



APPLICATION

The Cage and Rack Washer is a heavy-duty, large-capacity, high-impingement hydro-spray washer designed for thorough, efficient cleaning of cages, racks, debris pans, and miscellaneous items used to care laboratory animals. The unit is designed to be either Floor or Pit mounting for easy loading and unloading.

SIZE - INCHES

Chamber - 46" W x 85" H x 141" D

Overall Unit* - 84" W x 94" H* x 149" D

***Overall unit size may vary with the options selected.
The floor-mounted unit is 104"H.**

STANDARD FEATURES

KNOCK-DOWN MODULAR CONSTRUCTION

The washer is designed for complete disassembly into sections small enough to fit most elevators and enter existing facilities. Uncrated sections can pass through a **3'0" x 6'8"** standard doorway.

OSCILLATING SPRAY JET SYSTEM

The washer is provided with an oscillating jet-spray system for all treatment solutions. The system consists of high-impingement machined jets mounted on spray trees suspended from an oscillating carriage traveling on self-lubricating machined wheels. The jets are positioned to reach all cart and cage surfaces, including the underside of shelves and base.

The system is driven with a bi-directional pneumatic cylinder in conjunction with the treatment schedule. The unit has a safety system to prevent the oscillating header from damaging items being washed. Interference of greater than 15 seconds will be indicated visually and audibly to the operator.

INSULATED CONSTRUCTION

The washer cabinet is insulated to minimize noise, hot outer surfaces, and heat rejection.

INSULATED WASHER DOOR & WINDOW CONSTRUCTION

Washer door(s) are provided with insulated double-pane, 1/3 viewing windows, with a choice of [OPTIONAL WINDOWS](#).

PERSONNEL SAFETY FEATURES

Opening the door (either load-end or unload-end if pass-through unit) automatically stops the operation of the washer. The door(s) must be closed, the alarm acknowledged, and the "Cycle Start" button depressed to continue operating from the beginning of the interrupted phase.

Two (2) red safety cables are installed inside the wash chamber (one on each side). If either cable is pulled, all operation of the washer is immediately stopped. The door(s) (load-end or unload-end if pass-through unit) are designed with explosion-release closures, that readily open when pushed from inside the cabinet.

An Emergency Stop (ES) button is provided on the load-end control panel (and unload-end if pass-through unit). If the operations of the wash cycle are interrupted by pressing the (ES) Button, all operations stop and the operator must restart the system.

MULTI-CYCLE COLOR/GRAPHIC PLC CONTROL SYSTEM

A named brand (GE or Allen Bradley) solid-state PLC control system monitors and automatically controls all process operations and functions. Any of the twelve cycles may be operator named and configured with specific treatment phases to permit various loads and processing requirements. Individual cycle phase times and temperatures and other key process parameters are programmable. Each cycle may be locked by supervision to ensure process integrity.

A supervisory access code controls cycle programming. Each cycle program may be reviewed and printed on demand with the optional Strip-Chart Printer.

AUTOMATIC TEN-PHASE TREATMENT CYCLE

The standard treatment cycle may consist of any of the following phases: Pre-wash, Agent Wash 1, Agent Flushing Rinse, Agent Wash 2, Acid Neutralizer, First Rinse, Second Rinse, Final Rinse, and Vapor Removal. Any or all cycle phases may be selected or deselected by the user. All Agent Wash (Alkaline or Acid) and Rinse treatments are recirculated under pump pressure. The cycle, once activated, is completely automatic.

DATA COMPUTER PORT

An Ethernet port allows the ability to download cycle data to a remote computer terminal. Custom software may be required to accommodate specific applications.

FACTORY SOFTWARE RESTORATION

The unit shall be provided with backup software/program stored on a flash drive.

AUTOMATIC SELF-CLEANING DEBRIS SCREEN

The treatment pump(s) are provided with high-capacity self-cleaning debris screen which automatically flush debris to the building drain when the unit is drained. To help prevent jet plugging, the screen is provided with holes that are considerably smaller than the size of the machined jet orifices. The screen is inter-piped and inter-wired with the control system to filter all solutions.

TEMPERATURE GUARANTEE

The operator may select to guarantee the temperatures for any of the recirculated phases of the cycle. If the temperature guarantee is selected, the phase time does not begin to count down until the recirculated water temperature reaches the set point. If the recirculated temperature drops below the set-point during the phase, the timer shall pause until the set temperature is again met. The phase-timer continues from where it stopped to guarantee the proper temperature for the entire phase.

INCOMING UTILITY GAUGES

The incoming steam, hot, and cold water supplies are provided with strainers and pressure gauges. Hot and cold water supplies are also provided with temperature gauges.

STAINLESS STEEL RECIRCULATING COMPONENTS AND PIPING

All piping and components, including valves, pumps, and piping that come in contact with the recirculated wash solutions, shall be provided in stainless steel.

UL – INSPECTED CONTROL SYSTEM

The main control panel is inspected and labeled in accordance to the UL 508A standards.

OPERATION

The operator places the items to be cleaned in the wash chamber, closes the door, selects the proper cycle, and presses the “Cycle Start” button. The washer proceeds through the treatment schedule and automatically shuts off after the cycle. The operator then opens door and removes the cleaned items.

TREATMENT SCHEDULE – (May be programmed with any or all phases below) PRE-WASH

Water remaining in the chamber sump from the final rinse of the previous cycle is recirculated through the jet system under pump pressure and pumped to drain upon completion. Phase is adjustable from 0 – 9999 seconds in 1-second intervals and 120°F - 190°F in 1° interval.

ALKALINE WASH

Hot water from the house supply or detergent solution from the (OPTIONAL) wash solution reservoir fills the sump and is pumped through the jet system. As required, an alkaline detergent is added during recirculation, using either the optional *LYNX* or customer-supplied detergent injection pumps. At the end of the treatment, the detergent solution is either returned to the (OPTIONAL) solution reservoir or pumped to drain at the operator’s discretion. Phase is adjustable from 0 – 9999 seconds in 1-second intervals and 60°F - 200°F in 1° intervals (May be displayed in Celsius).

DETERGENT FLUSHING RINSE

Hot water from house supply fills the chamber sump and is recirculated through the jet system under pump pressure to remove residual detergent. Recirculated water is pumped to drain on completion of treatment.

ACID WASH

Hot water from the house supply or Acid solution from the (OPTIONAL) acid solution reservoir fills the sump and is pumped through the jet system. As required, an acid detergent is added during recirculation using either the optional *LYNX*- or customer-supplied detergent injection pumps. At the end of the treatment, the acid solution is either returned to the (OPTIONAL) solution reservoir or pumped to drain at the discretion of the operator. Phase is adjustable from 0 – 9999 seconds in 1-second intervals and 60°F - 200°F in 1° interval (May be displayed in Celsius).

NEUTRALIZATION

A neutralization phase may be programmed to add a neutralizing agent to adjust the pH of either the acid or alkaline solution before discharging to the drain. The neutralizer is injected for a select time, and then is recirculated to mix with the entire solution completely. Upon completion, the neutral pH solution is sent to drain.

FIRST RINSE

Hot water fills the sump and is recirculated through the jet system under pump pressure. Recirculated water is pumped to drain or may be retained in the sump to be used as the pre-wash water for the next cycle (if the last phase of the cycle). Phase is adjustable from 0 – 9999 seconds in 1-second intervals and 60°F - 200°F in 1° interval (May be displayed in Celsius).

SECOND RINSE

Same as the first rinse.

THIRD or FINAL RINSE

Same as the first rinse. With the purchase of the NON-RECIRCULATED FINAL RINSE OPTION, the operator has the option to have the load sprayed with fresh house water through a separate and dedicated spray system saving both water and time. Water may be retained in the sump to be used as the pre-wash in a subsequent wash load. The phase is adjustable from 0 – 999 seconds in 1-second intervals. (Typically 15-second duration).

EXHAUST

The unit stands idle for a sufficient time to remove the residual vapors.

CONSTRUCTION

The base, wash chamber and chamber sump are of stainless steel and smooth construction, without crevices and ledges for the potential build-up of debris and contamination. The base and chamber sump are of one-piece welded construction, with the base containing integral door gutters and floor grating supports.

The chamber door(s) are of double wall construction, insulated, and equipped with explosion-release closures, heavy-duty hinges, and a large-view tempered double-pane glass observation window.

The washer cabinet is entirely insulated and covered by protective stainless steel panels.

The wash chamber floor shall consist of smooth heavy-duty stainless-steel flooring covering the entire interior.

The smooth flooring promotes both ease and quiet loading of racks. Flooring shall be provided in sections for ease of removal for cleaning or maintenance.

The chamber sump has a level-control, automatic water fill port, chemical injection ports, and a stainless-steel steam coil heating the recirculated treatment solutions. The control system displays and monitors recirculated solution temperatures. After each phase, the sump shall be drained, preventing cross-contamination between treatment phases and cycles.

All recirculated treatments are under pump pressure of a 15-Hp horizontal pump. The pump system is equipped with a solid-state pressure sensor.

The stainless-steel steam coil heating systems in the chamber sump is complete with condensate return, vacuum breakers, and steam traps.

The steam coil is designed to ASME Section VIII, Div. 1, Unfired Pressurized Vessel Code, and is easily removable for cleaning or maintenance.

The washer is equipped with a transformer for the control circuit; integral Type-2 coordinated protective magnetic starters requiring no upstream fuses for overload protection of all motors, and all other electrical components required for the operation.

Exterior mounted LED lighting is provided to illuminate the wash chamber.

The washer is equipped with pneumatically actuated ball valves to control the pump output to the jet system, drain or detergent solution return systems.

The washer is inter-piped and inter-wired, so only one connection is required for each service or utility.

The washer is supplied with four (4) threaded detergent injection ports and electrical connections for the installation of automatic detergent injection pumps. The washer sump is also equipped with one (1) threaded half-coupling for connecting external devices.

The program is in Military time and Fahrenheit or Celsius temperature. Times and temperatures are expressed in seconds and full-degree increments, respectively. An internal battery backs up all cycle memory for up to ten years.


A highly visible color touchscreen displays cycle program data on demand and real-time in-process cycle performance. All cycle deviations are indicated with both visual and audible alarms that must be acknowledged by the operator.

The washer is designed to meet specifications by placing all serviceable components on the right or left side of the washer, as viewed from the load end.

The washer is provided with one (1) additional dry electrical contact for control of external damper(s) installed in the facility HVAC system (by the customer).

DOOR CONFIGURATION – DOOR SWING (HINGE SIDE):

VOLTAGE (select one):


 Single Door - Right Hand
 7936 Forest City Road . Orlando, FL 32810 | lifescienceteam@spire-is.com | spire-is.com
 Single Door - Left Hand
 The LYNX brand of washing equipment is manufactured by Spire Integrated Solutions, MADE IN USA

Pass-Through, Load (Right), Unload (Left)

208 Vac, 3-Phase 60 Hz, 3 Phases Only

230 Vac, 3-Phase 60 Hz

Pass Through, Load (Right), Unload (Right)

480 Vac, 3-Phase 60 Hz

575 Vac, 3-Phase 60 Hz

Pass-Through, Load (Left), Unload (Left)

Pass-Through, Load (Left), Unload (Right)

MOUNTING CONFIGURATION (select one):

Floor Mounted, Right-Hand Service Access

Floor Mounted, Left-Hand Service Access

Pit Mounted, Right-Hand Service Access

Pit Mounted, Left-Hand Service Access

OPTIONS

"REUSABLE - THROWAWAY" ALKALINE DETERGENT SYSTEM

The washer is provided with a wash solution side tank with a minimum 2x sump capacity to allow the reuse of the alkaline detergent solution. The system can automatically return the alkaline detergent solution to the side tank or pumping to drain based on several cycles. The tank is equipped with an automatic water fill, level control, and overflow piping.

Non-Heated

Heated

The optional heated tank has a separate heating coil to maintain the detergent water at a specified temperature. With this feature, the side tank has an additional stainless steel steam coil to heat and maintain the wash solution temperature. The PLC control system automatically controls the tank solution temperature.

DESCALING SYSTEM - ALKALINE TANK ONLY

This system operates in conjunction with the Reusable-Throwaway alkaline detergent system. The system provides an automatic operation to drain the tank, spray the bottom and sides of the tank to flush loose debris. The tank is then refilled with fresh hot tap water and acid is added via customer-supplied or "OPTIONAL" LYNX-supplied dispenser. The tank is stirred and agitated to help dissolve and break up scale. The tank drains, and the interior and bottom are rinsed once again.

"REUSABLE - THROWAWAY" ACID DETERGENT SYSTEM

The washer is provided with a wash solution side tank with a minimum 2x sump capacity to allow the reuse of the acid solution. The system has the capability of automatically returning the acid solution to the side tank or pumping to drain based on several cycles. The tank has an automatic water fill, level control, and overflow piping. The washer width is increased by 14" for each additional tank selected.

Non-Heated

Heated

The optional heated tank has a separate heating coil to maintain the detergent water at a specified temperature. With this feature, the side tank has an additional stainless steel steam coil to heat and maintain the wash solution temperature. The PLC control system automatically controls the tank solution temperature.

NON-RECIRCULATED FINAL RINSE

The final rinse treatment consists of hot water from house supply sprayed through a separate set of jets. The water shall not be recirculated.

HOUSE HOT WATER HEAT EXCHANGER

For facilities with low-temperature hot water, the washer is equipped with an in-line heat exchanger to raise the "house hot water" supply temperature by approximately 60° to 80°F. The internal sump coil of the washer heats the recirculated water to set the temperature as needed. The heat exchanger is inter-piped and inter-wired for automatic operation.

AUTOMATIC WATERING RACK FLUSH SYSTEM

The washer can flush two (2) automatic watering racks with fresh house cold water during the final rinse phase. The system is supplied with two stainless steel hoses with quick-disconnect hose connections and a pressure-reducing station for the house water line.

AUTOMATIC DAMPER

The washer is provided with an automatically actuated damper mounted in the exhaust line and coordinated with the automatic cycle. The damper is fully open during the exhaust phase and closed during the washer operation. The damper is designed for vertical connection to the exhaust vent system.

90-DEGREE AUTOMATIC DAMPER

The washer is provided with an automatically actuated damper mounted in the exhaust line and coordinated with the automatic cycle. The damper is fully open during the exhaust phase and closed during washing. The damper is designed with 90° angle for connection to horizontal exhaust vent systems.

EXHAUST FAN

The washer has an in-line stainless steel exhaust fan inter-wired with the PLC control system to exhaust residual vapors from within the wash chamber. Fan is supplied complete with a three-phase, 60 Hz motor and an integral Type-2 coordinated protective magnetic starter. The fan is designed to push exhaust a short distance at approximately ½" static pressure. The fan is provided with remote-mounted grease fittings for convenient access.

"SMART" COOL-DOWN SYSTEM

The washer is provided with Eco-Friendly air-cooled effluent cool-down system. Cold-conditioned air is pulled through the chamber to cool effluent rapidly without cold water. The effluent is cooled to 140 degrees or below before discharging to the drain. The system is designed not to add additional time to the overall cycle.

DRAIN DISCHARGE COOL-DOWN SYSTEM WITH COLD WATER INJECTION

The washer is provided with a cold-water inlet valve, integral with the drain line, to add cold water during draining for assistance in reducing the effluent temperature. A temperature gauge is included on the cold-water inlet piping. A cold-water connection is required when this option is selected.

DRAIN DISCHARGE COOL-DOWN SYSTEM WITH SURGE TANK

The washer is provided with a cool-down tank, integrally mounted to side of washer, to accept all pumped drain discharges. A cold water valve is energized each time effluent is pumped to the tank. The hot effluent is cooled as it is mixed with cold water and gravity-drained.

Washer width is increased by 14" and a cold-water connection is required when this option is selected.

DRAIN DISCHARGE COOL-DOWN SYSTEM WITH SURGE TANK AND TEMPERATURE GUARANTEE

The washer is provided with a cool-down tank, integrally mounted to the side of the washer, to accept all pumped drain discharges. By controlling the mixing of cold water, all discharges are cooled to below the customer-programmed set-point (generally 140°F) before gravity-draining to building drain system.

The system is controlled through an automatically actuated ball valve and temperature probe, and does not drain unless the effluent has been cooled to or below the set point temperature.

Washer width is increased by 14" and a cold-water connection is required with this option.

PASS-THROUGH DOOR INTERLOCK SYSTEM

System prevents both load-end and unload-end doors from being opened at the same time, eliminating risk of cross-contamination. When one door is opened, the opposite door is locked. When both doors are shut, both doors are in an unlocked mode allowing either to be readily opened if needed. If power is lost, both doors will fail in the open position.

AIR COMPRESSOR

The washer is provided with an air compressor inter-piped with an automatic control system to supply the air demand required by the washer. The compressor will be supplied with a regulator, filter, holding tank, and an automatic drain valve to eliminate condensate. A separate 120V, 20A electrical supply is required for this option.

STAINLESS STEEL SERVICE ACCESS PANELS

The washer is provided with a set of stainless steel enclosure panels with supports to enclose the service-component side of the washer fully. Panels are removable for easy access.

SPLIT BASE FOR SPECIAL ENTRY INTO BUILDING

Base of Rack Washer is shipped in 2 or more sections and welded in place on site to provide a water tight system. Split base is for egress into limited elevator sizes, or through tight hallways.

INCLINED FLOOR GRATING

Floor grating sections are fixed at a pitch of 1" at unload-end to help drain flat solid surfaces of certain cages, pans and racks that drain poorly.

AUTOMATIC INCLINED FLOOR GRATING

During the wash cycle, the floor grating sections shall automatically raise to a pitch of 1" side to side to help drain flat solid surfaces of certain cages, pans, and racks that drain poorly.

FEEDER BOTTLE WASHING SYSTEM

The washer is equipped with a solution coupling, capable of diverting all recirculated wash and rinse solutions through a bottle-washing cart. System is inter-piped and inter-wired for automatic operation. A Bottle-Washing Cart with a 4- or 6-basket capacity is required for use with this option.

PAN WASHING

The washer is provided with a built-in pan rack on one (1) side of the washer chamber and additional jets mounted on the spray trees spraying outward at the pans for simultaneous washing of debris pans, cage floors while washing cages in the center chamber.

The washer and pit (if applicable) are 8" wider when this option is selected.

LYNX OPTI-WASH SYSTEM

The washer is supplied with a separate non-recirculated rinse header, and all components and programming allowing the operator to choose between non-recirculated or recirculated rinses for any phase of their cycle. Utilizing the non-recirculated rinse between phases minimizes the cycle time and overall utility consumption. The OPTI-Wash™ system enables the operator to run fast and highly efficient, low-water cleaning and disinfecting cycle.

A typical rodent cycle time is estimated at less than 10 minutes without disinfections and less than 15 minutes with disinfection. No side tanks are required with this option.

LYNX OPTI-WASH -II SYSTEM

The washer is supplied with separate heated fresh water and detergent water, re-useable throw-away side tanks, a non-recirculated rinse header, and all components and programming allowing the operator to choose between non-recirculated or recirculated rinses for any phase of their cycle.

By utilizing the re-useable throw-away side tanks and the non-recirculated rinse between phases, the cycle time and overall utility consumptions are minimized. The OPTI-WASH-II™ system enables the operator to run the most efficient and quickest cleaning cycles. A typical rodent cycle time is estimated at less than 8 minutes without disinfections and less than 12 minutes with disinfection.

FLOOR SPRAY HEADER

A stationary spray header is mounted in the floor of the unit to add additional treatment spray coverage to the underside of the load.

SEISMIC TIE-DOWN

Washer is designed to comply with Seismic Zone 3 and 4 requirements.

STRIP-CHART PRINTER

A 40-column impact printer with paper take-up is provided to record all cycle program parameters and process performance data. Each program time/temperature profile may be printed as required.

REMOTE-MOUNTED CONTROL COLUMN

The washer is provided with added wire harness length to remote mount the electrical box up to 20 feet from the unit. Field connections for remote mounting of the control column and brackets are provided with this option. An appropriate conduit chase for the wire harness is to be provided by the customer.

INTEGRAL DATA COLLECTION SYSTEM

In lieu of, or in addition to an integral strip chart printer, the Data Collection System is provided to track, record, and store performance data as it is created during the run process of the washer. This data can be downloaded for printing or future reference and compliance purposes. Data such as date, time, cycle parameters, phase times and temperatures, alarms and other machine functions are captured and logged. Several options are available for storage:

Thumb drive Recording System: All data is recorded onto a removable USB thumbdrive in CSV format.

Plug & Play - custom LYNX data logging program downloaded onto a LYNX provided dedicated laptop. Customer shall take ownership of laptop and connectivity, network internet for data retrieval.

Software Package on to Customer's network: Custom LYNX data logging program downloading to be coordinated with customer's IT department onto customer's network. LYNX to provide program and technical assistance for the upload and coordination for the system to accept data from the washer. Customer shall coordinate connectivity, network for data retrieval.

CSA - INSPECTED CONTROL SYSTEM

The main control panel shall be inspected and labeled in accordance with CSA Standards.

THROWAWAY ALKALINE DETERGENT INJECTION SYSTEM

The washer is equipped with a liquid detergent injection pump, detergent pick-up tube, and 50 feet of tubing for timed direct injection of alkaline detergent into the chamber sump during the alkaline wash phase.

THROWAWAY ACID DETERGENT INJECTION SYSTEM

The washer is equipped with a liquid detergent injection pump, detergent pick-up tube, and 50 feet of tubing for timed direct injection of acid detergent into the chamber sump during acid wash phase.

"REUSABLE-THROWAWAY" ACID DETERGENT INJECTION SYSTEM

The washer is equipped with a liquid detergent injection pump, detergent pick-up tube, 50 feet of tubing, conductivity controller and a conductivity probe. The unit automatically monitors water/chemical conductivity and directly injects acid detergent into the chamber sump during the acid wash phase.

AUTOMATIC ALKALINE NEUTRALIZATION INJECTION SYSTEM

The washer is equipped with a liquid detergent injection pump, detergent pick-up tube, and 50 feet of tubing for timed direct injection of neutralizer into the chamber sump after an alkaline wash phase to neutralize the alkaline wash solution.

AUTOMATIC ACID NEUTRALIZATION INJECTION SYSTEM

The washer is equipped with a liquid detergent injection pump, detergent pick-up tube, and 50 feet of tubing for timed direct injection of neutralizer into the chamber sump after an acid wash phase to neutralize the acid wash solution.

pH NEUTRALIZATION MONITORING SYSTEM

The washer is equipped with control hardware and pH probe to monitor and control the pH level of drain discharge. Each time the washer attempts to drain, the pH level is checked. If the pH level is within a pre-set range, the washer will drain. If not, the proper neutralizing agent is injected, and the solution recirculated and tested again. This process is repeated three times until all parameters are met. If after the third test, the parameters are not met, an alarm will sound. System includes all controls and is inter-piped and inter-wired for automatic operation. Chemical pumps are available, but are not include with system.

ACCESSORIES

FLOOR-MOUNTED RAMPS

Floor-mounted units are provided with a stainless steel ramp with non-skid surface for each doorway of the washer. Ramp(s) cover the full door-width and extend out 5'.

BARRIER WALL FLANGE ASSEMBLY

The washer is provided with a stainless-steel trim flange to enclose the opening between one end of the washer and the masonry/ CMU wall opening.

Recessed one (1) wall

Recessed two (2) wall

MODULAR WALL

A stainless-steel modular wall assembly is designed and manufactured to create a wall enclosure or close off an open wall area. All materials and fasteners are of stainless steel construction.

Linear Feet

Linear Feet (Insulated)

30" Access Door

30" Insulated Access Door

BOTTLE-WASHING CART

A stainless-steel bottle-washing cart is designed to couple with the feeder bottle washing system. Load capacity:

Four (4) baskets

Six (6) baskets

UNIVERSAL CAGE AND PAN WASH RACK

The Universal Wash Rack is a heavy-duty stainless-steel rack designed to hold rodent cages and/or debris pans for thorough, efficient cleaning. The rack holds rodent cages from 5" to 8" in height with three (3) rows on each side of the rack, or debris pans up to 2" in height with two (2) rows on each side of the rack. Length and width of rodent cages and pans may vary. The unit is provided standard with two (2) pair cage wash racks and one (1) pair pan wash rack.

CAGE WASH RACK

The Cage Wash Rack is a heavy-duty stainless-steel rack designed for thorough, efficient cleaning of various sizes of rodent cages and lids. The rack holds rodent cages from ½" to 8" in depth. The unit is provided standard with four (4) rows on each side of the rack.

To maximize the washing capabilities of this wash rack, there is an option for a fifth (5) tier. Cages are securely supported in place by using an adjustable retainer bar. The rack can accommodate up to 140 standard mouse boxes or 100 standard rat boxes.

WINDOW OPTION - 1/3RD SIZE STANDARD

Full Glass

16x16

MATERIALS OF CONSTRUCTION

Standard Items

1. Base & Chamber Sump
2. Wash Solution Reservoir(s)
3. Door Panels
4. Side and Top Panels
5. Recirculation Valves and Components
6. Internal Water and Steam Piping
7. Drain Piping
8. Drain Valves and Components
9. Steam Piping – External
10. Water Piping
11. Spray Jets
12. Steam Coils
13. Treatment Pump

Materials

- 12 Ga. 304 S/S
- 12 Ga. 304 S/S
- 16 Ga. 304 S/S
- 14 Ga. 304 S/S
- 304 S/S
- 304 S/S
- 304 S/S
- 304 S/S
- Schedule 80, Black Iron
- 304 S/S
- 304 S/S
- 304 S/S
- 316 S/S

Optional Items

14. Barrier Flange(s) 20 Ga. 304 S/S
15. Modular Walls 304 S/S

SPECIFICATIONS AND DRAWINGS ARE FOR GENERAL INFORMATION ONLY AND ARE SUBJECT TO CHANGE WITHOUT NOTICE UNLESS CERTIFIED BY FACTORY.