty and includes an internal recirculation tank system. The wash stations have a control box containing a start, stop button and an emergency stop button.

OPERATOR SAFETY

The drum stations are protected by a safety system to prevent the operator from activating a station when a drum is removed prior to the rinse cycle being finished. Any system operated using foot valve or automated without operator direct contact.

REDUCED LABOR COSTS

Drum Washing Systems can achieve extremely high labor productivity per man hour through automation and using the latest technology in water based cleaning solvents. Therefore, fewer employees are necessary to clean the drums.

REPEATABLE RINSE QUALITY ACHEIVED

All Equipment Functions are PLC Controlled. This means that the standards to clean an IBC (Tote) are repeatable insuring the same quality standards desired are met each time. All machine functions are automatic.

EMPLOYEE INJURIES BE REDUCED

With automation, an employee is less likely to suffer injuries…pressing a "Start" button is less hazardous than using a power washer. Drum Washing Systems are much helpful in eliminating the slip and fall problems with wet floors and leaky hoses and therefore has the potential to reduce your insurance costs.

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CONTAINERS RINSING STATION

Model CRS-CAN-300

The container rinsing system model CRS-CAN-300 is designed to cleanse/rinse the interior of drums and pails sized up to 300 liters with any compatible cleaning liquids using water, detergent, solvent or hot water as per customer's process requirements.

This system is capable of process safe rinsing 360 degrees completely in 10 to 40 seconds.

This system has many configurations and optional rinsing method stations. Each rinse station has a station control box containing a start and stop button and an emergency stop button.

Each rinsing system may include an optional external recirculation tank with 250, 500 or 1000 liters capacity depending of the number of rinse station(s).

All types of Containers can be rinsed with one Rinse Process Station with

1) Cleaning Liquids like Solvents or Compatible Liquid Chemicals (Cleansing)
2) With Liquid to filled on the Container in Filling System (Rinsing)

CRS MODULER TYPE – FOR CLOSED BUNG CONTAINERS













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CRS – OPEN TYPE PEDAL OPERATED- FOR OPEN TYPE CONATAINERS











CRS MODEL WORKPLACE SETUP



CHEMICAL HANDLING TRANSFER DISPENSING SOLUTIONS | CHEMICAL DISPENSE MODULE | DRUMS RINSING MODULE
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RINSING NOZZLES





CRS MULTIPLES STAION OPTIONS (1, 2, 3 & 4 STATIONS)









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AUTOMATED DRUM RINSING MODULE

The Drum Rinsing Module Systems Model DRM Series is a conveyor/tunnel semi or automated system and capable of rinsing up to 100 drums per hour (DRM-100 Model) & 200 drums per hour (DRM-200 Model). The system uses rotating 360 degree spray nozzles that will rinse and clean all types of drums open top, closed bung type, metallic and plastic. The conveyor speed is adjustable for various process rinsing requirement conditions.

The Drum Rinsing Module DRM Series is engineered for continuous operation. This system is shipped completely pre-plumbed and pre-wired ready for simple connections to complete the rinsing system installation between modules. As the drums travel further on the conveyor, the drums pass through the multi rinse chambers and are processed insuring that 100% of the drum is rinsed.

Standard Features

- Rinses up to 200 & 300 liters drums (steel and plastic)
- Rinses interior of open top and closed bung drums
- Can use water, detergent or solvent any compatible rinsing liquid as requested by Customer
- General Construction Upper housing of the drum rinsing chambers is constructed of SS 304 / Compatible
- Fully adjustable conveyor speed
- Push Button On/Off Controls
- Pressure Pump
- Return Pump
- Electrical control box
- Safety features to comply as per SOP

Optional Features

- Explosion Proof System: If System Installed in hazardous area
- Galvanized Finish: Protective coating of zinc to provide corrosion resistance
- External recirculation tank up to 1000 liters capacity
- Electric immersion heaters for the recirculation tank to provide hot water.
- Special cover to control fumes and/or retain heat if water is heated.
- Oil/Solvent Recovery System for the 5KL tank recirculation system.

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Automated Drum Rinsing Module Options

The Drum Rinsing Module Systems Model DRM Series is a conveyor/tunnel system that is automated and capable of rinsing up to 100 drums per hour (DRM-100 Model) & 200 drums per hour (DRM-200 Model).

DRM-100 Model – 100 drums per hour



DRM-200 Model – 200 drums per hour



SAME TYPE TUNNEL SYSTEM CAN BE GIVEN FOR PAILS, DRUMS AND IBC'S FOR CONTINOUS BULK RINSING REQUIREMENTS

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AUTOMATED DRUM RINSING MODULE CONCEPTUAL PICTURES















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IBC TOTE RINSING STATION

The IBC Tote Rinse model TRS is designed to rinse the interior of totes and containers. We use 360 degree high speed rotary spray jet nozzle to clean inner area of IBC. All Equipment Functions are PLC Controlled. This means that the standards to clean an IBC (Tote) are repeatable insuring the same quality standards desired are met each time. All machine functions are automatic.

Rinsing Spray Nozzle with pneumatic set up fed into the top opening of IBS and positioned. Then Rinsing operation starts as per set timing requested. Spray jet cleans inner area 360 degrees and ensuring full rinsing and ready for next stage filling process. Rinsed liquid drained out through the bottom valves and system repeats the process.

Standard Features

- Rinses totes IBC of 1000 liters capacity
- Can use water, detergent or solvent any compatible liquid
- High impact rinse rotating nozzle
- Tote wash cap & nozzle assembly with pressure hose
- Steel galvanized and stainless steel construction
- Tank recirculation system with large capacity
- Tank construction: carbon steel or stainless steel
- Fully adjustable wash timer
- Push button On/Off controls
- Pressure pump
- Electrical control box
- Safety features to comply with SOP

Optional Features

- Explosion Proof System: If System installed in hazardous area
- Immersion heaters for heating the cleaning solution (inside of the Tank Recirculation System)
- Oil / Solvent Recovery System (inside of the Tank Recirculation System)
- Custom Configurations

Two (2) IBC's/Totes can be rinsed at one time with an estimate of 15 to 20 IBC’s/Totes per hour.

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SEMI AUTOMATIC IBC RINSING OPTION





NOTE: All Pictures addtached are for Conceptual and Understanding Purpose Only. Actual Product may vary upon the requirement and MOC options from the Customer.

For Inquiries please contact…

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