

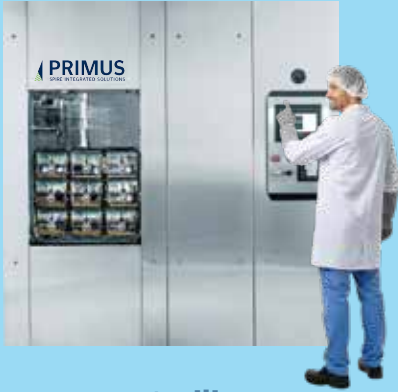


INTERACTIVE EDITION

# 2026 Vivarium Equipment Catalog

PRIMUS LYNX SCIENTEK CSI JEWETT

Spire Integrated Solutions manufactures the PRIMUS, LYNX, SCIENTEK, and CSI Jewett brands of Vivarium equipment.



sterilizers



cage & bottle washers



bedding dispensers



tunnel washers



cage & rack washers



washer accessories



decontamination chambers



necropsy workstations



bottle filler | feed dispenser

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## Animal Hero Care Equipment

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### Meet Spire Integrated Solutions

## 4 Brands.

## 1 Vivarium Solution.

Spire Integrated Solutions was founded in 2018 by merging 4 well-known equipment manufacturers into a single manufacturing entity offering Vivariums a start-to-finish purchasing, installation and service resource.

Additionally, Spire Integrated Solutions' equipment does not depend on proprietary parts, ensuring that customers can easily maintain and repair their equipment.

### THE BRANDS WE MANUFACTURE



#### Steam Sterilizers

Designed and manufactured in Great Bend, KS



#### Washers | Disinfecting | Bedding Dispensing | Filling Equipment

Designed and manufactured in Wilson, NY

- Washing systems
- Decontamination systems
- Cage & rack washers
- Bottle washers
- Misting tunnels
- Tunnel washers
- Bottle fillers
- Automated dispensing equipment



#### Pathology/Necropsy Grossing Workstations

Designed and manufactured in Erie, Pennsylvania



#### Cart & Utensil Washer

#### Modular Walls

Designed and manufactured in British Columbia, Canada

## HOW CAN WE HELP YOU? | We're more than just dependable and rugged equipment for the Vivarium.



**Spire Integrated Solutions** was established in 2018 as a result of the merger of three renowned Vivarium/Laboratory equipment brands - PRIMUS, LYNX, SCIENTEK, and CSI JEWETT.

Since then, Spire Integrated Solutions has provided Vivariums with a one-stop purchasing resource for rugged and reliable stainless steel equipment that does not rely on proprietary parts.

- **Heavy-duty equipment** built to withstand the rigorous demands of vivarium use.
- **Single-source manufacturing** guarantees quality and simplifies procurement for all brands.
- **Dedicated local sales and service teams** ensure prompt assistance.
- **Order parts online** through our PRIMUS and LYNX online parts store.
- **Uninterrupted operation**
- Made in the USA

### Equipment Planning

Leverage Spire Integrated Solutions' expertise to design an efficient and effective cage wash area.

We work hand-in-hand with your architects and lab planners to strategically position washing and sterilization equipment, avoiding interference and maximizing production capabilities.

Our engineering team provides detailed CAD and 3D layout drawings, along with individual Revit files for each piece of equipment, to ensure a seamless build process.

### Throughput Analysis

Spire Integrated Solutions can provide a throughput analysis which will determine correct chamber sizes and configuration of washing and sterilization equipment, meeting the required number of cages to be processed per day and or week.

### Installation

For seamless equipment installation, trust Spire Integrated Solutions. Our experienced team handles everything from placement and testing to commissioning. A dedicated project team manages all contractors, ensuring on-time delivery.

- Site pre-installation inspection.
- Site supervision of unloading and rigging.
- Reassembly of MEP components removed for knockdown installation.
- Setting equipment in place.
- Coordination with on site contractors for MEP connections.
- On-site equipment testing.
- Startup and user training.





### Factory Training for Your Team

- Empower your in-house team with critical maintenance skills through the InSPIRE Institute.
- Spire Integrated Solutions goes beyond equipment maintenance; we're committed to maximizing your team's efficiency by boosting uptime and streamlining qualification processes.

### Preventative Maintenance

- Escape the maintenance hassle. Let Spire Integrated Solutions be your complete preventative maintenance partner.
- Spire Integrated Solutions' team of factory-trained technicians provides expert preventative maintenance and service solutions, customized for your facility.
- Whether a simple gasket replacement, a valve rebuild, or full-service on-site maintenance, testing, and qualification, we have you covered.

### Authorized Service Agents | ASAs

- Spire Integrated Solutions provides comprehensive service for all SPIRE equipment, including PRIMUS, LYNX, SCIENTEK, and CSI Jewett.
- Our factory-trained ASAs use non-proprietary parts for efficient repairs and preventative maintenance.
- Built-in performance monitoring on all Spire Integrated Solutions' equipment tracks key data like valve cycles and run-time, enabling data-driven maintenance scheduling for maximized uptime and low-cost, peak performance.



### TALK TO US!

The Spire Integrated Solutions team will provide information regarding annual maintenance agreements, and preventative maintenance.



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# Steam Sterilizer

## Small | Model AA

### Dimensions - Inches

	Single Door	Double Door
Chamber Size	16 x 16 x 26	
Chamber Capacity	3.9 ft <sup>3</sup>	
Unit Size	32.5W x 74H x 34.6L	24W x 74H x 38.4L
Wall Opening	26W x 73H x 32.5L	26W x 73H x 27.69L
Fascia Width	34"	



### Features

- Ideal for use in research laboratories, bio-containment environments, and animal care facilities.
- Clear service access for maximum uptime.
- Simple operation
- Easily maintainable
- PRI-MATIC 100 PLC Control Platform with color touch screen control panel with remote monitoring and diagnostics abilities.
- Preprogrammed cycles with custom cycle development options.
- Energy-efficient, vertical sliding doors in a single or double door configuration.
- Choice of integral or stand-alone electric steam boiler.
- Freestanding or recessed placement
- Vertical or horizontal hinged door with left or right-side service.

### Construction

- Pri-Mirror™ chamber and door finish <10 Ra. surface finish.
- A fully-jacketed, 316L insulated chamber mounted on a steel frame.

### Options

#### Steam Source

- House steam
- Electric steam generator
- Clean steam to steam single tube, threaded

#### Controls

- Allen Bradley PRI-Matic 200, CompactLogix™
- Thermal or impact printer
- Ethernet printing

#### Biocontainment

- Effluent decontamination configuration
- Bio seal flange with application specific wall attachments

#### Sustainability

- PRI-Saver™ water conservation system
- PRI-Pure™ reverse osmosis water system

#### Shelving/Loading Equipment

- Extendable bottom shelf
- Additional chamber shelf
- Loading cart
- Transfer carriage

#### Piping

- Compressed air to gasket
- Pneumatic valves
- Stainless steel threaded piping with brass valves
- Liquid-ring electric vacuum pump
- Chamber condensate alarm
- Automatic vacuum leak rate test

#### Documentation

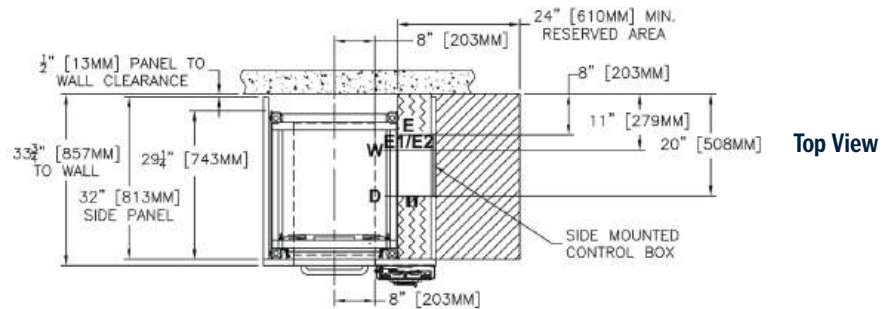
- IQ/OQ Protocol

**Utilities\***

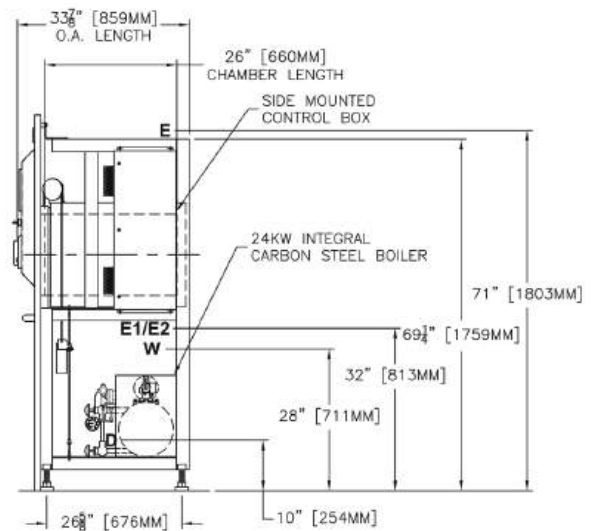
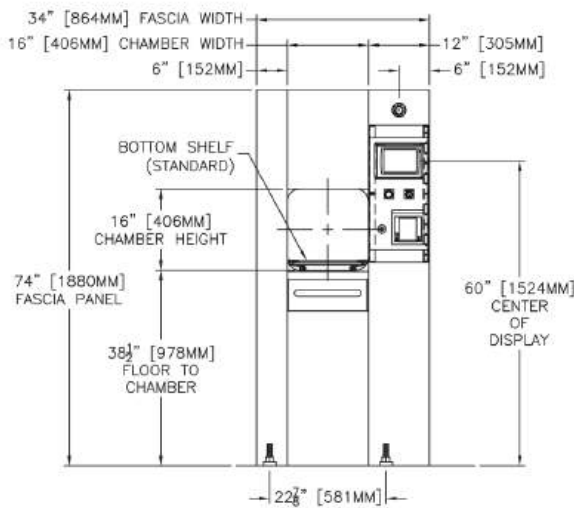
<b>Steam (S)</b>	¾" NPT, 50-80 PSIG Dynamic, 50 (22.68) # (kg) /Hr Flow Rate
<b>Cold Water (CW)</b>	¾" NPT, 50-70 PSIG, 8 (30) GPM (LPM) @ <70° F
<b>Air (A)</b>	¼" NPT, 60-100 PSI Dynamic - <i>not required on standard models only if air options selected.</i>
<b>Drain (D)</b>	¾" NPT, 12" x 12" x 8" Floor Sink with 2" Floor Drain ( <i>minimum</i> )
<b>Electrical (E)</b>	110V Single Phase 10 amp

\*Utility requirements may change based on optional features. Air is only required if air options selected.

**Drawings**



**Front View**



Single door drawing shown. Contact your representative for other model drawings. Integral boiler is optional.

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Questions?

# Steam Sterilizer

## Small | Model A

### Dimensions - Inches

	Single Door	Double Door
<b>Chamber Size</b>	20 W x 20 H x 38 D	
<b>Chamber Capacity</b>	8.8 ft <sup>3</sup>	
<b>Unit Size</b>	36.3W x 74H x 50.44L	38W x 74H x 50.4L
<b>Wall Opening</b>		
<b>Fascia Width</b>	30W x 73H x 44.5L	38" 30W x 73H x 40.4L



### Features

- Ideal for use in research laboratories, bio-containment environments, and animal care facilities.
- Clear service access for maximum uptime.
- Simple operation
- Easily maintainable
- PRI-MATIC 100 PLC Control Platform with color touch screen control panel with remote monitoring and diagnostics abilities.
- Preprogrammed cycles with custom cycle development options.
- Energy-efficient, vertical sliding doors in a single or double door configuration.
- Choice of integral or stand-alone electric steam boiler.
- Freestanding or recessed placement
- Vertical or horizontal hinged door with left or right-side service.

### Construction

- Pri-Mirror™ chamber and door finish <10 Ra. surface finish.
- A fully-jacketed, 316L insulated chamber mounted on a steel frame.

### Options

#### Steam Source

- House steam
- Electric steam generator
- Clean steam to steam single tube, threaded

#### Controls

- Allen Bradley PRI-Matic 200, CompactLogix™
- Thermal or impact printer
- Ethernet printing

#### Biocontainment

- Effluent decontamination configuration
- Bio seal flange with application specific wall attachments

#### Sustainability

- PRI-Saver™ water conservation system
- PRI-Pure™ reverse osmosis water system

#### Shelving/Loading Equipment

- Extendable bottom shelf
- Additional chamber shelf
- Loading cart
- Transfer carriage

#### Piping

- Compressed air to gasket
- Pneumatic valves
- Stainless steel threaded piping with brass valves
- Liquid-ring electric vacuum pump
- Chamber condensate alarm
- Automatic vacuum leak rate test

#### Documentation

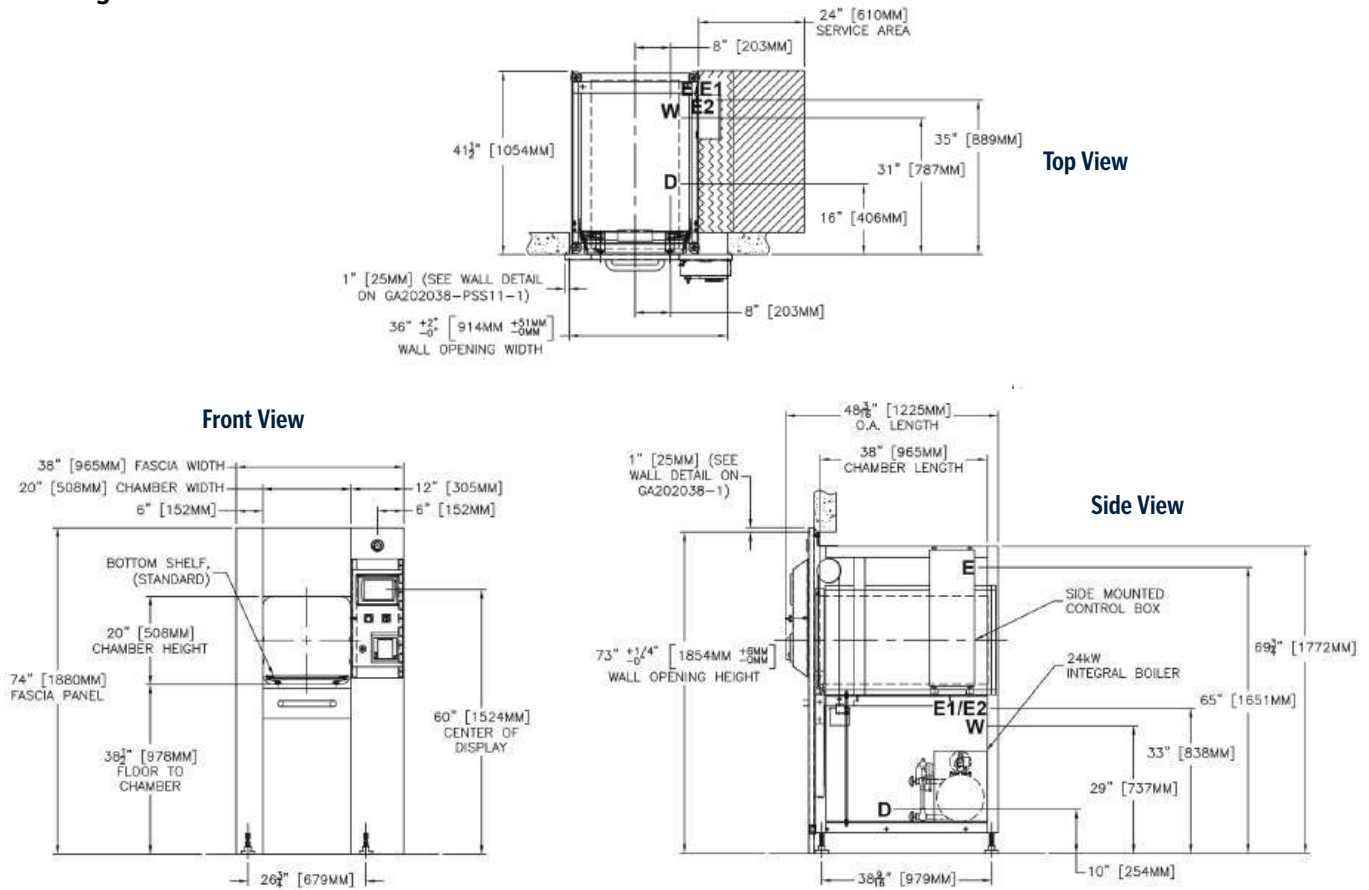
- IQ/OQ Protocol

Utilities\*

Steam (S)	3/4" NPT, 50-80 PSIG Dynamic, 65 (29.48) # (kg) /Hr Flow Rate
Cold Water (CW)	3/4" NPT, 50-70 PSIG, 8 (30) GPM (LPM) @ <70° F
Air (A)	1/4" NTP, 60-100 PSI Dynamic - <i>not required on standard models only if air options selected.</i>
Drain (D)	3/4" NPT, 12" x 12" x 8" Floor Sink with 2" Floor Drain ( <i>minimum</i> )
Electrical (E)	110V Single Phase 10 amp

\*Utility requirements may change based on optional features. Air is only required if air options selected.

Drawings



Single door drawing shown. Contact your representative for other model drawings. Integral boiler is optional.

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# Steam Sterilizer

## Small | Model B

### Dimensions - Inches

	Single Door	Double Door
Chamber Size	26 W x 26 H x 39 D	
Chamber Capacity	15.3 ft <sup>3</sup>	
Unit Size	41.2 W x 80 H x 47.6 L	44 W x 80 H x 52.4 L
Wall Opening	36 W x 79 H x 46.5 L	36 W x 79 H x 41.4 L
Fascia Width	44"	

### Features

- Ideal for use in research laboratories, bio-containment environments, and animal care facilities.
- Clear service access for maximum uptime.
- Simple operation
- Easily maintainable
- PRI-MATIC 100 PLC Control Platform with color touch screen control panel with remote monitoring and diagnostics abilities.
- Preprogrammed cycles with custom cycle development options.
- Energy-efficient, vertical sliding doors in a single or double door configuration.
- Choice of integral or stand-alone electric steam boiler.
- Freestanding or recessed placement
- Vertical or horizontal hinged door with left or right-side service.

### Construction

- Pri-Mirror™ chamber and door finish <10 Ra. surface finish.
- A fully-jacketed, 316L insulated chamber mounted on a steel frame.

### Options

#### Steam Source

- House steam
- Electric steam generator
- Clean steam to steam single tube, threaded

#### Controls

- Allen Bradley Pri-Matic 200, CompactLogix™
- Thermal or impact printer
- Ethernet printing

#### Biocontainment

- Effluent decontamination configuration
- Bio seal flange with application specific wall attachments

#### Sustainability

- PRI-Saver™ water conservation system
- PRI-Pure™ reverse osmosis water system

#### Shelving/Loading Equipment

- Extendable bottom shelf
- Additional chamber shelf
- Loading cart
- Transfer carriage

#### Piping

- Compressed air to gasket
- Pneumatic valves
- Stainless steel threaded piping with brass valves
- Liquid-ring electric vacuum pump
- Chamber condensate alarm
- Automatic vacuum leak rate test

#### Documentation

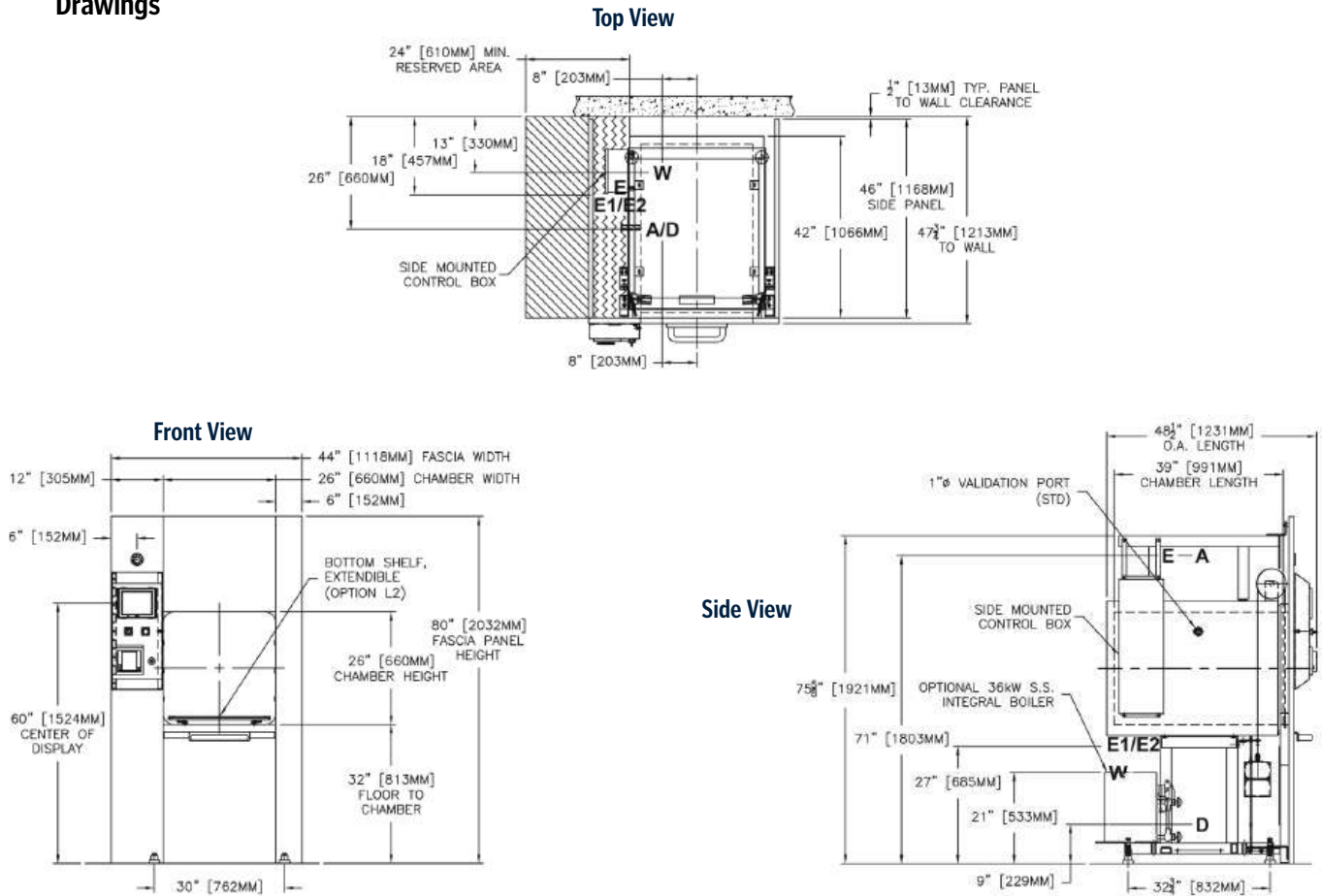
- IQ/OQ Protocol

**Utilities\***

<b>Steam (S)</b>	3/4" NPT, 50-80 PSIG Dynamic, 100 (45.36) # (kg) /Hr Flow Rate
<b>Cold Water (CW)</b>	3/4" NPT, 50-70 PSIG, 8 (30) GPM (LPM) @ <70° F
<b>Air (A)</b>	1/4" NP, 160-100 PSI Dynamic - <i>not required on standard models only if air options selected.</i>
<b>Drain (D)</b>	3/4" NPT, 12" x 12" x 8" Floor Sink with 2" Floor Drain ( <i>minimum</i> )
<b>Electrical (E)</b>	110V Single Phase 10 amp

\*Utility requirements may change based on optional features. Air is only required if air options selected.

**Drawings**



Single door drawing shown. Contact your representative for other model drawings. Integral boiler is optional.

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# Steam Sterilizer

## Small | Model C

### Dimensions - Inches

	Single Door	Double Door
<b>Chamber Size</b>	26 W x 26 H x 49 D	
<b>Chamber Capacity</b>	19.2 ft <sup>3</sup>	
<b>Unit Size</b>	41.2 W x 80 H x 57.6 L	49 W x 80 H x 62.4 L
<b>Wall Opening</b>	36 W x 79 H x 56 L	36 W x 79 H x 51 L
<b>Fascia Width</b>	44"	

### Features

- Ideal for use in research laboratories, bio-containment environments, and animal care facilities.
- Clear service access for maximum uptime.
- Simple operation
- Easily maintainable
- PRI-MATIC 100 PLC Control Platform with color touch screen control panel with remote monitoring and diagnostics abilities.
- Preprogrammed cycles with custom cycle development options.
- Energy-efficient, vertical sliding doors in a single or double door configuration.
- Choice of integral or stand-alone electric steam boiler.
- Freestanding or recessed placement
- Vertical or horizontal hinged door with left or right-side service.

### Construction

- Pri-Mirror™ chamber and door finish <10 Ra. surface finish.
- A fully-jacketed, 316L insulated chamber mounted on a steel frame.

### Options

#### Steam Source

- House steam
- Electric steam generator
- Clean steam to steam single tube, threaded

#### Controls

- Allen Bradley PRI-Matic 200, CompactLogix™
- Thermal or impact printer
- Ethernet printing

#### Biocontainment

- Effluent decontamination configuration
- Bio seal flange with application specific wall attachments

#### Sustainability

- PRI-Saver™ water conservation system
- PRI-Pure™ reverse osmosis water system

#### Shelving/Loading Equipment

- Extendable bottom shelf
- Additional chamber shelf
- Loading cart
- Transfer carriage

#### Piping

- Compressed air to gasket
- Pneumatic valves
- Stainless steel threaded piping with brass valves
- Liquid-ring electric vacuum pump
- Chamber condensate alarm
- Automatic vacuum leak rate test

#### Documentation

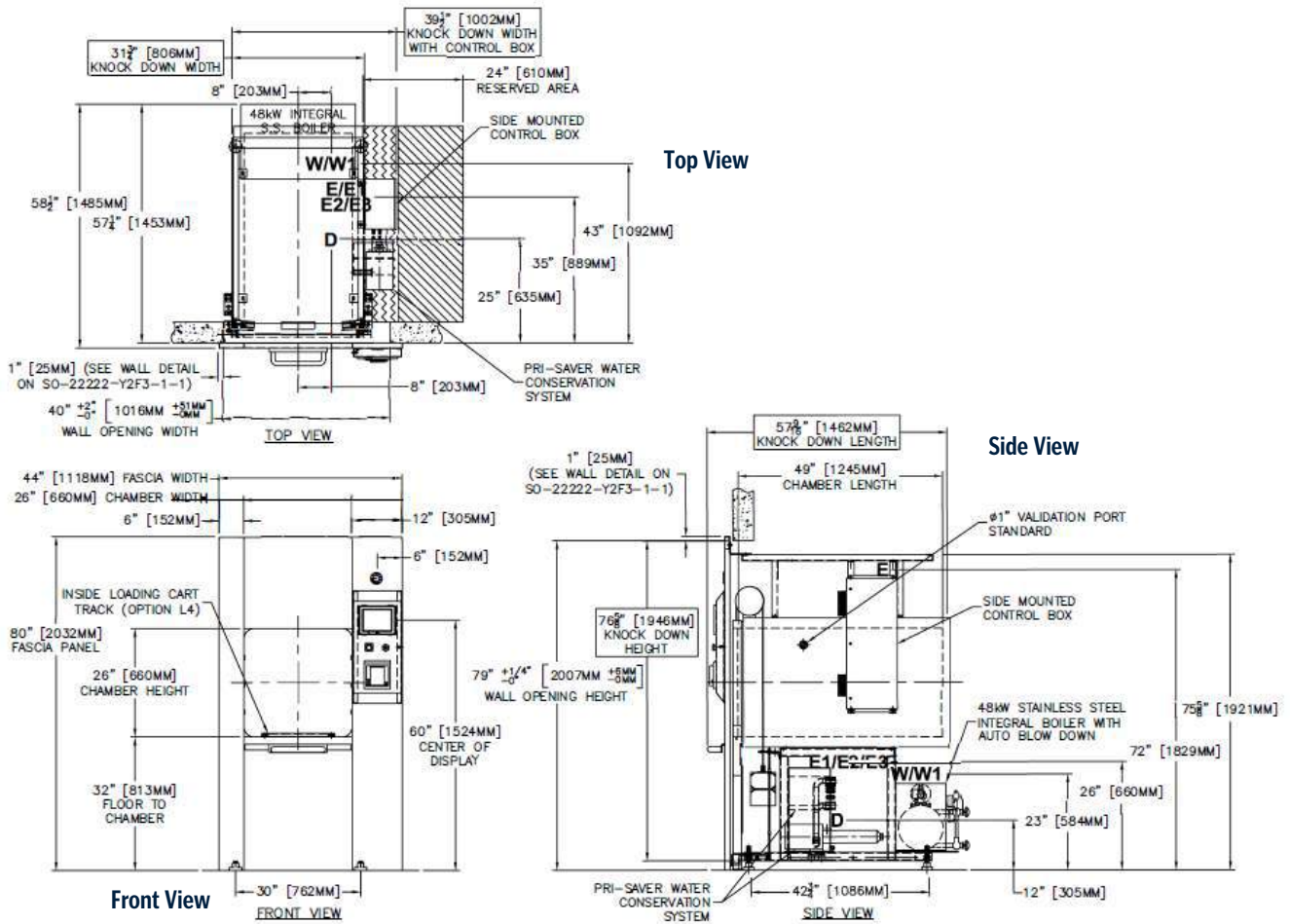
- IQ/OQ Protocol

**Utilities\***

<b>Steam (S)</b>	¾" NPT, 50-80 PSIG Dynamic, 134 (60.78) # (kg) /Hr Flow Rate
<b>Cold Water (CW)</b>	¾" NPT, 50-70 PSIG, 14 (53) GPM (LPM) @ <70° F
<b>Air (A)</b>	¼" NPT, 60-100 PSI Dynamic - not required on standard models only if air options selected.
<b>Drain (D)</b>	1" NPT, 12" x 12" x 8" Floor Sink with 2" Floor Drain ( <i>minimum</i> )
<b>Electrical (E)</b>	110V Single Phase 10 amp

\*Utility requirements may change based on optional features. Air is only required if air options selected.

**Drawings**



Single door drawing shown. Contact your representative for other model drawings. Integral boiler is optional.

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# Steam Sterilizer

## Small | Model D

### Dimensions - Inches

	Single Door	Double Door
Chamber Size	26 x 26 x 67	
Chamber Capacity	26.2 ft <sup>3</sup>	
Unit Size	36W x 79H x 74L	44W x 80H x 80.5L
Wall Opening	41.2W x 80H x 80.5L	36W x 79H x 69.4L
Fascia Width	44"	

### Features

- Ideal for use in research laboratories, bio-containment environments, and animal care facilities.
- Clear service access for maximum uptime.
- Simple operation
- Easily maintainable
- PRI-MATIC 100 PLC Control Platform with color touch screen control panel with remote monitoring and diagnostics abilities.
- Preprogrammed cycles with custom cycle development options.
- Energy-efficient, vertical sliding doors in a single or double door configuration.
- Choice of integral or stand-alone electric steam boiler.
- Freestanding or recessed placement
- Vertical or horizontal hinged door with left or right-side service.

### Construction

- Pri-Mirror™ chamber and door finish <10 Ra. surface finish.
- A fully-jacketed, 316L insulated chamber mounted on a steel frame.

### Options

#### Steam Source

- House steam
- Electric steam generator
- Clean steam to steam single tube, threaded

#### Controls

- Allen Bradley PRI-Matic 200, CompactLogix™
- Thermal or impact printer
- Ethernet printing

#### Biocontainment

- Effluent decontamination configuration
- Bio seal flange with application specific wall attachments

#### Sustainability

- PRI-Saver™ water conservation system
- PRI-Pure™ reverse osmosis water system

#### Shelving/Loading Equipment

- Extendable bottom shelf
- Additional chamber shelf
- Loading cart
- Transfer carriage

#### Piping

- Compressed air to gasket
- Pneumatic valves
- Stainless steel threaded piping with brass valves
- Liquid-ring electric vacuum pump
- Chamber condensate alarm
- Automatic vacuum leak rate test

#### Documentation

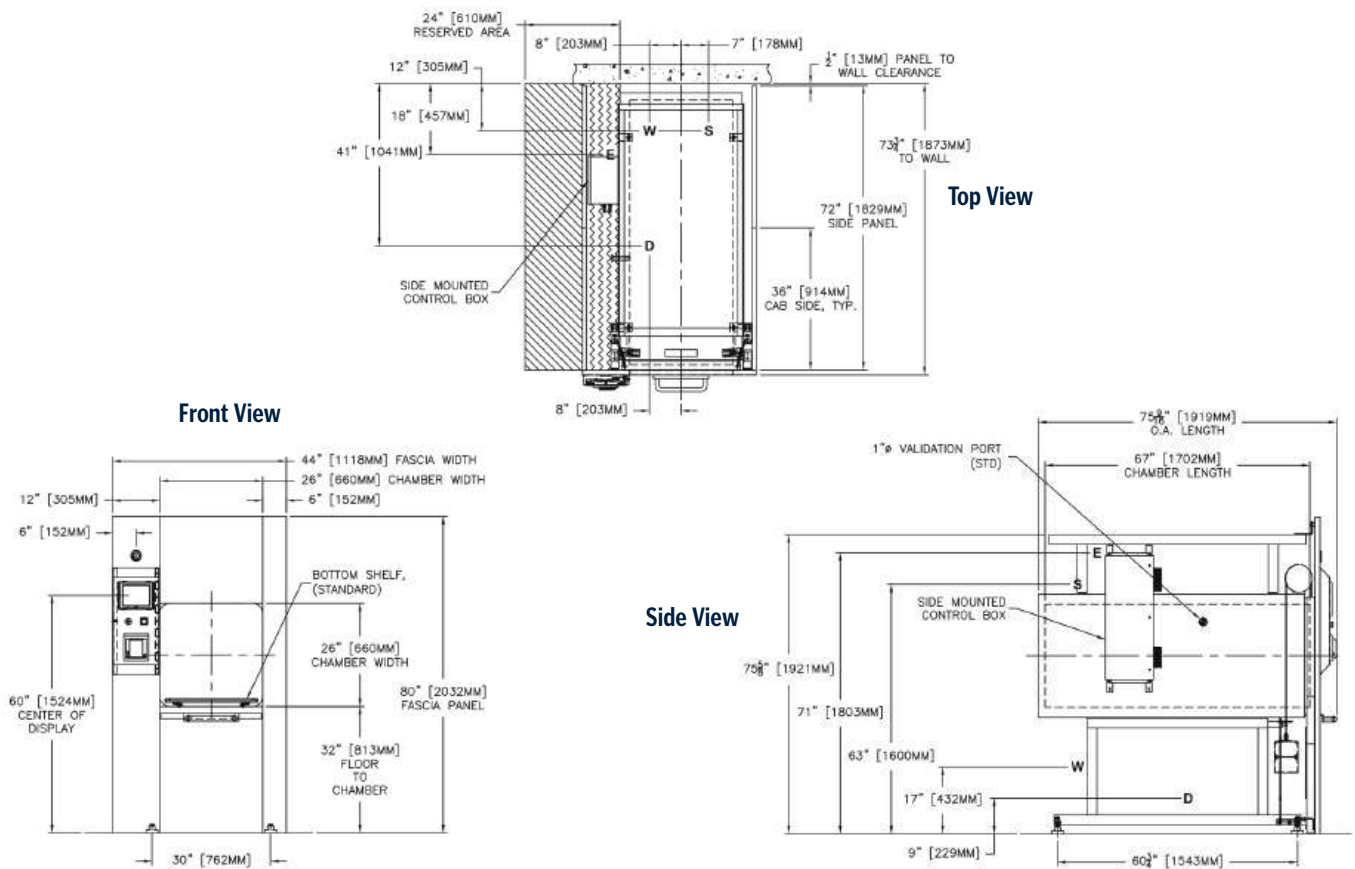
- IQ/OQ Protocol

**Utilities\***

<b>Steam (S)</b>	¾" NPT, 50-80 PSIG Dynamic, 204 (92.53) # (kg) /Hr Flow Rate
<b>Cold Water (CW)</b>	¾" NPT, 50-70 PSIG, 14 (53) GPM (LPM) @ <70° F
<b>Air (A)</b>	1/4" NTP, 60-100 PSI Dynamic - <i>not required on standard models only if air options selected.</i>
<b>Drain (D)</b>	1" NPT, 12" x 12" x 8" Floor Sink with 2" Floor Drain ( <i>minimum</i> )
<b>Electrical (E)</b>	110V Single Phase 10 amp

\*Utility requirements may change based on optional features. Air is only required if air options selected.

**Drawings**



Single door drawing shown. Contact your representative for other model drawings. Integral boiler is optional.

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# Steam Sterilizer

## Medium | Model E



### Dimensions - Inches (W x H x L)

	Single Door	Double Door
<b>Chamber Size</b>	26 W x 36 H x 39 L	
<b>Chamber Capacity</b>	21 ft <sup>3</sup>	
<b>Unit Size</b>	41 W x 81 H x 53.2 L	41 W x 81 H x 58L 76
<b>Wall Opening</b>	76 W x 80 H x 51.5 L	W x 80 H x 50.9 L
<b>Fascia Width</b>	82 W x 81 H	

### Features

- Ideal for use in research laboratories, bio-containment environments, and animal care facilities.
- Clear service access for maximum uptime.
- Simple operation
- Easily maintainable
- Hands-free options available.
- PRI-MATIC 100 PLC Control Platform with color touch screen control panel with remote monitoring and diagnostics abilities.
- Preprogrammed cycles with custom cycle development options.
- Energy-efficient, vertical sliding doors in a single or double door configuration.
- Choice of integral or stand-alone electric steam boiler.
- Freestanding or recessed placement
- Vertical or horizontal hinged door with left or right-side service.

### Construction

- Pri-Mirror™ chamber and door finish <10 Ra. surface finish.
- A fully-jacketed, 316L insulated chamber mounted on a steel frame.

### Options

#### Steam Source

- House steam
- Electric steam generator
- Clean steam to steam single tube, threaded

#### Controls

- Allen Bradley PRI-Matic 200, MicroLogix™
- Thermal or impact printer
- Ethernet printing

#### Biocontainment

- Effluent decontamination configuration
- Bio seal flange with application specific wall attachments

#### Sustainability

- PRI-Saver™ water conservation system
- PRI-Pure™ reverse osmosis water system

#### Shelving/Loading Equipment

- Extendable bottom shelf
- Additional chamber shelf
- Loading cart
- Transfer carriage

#### Piping

- Compressed air to gasket
- Pneumatic valves
- Stainless steel threaded piping with brass valves
- Liquid-ring electric vacuum pump
- Chamber condensate alarm
- Automatic vacuum leak rate test

#### Documentation

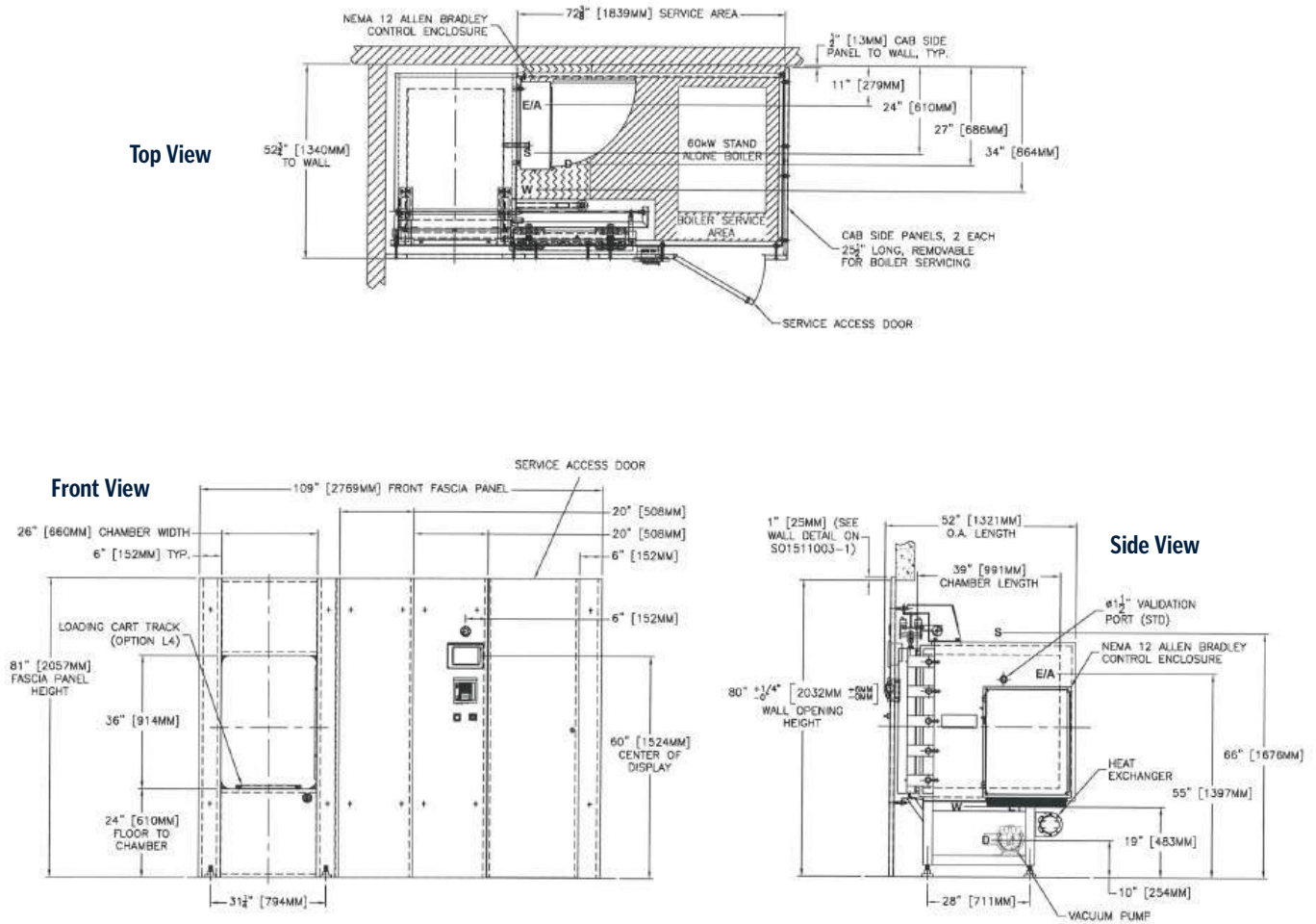
- IQ/OQ Protocol

**Utilities\***

<b>Steam (S)</b>	¾" NPT, 50-80 PSIG Dynamic, 169 (76.55) # (kg) /Hr Flow Rate
<b>Cold Water (CW)</b>	¾" NPT, 50-70 PSIG, 14 (53) GPM (LPM) @ <70° F
<b>Air (A)</b>	¼" NPT, 60-80 PSI Dynamic - <i>not required on standard models only if air options selected.</i>
<b>Drain (D)</b>	1" NPT, 12" x 12" x 8" Floor Sink with 2" Floor Drain ( <i>minimum</i> )
<b>Electrical (E)</b>	110V Single Phase 10 amp

\*Utility requirements may change based on optional features. Air is only required if air options selected.

**Drawings**



Single door drawing shown. Contact your representative for other model drawings. Integral boiler is optional.

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# Steam Sterilizer

## Medium | Model F

### Dimensions - Inches (W x H x L)

	Single Door	Double Door
Chamber Size	26 W x 36 H x 48 L	
Chamber Capacity	26 ft <sup>3</sup>	
Unit Size	41 W x 81 H x 62.2 L	41 W x 81 H x 67.5 L
Wall Opening	76 W x 80 H x 60.5 L	76W x 80H x 59.9 L
Fascia Width	82 W x 81 H	

### Features

- Ideal for use in research laboratories, bio-containment environments, and animal care facilities.
- Clear service access for maximum uptime.
- Simple operation
- Easily maintainable
- Hands-free options available.
- PRI-MATIC 100 PLC Control Platform with color touch screen control panel with remote monitoring and diagnostics abilities.
- Preprogrammed cycles with custom cycle development options.
- Energy-efficient, vertical sliding doors in a single or double door configuration.
- Choice of integral or stand-alone electric steam boiler.
- Freestanding or recessed placement
- Vertical or horizontal hinged door with left or right-side service.

### Construction

- Pri-Mirror™ chamber and door finish <10 Ra. surface finish.
- A fully-jacketed, 316L insulated chamber mounted on a steel frame.

### Options

#### Steam Source

- House steam
- Electric steam generator
- Clean steam to steam single tube, threaded

#### Controls

- Allen Bradley PRI-Matic 200, MicroLogix™
- Thermal or impact printer
- Ethernet printing

#### Biocontainment

- Effluent decontamination configuration
- Bio seal flange with application specific wall attachments

#### Sustainability

- PRI-Saver™ water conservation system
- PRI-Pure™ reverse osmosis water system

#### Shelving/Loading Equipment

- Extendable bottom shelf
- Additional chamber shelf
- Loading cart
- Transfer carriage

#### Piping

- Compressed air to gasket
- Pneumatic valves
- Stainless steel threaded piping with brass valves
- Liquid-ring electric vacuum pump
- Chamber condensate alarm
- Automatic vacuum leak rate test

#### Documentation

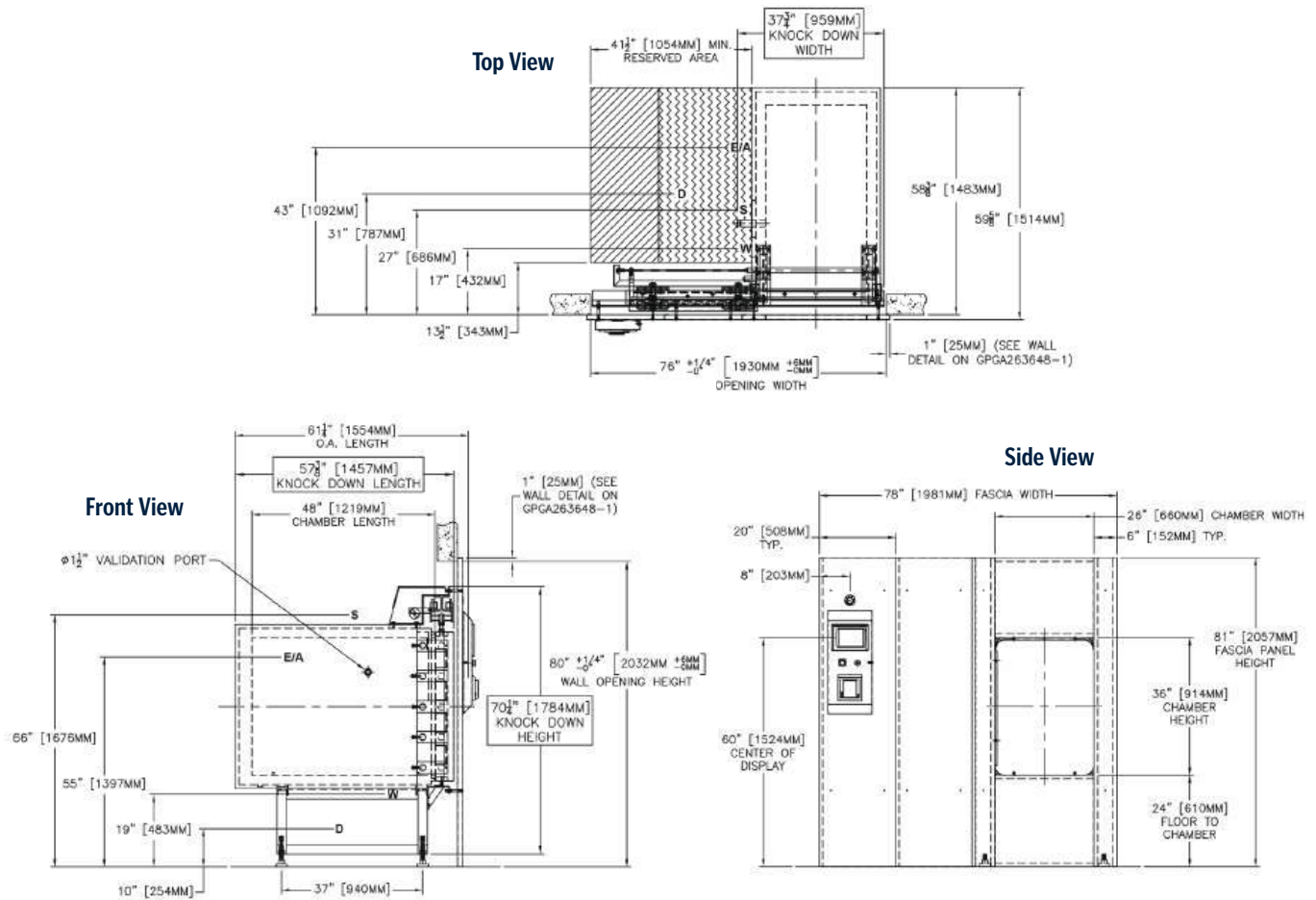
- IQ/OQ Protocol

**Utilities\***

<b>Steam (S)</b>	¾" NPT, 50-80 PSIG Dynamic, 200 (90.72) # (kg) /Hr Flow Rate
<b>Cold Water (CW)</b>	¾" NPT, 50-70 PSIG, 14 (53) GPM (LPM) @ <70° F
<b>Air (A)</b>	1/4" NPT, 60-80 PSI Dynamic - not required on standard models only if air options selected.
<b>Drain (D)</b>	1" NPT, 12" x 12" x 8" Floor Sink with 2" Floor Drain ( <i>minimum</i> )
<b>Electrical (E)</b>	110V Single Phase 10 amp

\*Utility requirements may change based on optional features. Air is only required if air options selected.

**Drawings**



Single door drawing shown. Contact your representative for other model drawings. Integral boiler is optional.

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# Steam Sterilizer

## Medium | Model G

### Dimensions - Inches (W x H x L)

	Single Door	Double Door
Chamber Size	26 W x 36 H x 60 L	
Chamber Capacity	33 ft <sup>3</sup>	
Unit Size	41 W x 81 H x 74.2 L	41 W x 81 H x 79.5
Wall Opening	76 W x 80 H x 72.5 L	L 76 W x 80 H x 72 L
Fascia Width	82 W x 81 H	



### Features

- Ideal for use in research laboratories, bio-containment environments, and animal care facilities.
- Clear service access for maximum uptime.
- Simple operation
- Easily maintainable
- Hands-free options available.
- PRI-MATIC 100 PLC Control Platform with color touch screen control panel with remote monitoring and diagnostics abilities.
- Preprogrammed cycles with custom cycle development options.
- Energy-efficient, vertical sliding doors in a single or double door configuration.
- Choice of integral or stand-alone electric steam boiler.
- Freestanding or recessed placement
- Vertical or horizontal hinged door with left or right-side service.

### Construction

- Pri-Mirror™ chamber and door finish <10 Ra. surface finish.
- A fully-jacketed, 316L insulated chamber mounted on a steel frame.

### Options

#### Steam Source

- House steam
- Electric steam generator
- Clean steam to steam single tube, threaded

#### Controls

- Allen Bradley PRI-Matic 200, CompactLogix™
- Thermal or impact printer
- Ethernet printing

#### Biocontainment

- Effluent decontamination configuration
- Bio seal flange with application specific wall attachments

#### Sustainability

- PRI-Saver™ water conservation system
- PRI-Pure™ reverse osmosis water system

#### Shelving/Loading Equipment

- Extendable bottom shelf
- Additional chamber shelf
- Loading cart
- Transfer carriage

#### Piping

- Compressed air to gasket
- Pneumatic valves
- Stainless steel threaded piping with brass valves
- Liquid-ring electric vacuum pump
- Chamber condensate alarm
- Automatic vacuum leak rate test

#### Documentation

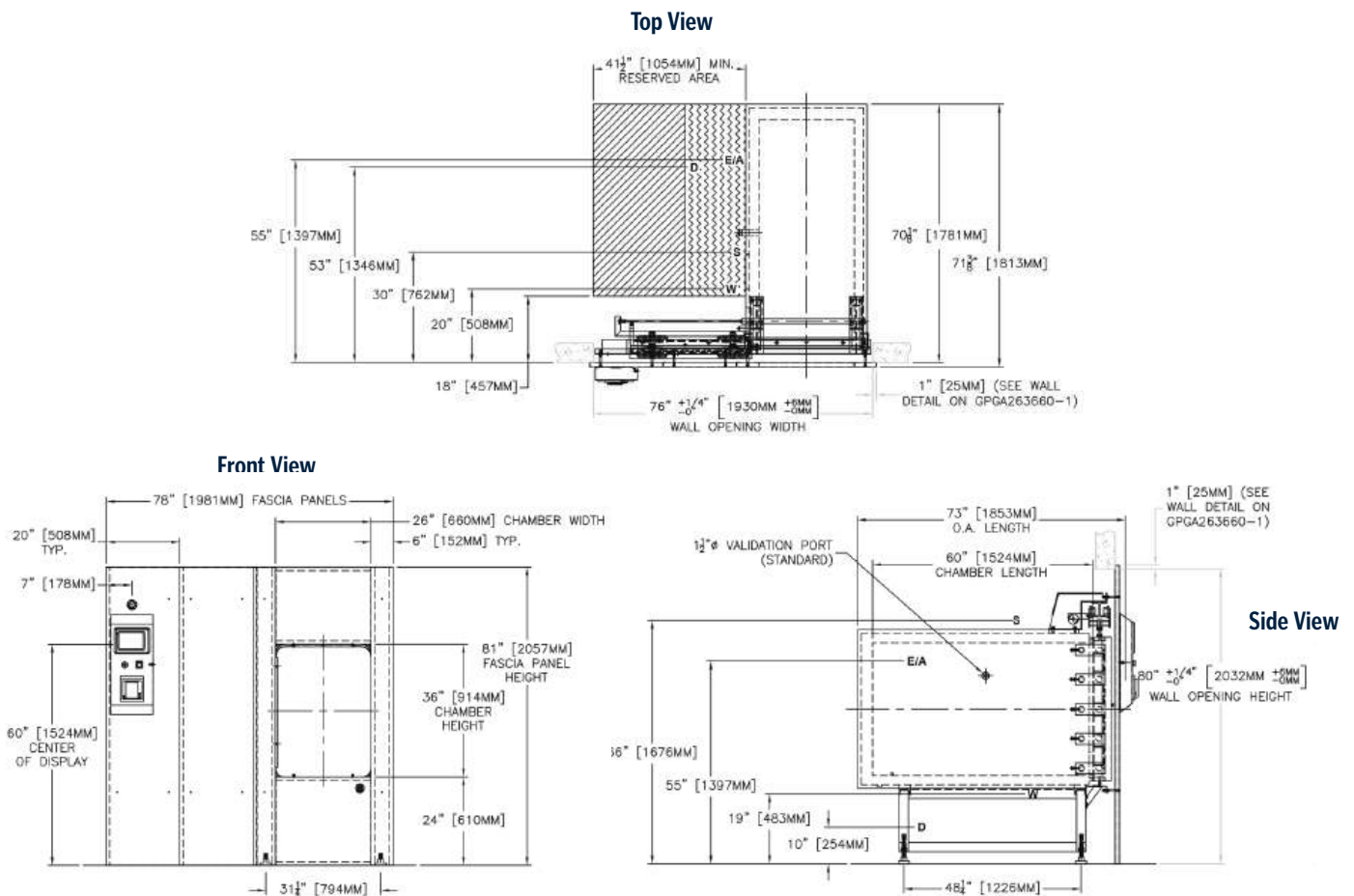
- IQ/OQ Protocol

**Utilities\***

<b>Steam (S)</b>	1" NPT, 50-80 PSIG Dynamic, 260 (117.94) # (kg) /Hr Flow Rate
<b>Cold Water (CW)</b>	¾" NPT, 50-70 PSIG, 14 (53) GPM (LPM) @ <70° F
<b>Air (A)</b>	¼" NPT, 60-80 PSI Dynamic - <i>not required on standard models only if air options selected.</i>
<b>Drain (D)</b>	1" NPT, 12" x 12" x 8" Floor Sink with 2" Floor Drain ( <i>minimum</i> )
<b>Electrical (E)</b>	110V Single Phase 10 amp

\*Utility requirements may change based on optional features. Air is only required if air options selected.

**Drawings**



Single door drawing shown. Contact your representative for other model drawings. Integral boiler is optional.

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Questions?

# Steam Sterilizer

## Medium | Model G1



### Dimensions - Inches

	Single Door	Double Door
Chamber Size	32 W x 36 H x 48 L	
Chamber Capacity	32 ft <sup>3</sup>	
Unit Size	87 W x 81 H x 63.13 L	87 W x 81 H x 67.25 L
Wall Opening	88 W x 80 H x 62.5 L	88 W x 80 H x 62 L
Fascia Width	82 W x 81 H	82 W x 81 H

### Features

- Ideal for use in research laboratories, bio-containment environments, and animal care facilities.
- Clear service access for maximum uptime.
- Simple operation
- Easily maintainable
- Hands-free options available.
- PRI-MATIC 100 PLC Control Platform with color touch screen control panel with remote monitoring and diagnostics abilities.
- Preprogrammed cycles with custom cycle development options.
- Energy-efficient, vertical sliding doors in a single or double door configuration.
- Choice of integral or stand-alone electric steam boiler.
- Freestanding or recessed placement
- Vertical or horizontal hinged door with left or right-side service.

### Construction

- Pri-Mirror™ chamber and door finish <10 Ra. surface finish.
- A fully-jacketed, 316L insulated chamber mounted on a steel frame.

### Options

#### Steam Source

- House steam
- Electric steam generator
- Clean steam to steam single tube, threaded

#### Controls

- Allen Bradley PRI-Matic 200, CompactLogix™
- Thermal or impact printer
- Ethernet printing

#### Biocontainment

- Effluent decontamination configuration
- Bio seal flange with application specific wall attachments

#### Sustainability

- PRI-Saver™ water conservation system
- PRI-Pure™ reverse osmosis water system

#### Shelving/Loading Equipment

- Extendable bottom shelf
- Additional chamber shelf
- Loading cart
- Transfer carriage

#### Piping

- Compressed air to gasket
- Pneumatic valves
- Stainless steel threaded piping with brass valves
- Liquid-ring electric vacuum pump
- Chamber condensate alarm
- Automatic vacuum leak rate test

#### Documentation

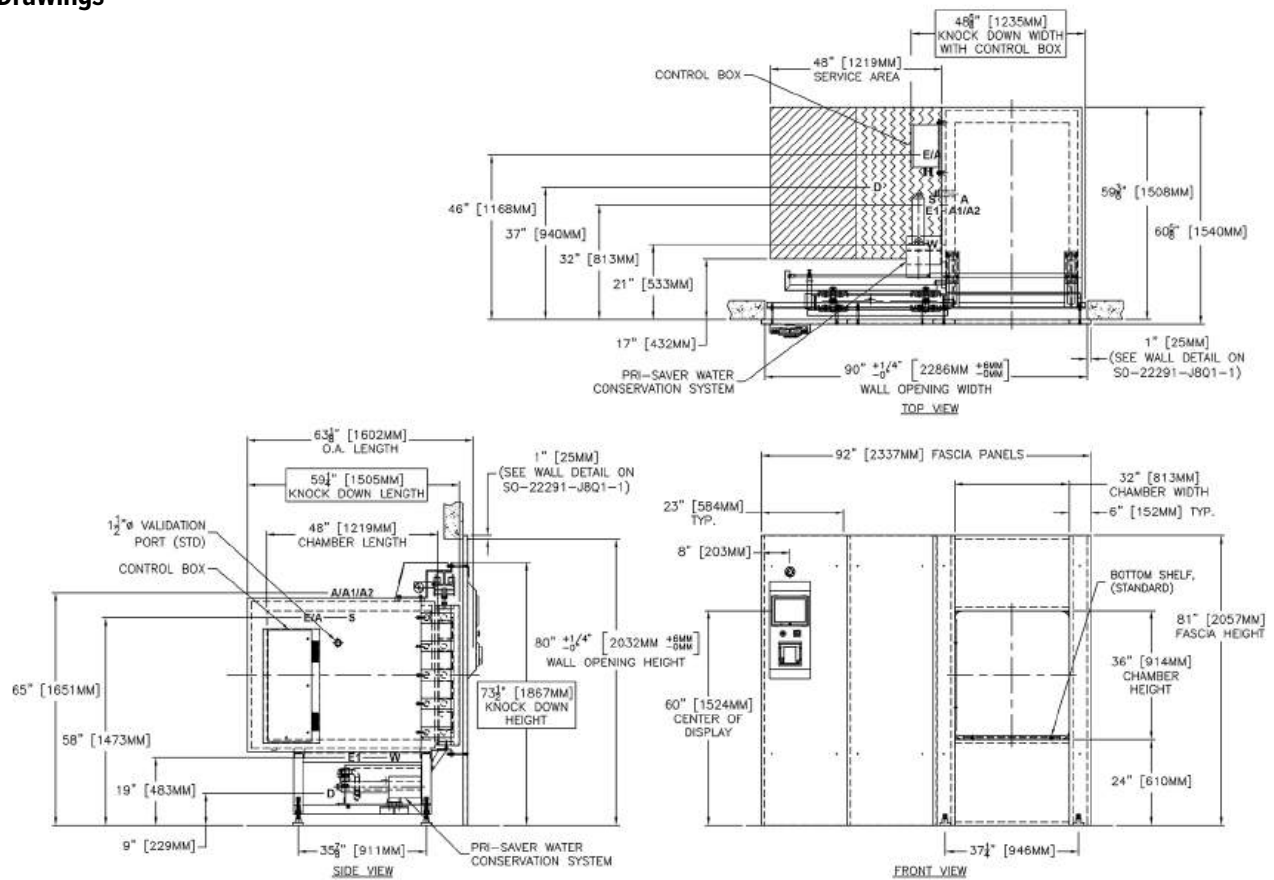
- IQ/OQ Protocol

**Utilities\***

<b>Steam (S)</b>	¾" NPT, 50-80 PSIG Dynamic, 200 (90.72) # (kg) /Hr Flow Rate
<b>Cold Water (CW)</b>	¾" NPT, 50-70 PSIG, 14 (53) GPM (LPM) @ <70° F
<b>Air (A)</b>	1/4" NPT, 60-80 PSI Dynamic - <i>not required on standard models only if air options selected.</i>
<b>Drain (D)</b>	1" NPT, 12" x 12" x 8" Floor Sink with 2" Floor Drain ( <i>minimum</i> )
<b>Electrical (E)</b>	110V Single Phase 10 amp

\*Utility requirements may change based on optional features. Air is only required if air options selected.

**Drawings**



Single door drawing shown. Contact your representative for other model drawings. Integral boiler is optional.

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# Steam Sterilizer

## Medium | Model H



### Dimensions - Inches

	Single Door	Double Door
<b>Chamber Size</b>	36 W x 42 H x 60 L	
<b>Chamber Capacity</b>	53 ft <sup>3</sup>	
<b>Unit Size</b>	97 W x 86 H x 75.25 D	97 W x 86 H x 79.4 D
<b>Wall Opening</b>	100 W x 85 H x 75.75"D	100 W x 85 H x 74.2 D
<b>Fascia Width</b>	106 W x 86 H	

### Features

- Ideal for use in research laboratories, bio-containment environments, and animal care facilities.
- Clear service access for maximum uptime.
- Simple operation
- Easily maintainable
- Hands-free options available.
- PRI-MATIC 100 PLC Control Platform with color touch screen control panel with remote monitoring and diagnostics abilities.
- Preprogrammed cycles with custom cycle development options.
- Energy-efficient, vertical sliding doors in a single or double door configuration.
- Choice of integral or stand-alone electric steam boiler.
- Freestanding or recessed placement
- Vertical or horizontal hinged door with left or right-side service.

### Construction

- Pri-Mirror™ chamber and door finish <10 Ra. surface finish.
- A fully-jacketed, 316L insulated chamber mounted on a steel frame.

### Options

#### Steam Source

- House steam
- Electric steam generator
- Clean steam to steam single tube, threaded

#### Controls

- Allen Bradley PRI-Matic 200, CompactLogix™
- Thermal or impact printer
- Ethernet printing

#### Biocontainment

- Effluent decontamination configuration
- Bio seal flange with application specific wall attachments

#### Sustainability

- PRI-Saver™ water conservation system
- PRI-Pure™ reverse osmosis water system

#### Shelving/Loading Equipment

- Extendable bottom shelf
- Additional chamber shelf
- Loading cart
- Transfer carriage

#### Piping

- Compressed air to gasket
- Pneumatic valves
- Stainless steel threaded piping with brass valves
- Liquid-ring electric vacuum pump
- Chamber condensate alarm
- Automatic vacuum leak rate test

#### Documentation

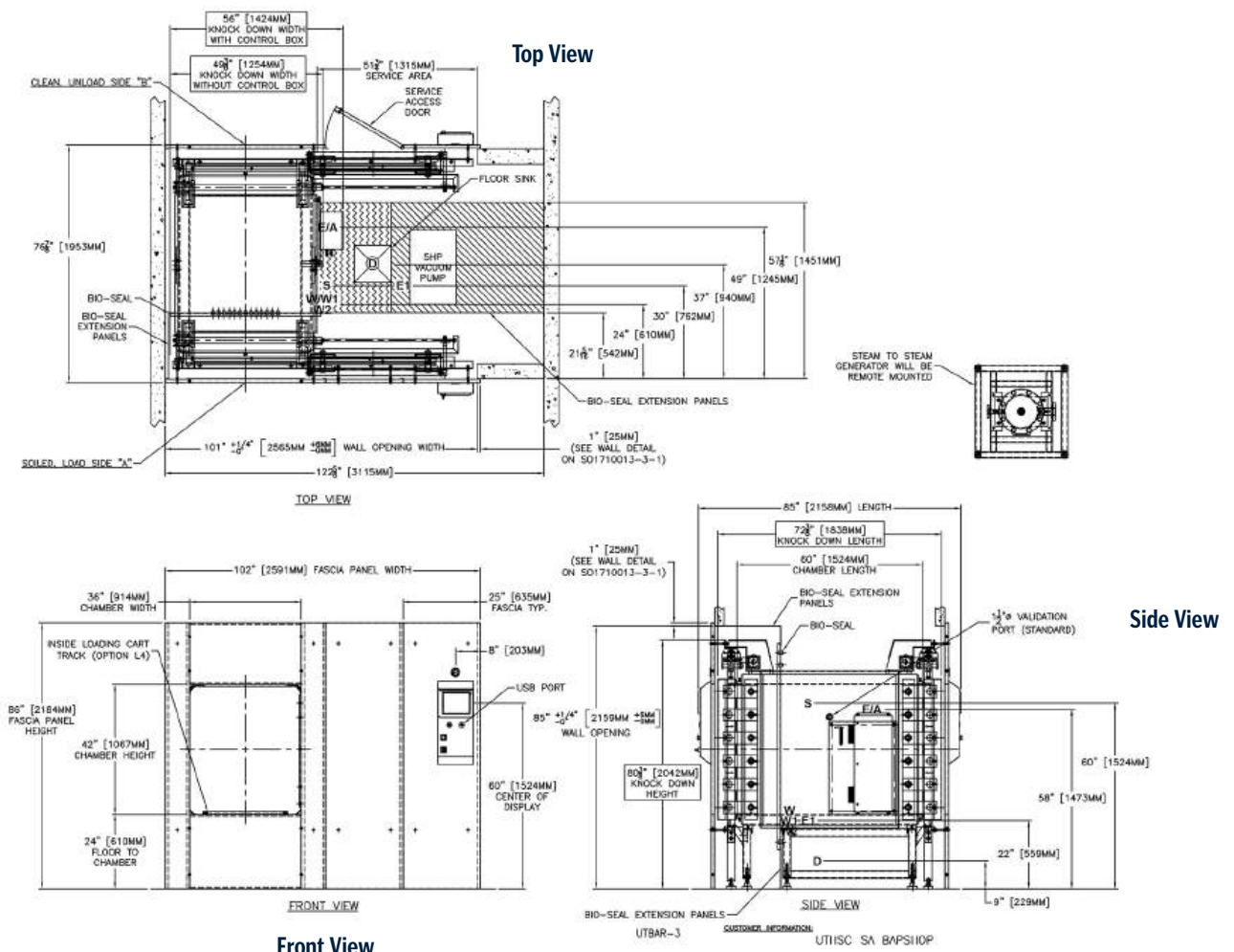
- IQ/OQ Protocol

**Utilities\***

<b>Steam (S)</b>	1" NPT, 50-80 PSIG Dynamic, 350 (58.76) # (kg) /Hr Flow Rate
<b>Cold Water (CW)</b>	1" NPT, 50-70 PSIG, 14 (53) GPM (LPM) @ <70° F
<b>Air (A)</b>	1/4" NPT, 60-80 PSI Dynamic - not required on standard models only if air options selected.
<b>Drain (D)</b>	1¼" NPT, 12" x 12" x 8" Floor Sink with 2" Floor Drain ( <i>minimum</i> )
<b>Electrical (E)</b>	110V Single Phase 10 amp

\*Utility requirements may change based on optional features. Air is only required if air options selected.

**Drawings**



Single door drawing shown. Contact your representative for other model drawings. Integral boiler is optional.

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# Steam Sterilizer

## Medium | Model I



### Dimensions - Inches

	Single Door	Double Door
<b>Chamber Size</b>	36 W x 42 H x 84 L	
<b>Chamber Capacity</b>	74 ft <sup>3</sup>	
<b>Unit Size</b>	97 W x 86 H x 99.25 D	97 W x 86 H x 103.4 D
<b>Wall Opening</b>	100 W x 85 H x 99.75 D	100 W x 85 H x 98.2 D
<b>Fascia Width</b>	106 W x 86 H	

### Features

- Ideal for use in research laboratories, bio-containment environments, and animal care facilities.
- Clear service access for maximum uptime.
- Simple operation
- Easily maintainable
- Hands-free options available.
- PRI-MATIC 100 PLC Control Platform with color touch screen control panel with remote monitoring and diagnostics abilities.
- Preprogrammed cycles with custom cycle development options.
- Energy-efficient, vertical sliding doors in a single or double door configuration.
- Choice of integral or stand-alone electric steam boiler.
- Freestanding or recessed placement
- Vertical or horizontal hinged door with left or right-side service.

### Construction

- Pri-Mirror™ chamber and door finish <10 Ra. surface finish.
- A fully-jacketed, 316L insulated chamber mounted on a steel frame.

### Options

#### Steam Source

- House steam
- Electric steam generator
- Clean steam to steam single tube, threaded

#### Controls

- Allen Bradley PRI-Matic 200, CompactLogix™
- Thermal or impact printer
- Ethernet printing

#### Biocontainment

- Effluent decontamination configuration
- Bio seal flange with application specific wall attachments

#### Sustainability

- PRI-Saver™ water conservation system
- PRI-Pure™ reverse osmosis water system

#### Shelving/Loading Equipment

- Extendable bottom shelf
- Additional chamber shelf
- Loading cart
- Transfer carriage

#### Piping

- Compressed air to gasket
- Pneumatic valves
- Stainless steel threaded piping with brass valves
- Liquid-ring electric vacuum pump
- Chamber condensate alarm
- Automatic vacuum leak rate test

#### Documentation

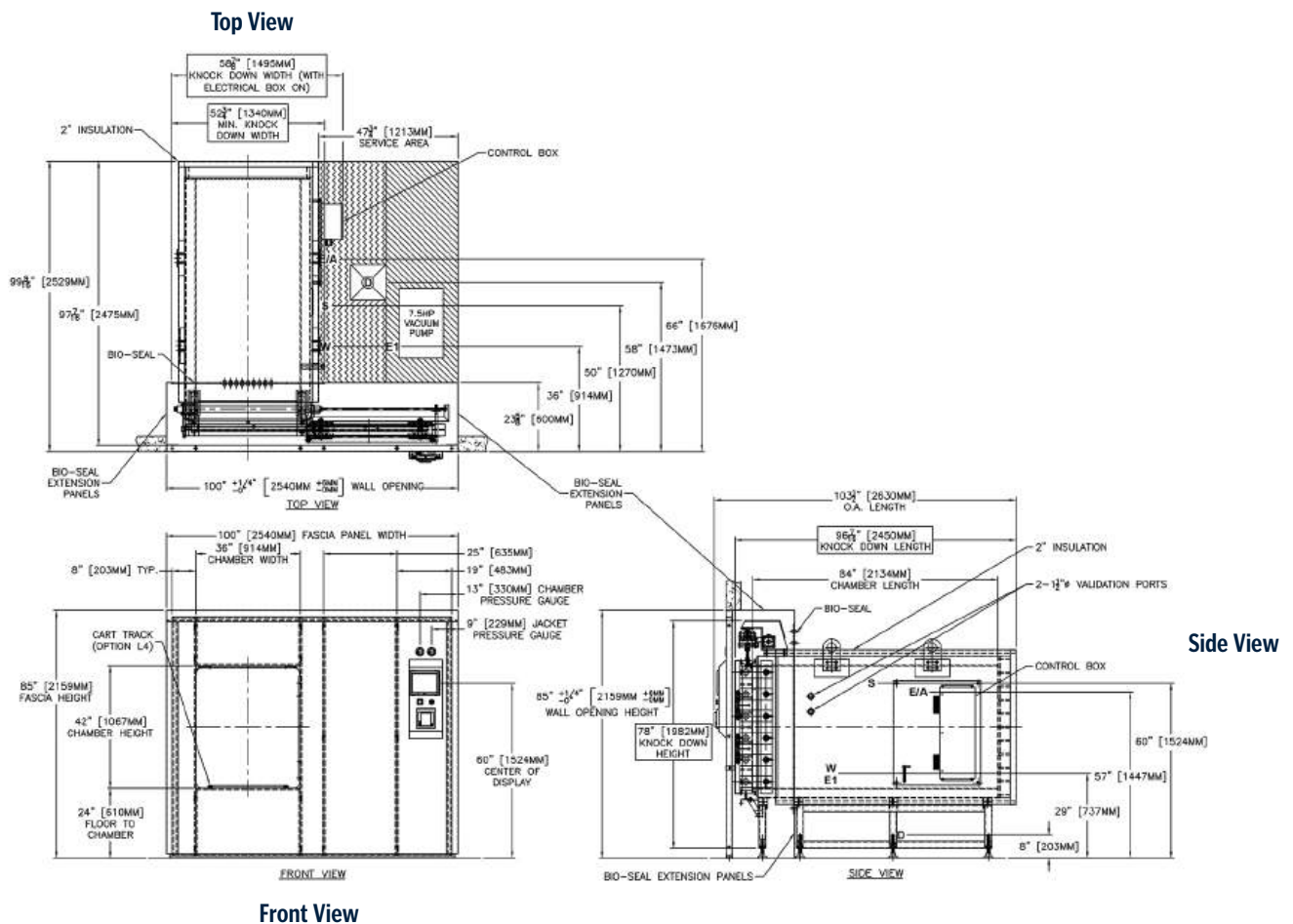
- IQ/OQ Protocol

**Utilities\***

<b>Steam (S)</b>	1" NPT, 50-80 PSIG Dynamic, 420 (190.51) # (kg) /Hr Flow Rate
<b>Cold Water (CW)</b>	1" NPT, 50-70 PSIG, 25 (76) GPM (LPM) @ <70° F
<b>Air (A)</b>	1/4" NPT, 60-80 PSI Dynamic - not required on standard models only if air options selected.
<b>Drain (D)</b>	1¼" NPT, 12" x 12" x 8" Floor Sink with 2" Floor Drain (minimum)
<b>Electrical (E)</b>	110V Single Phase 10 amp

\*Utility requirements may change based on optional features. Air is only required if air options selected.

**Drawings**



Single door drawing shown. Contact your representative for other model drawings. Integral boiler is optional.

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# Bottle Fillers

## MODEL COMPARISONS

**100LX**



**100BF**



**110LX**



**110BF**



**170LX**



	Standard Load Length	Avail. Load Lengths
100LX	38	NA
100BF <sup>1</sup>	22	NA
110LX	60	72, 84, 96
110BF <sup>2</sup>	23	48, 56, 96
170LX	NA	NA

All dimensions listed in inches.

1) 100BF (formerly SCIENTEK SWBF-25) 2) 110BF (formerly SCIENTEK SWBF-36)

STANDARD FEATURES	100LX	100BF	110LX	110BF	170LX
Fill Splash Guard	●		●		
304 SS Construction	●	●	●		●
Slide Rail Loading	●	●	●		●
Adjustable Basket Guides	●		●		
Manual Fill Valve	●	●	●		●
Interchangeable Header	●	●	●		●
Lower Basket Storage		●		●	
No Drip Nozzles		●		●	
Wall Mounted					●
Drop-down Header					●
Basket Transfer Cart					●
Auto Fill Valve	Opt	Opt	Opt	Opt	●

**AVAILABLE OPTIONS**

Automatic Fill Valve	●	●		●	
Acid Proportioner	●		●		●
pH Monitoring System	●		●		●
Roller Table (in lieu of slide rails)	●	●	●	●	
316L SS Construction	●	●	●		●
Dual Filler Head Filling			●		
Extended Load Lengths			●	●	

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# Bottle Fillers

## Model 100BF

Efficient and precise bottle filling for common bottle basket configurations (24, 25 or 36 position).

Model	Standard Dimensions <i>W x H x D</i>	Standard Load Length
100BF	18" x 44" x 28"	22"

### Features

- Slide Rail Loading
- Adjustable Height Manifold
- Manual Fill Valve
- Interchangeable Header
- Adjustable Leveling Feet
- Lower Basket Storage
- Uniform Volume Nozzles

### Construction

The LYNX brand 100BF Bottle Fillers are constructed of a sturdy 304 stainless steel tubular design. 4 leveling legs and a quick disconnect filler manifold.

The individual stainless steel spray jets are positioned to fill bottles of various type and configurations. Additional optional headers available.

### Options

- Automatic Operations with AutoFill Valve
- Roller Table Loading (*in lieu of slide rails*)
- DI or RO Water Supply
- Acid Proportioner
- pH Monitoring System
- Double Wide (*dual filling manifolds*)
- Seismic Tie Downs
- 316L Stainless Steel Construction

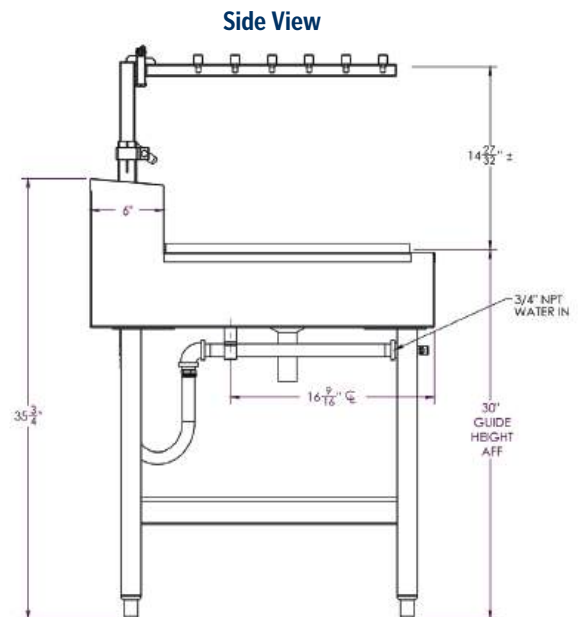
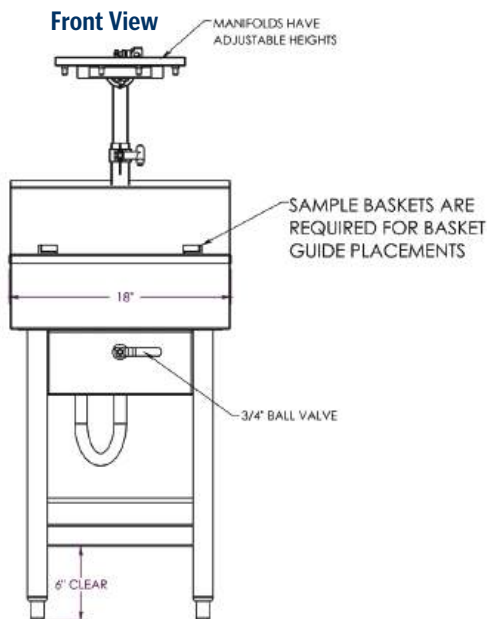
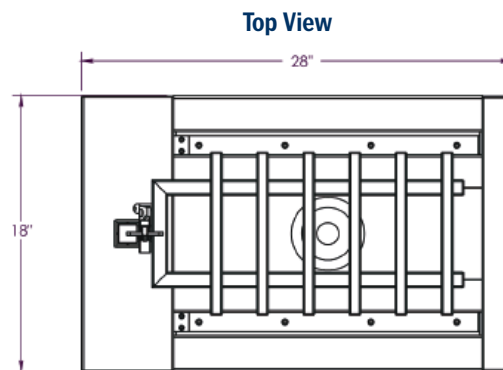
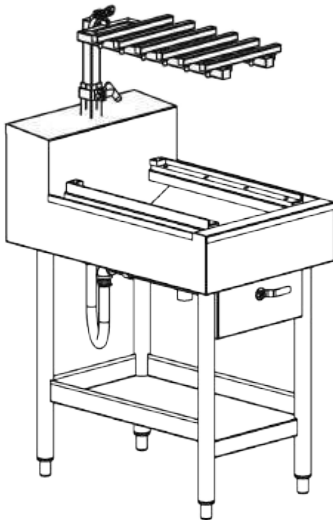
### Accessories

- Additional Fill Header
- Bottle Basket Transfer Cart
- Bottle Baskets

## Utilities

Electrical (E)*	Required if Auto Fill Packaged ordered. 120VAC 1" NPT 35 PSI, ±
Water (W)	5° F
Drain (D)	1½" Connection

## Drawings



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Spire Integrated Solutions manufactures the LYNX brand of Vivarium Bottle Filling equipment.

# Bottle Fillers

## Model 100LX

**Efficient and precise bottle filling  
for our animal heroes.**



Model	Standard Dimensions <i>W x H x D</i>	Standard Load Length
100LX	24" x 48"* x 41"	38"

*\*53.5" High with automatic operations control panel.*

*Filler can be designed to any basket size or configuration to meet new or existing applications.*

### Features

- Accepts common bottle basket configurations (24, 25 or 36 position)
- Slide Rail Loading
- Adjustable Basket Guides
- Manual Fill Valve
- Interchangeable Header
- Adjustable Leveling Feet
- Integrated Stainless Steel Backsplash
- Uniform Volume Nozzles
- Ease of cleaning, low maintenance, and long life.
- Uniform water delivery using either manual or automatic controls

### Options

- Automatic Operations with AutoFill Valve
- Roller Table Loading (*in lieu of slide rails*)
- DI or RO Water Supply
- Acid Proportioner
- pH Monitoring System
- pH Printer
- Seismic Tie Downs
- 316L Stainless Steel Construction

### Accessories

- Additional Fill Header
- Bottle Basket Transfer Cart
- Bottle Baskets

### Construction

The LYNX brand 100LX Bottle Filler is constructed of a sturdy 304 stainless steel tubular design.

Filler comes equipped with four leveling legs, an integral stainless steel splash hood, and quick disconnect filler manifold.

The individual stainless steel spray jets are positioned to fill bottles of various type and configurations.

Additional optional headers available.

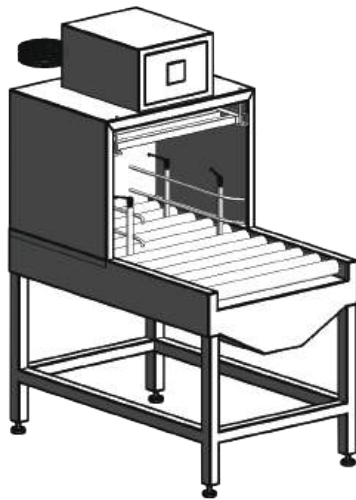
## Utilities

Electrical (E)\* *Required if Auto Fill option ordered.*

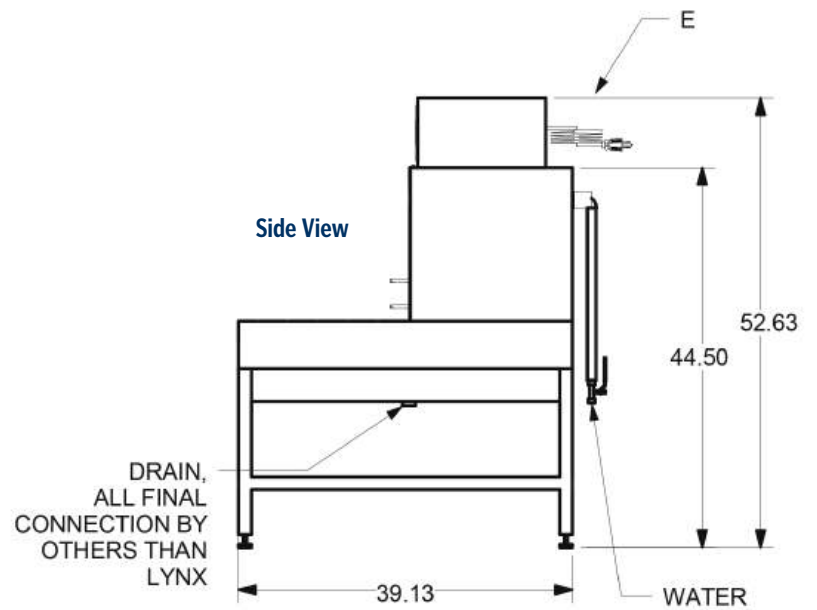
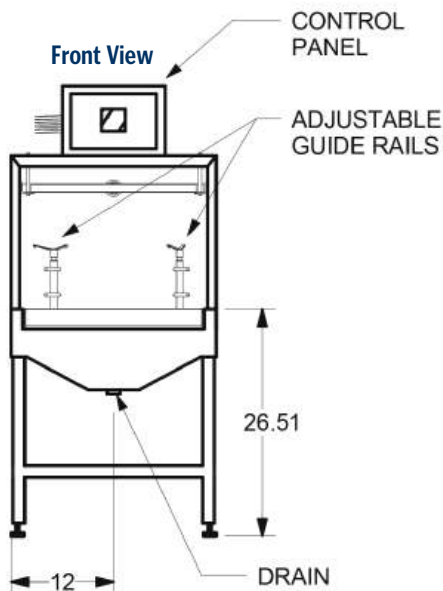
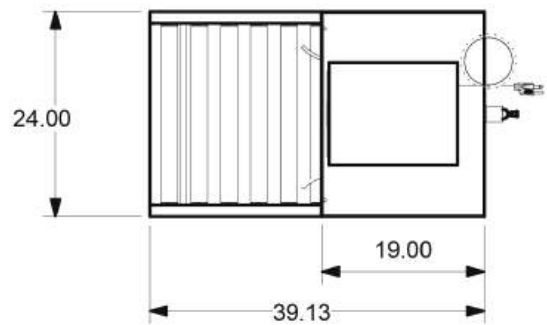
Water (W) 120VAC 1" NPT, 35 PSI, ± 5° F

Drain 1½" Connection

## Drawings



Top View



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# Bottle Filler

## Model 110BF

Slide rail loading for efficient and precise bottle filling for animal heroes.



Model	Standard Dimensions <i>W x H x D</i>	Standard Load Length	Available Load Lengths
110BF	72" x 34" x 29"	23"	48", 56", 96"

### Features

- Slide Rail Loading
- Adjustable Height Manifold
- Manual Fill Valve
- Interchangeable Header
- Adjustable Leveling Feet
- Lower Basket Storage
- Uniform Volume Nozzles

### Construction

The LYNX brand 110BF Bottle Filler are constructed of a sturdy 304 stainless steel tubular design. Filler comes equipped with four leveling legs and quick disconnect filler manifold.

The individual stainless steel spray jets are positioned to fill bottles of various type and configurations. Additional optional headers or dual-header arrangement available.

### Options

- Automatic Operations with AutoFill Valve
- Roller Table Loading (*in lieu of slide rails*)
- DI or RO Water Supply
- Acid Proportioner
- pH Monitoring System
- Seismic Tie Downs
- 316L Stainless Steel Construction
- Extended Load Lengths

### Accessories

- Additional Fill Header
- Bottle Basket Transfer Cart
- Bottle Baskets

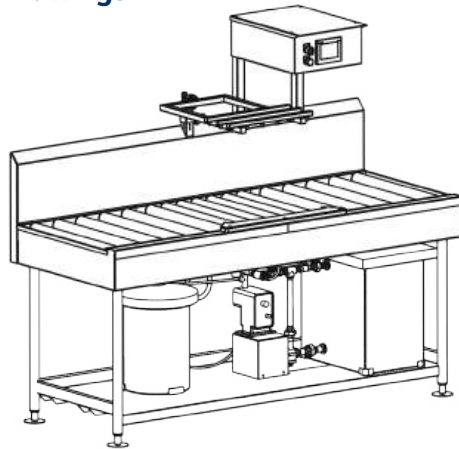
## Utilities

**Electrical (E)\*** Required if Auto Fill Packaged ordered. 120VAC

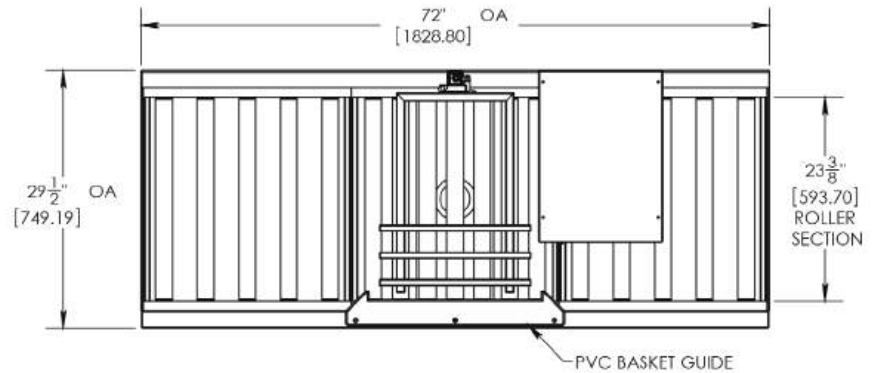
**Water (W)** 1" NPT, 35 PSI, ± 5° F

**Drain** 1½" Connection

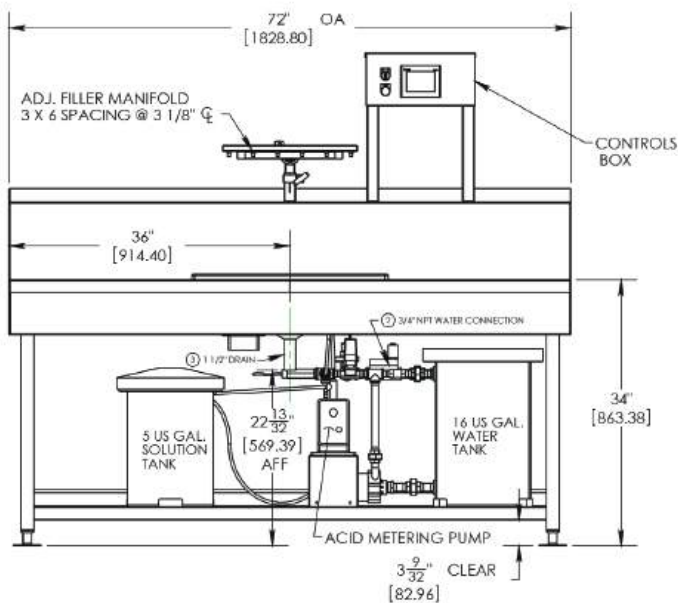
## Drawings



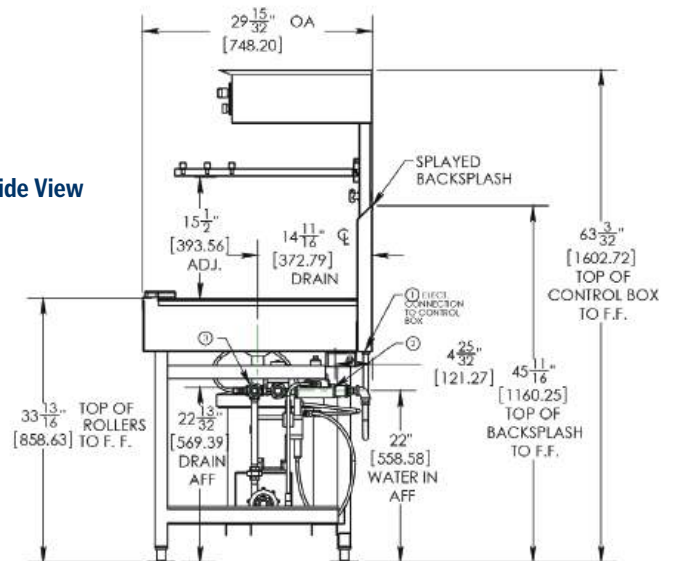
**Top View**



**Front View**



**Side View**



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Spire Integrated Solutions manufactures the LYNX brand of Bottle Filling equipment.



## Bottle Fillers

### Model 110LX

Efficient and precise bottle filling for our animal heroes.

Model	Standard Dimensions <i>W x H x D</i>	Standard Load Length	Opt. Load Lengths
110LX	72" x 58"* x 32"	72"	48", 96"

*\*Dimensions may change with selected options.*

*Filler can be designed to any basket size or configuration to meet new or existing applications.*

### Features

- Track Slide Rails
- Fixed Basket Guide
- Manual Fill Valve
- Interchangeable Header
- Adjustable Leveling Feet
- Integrated Stainless Steel Backsplash

### Construction

The LYNX brand 110LX Bottle Fillers are constructed of a sturdy 304 stainless steel tubular design.

Fillers come equipped with eight leveling legs, an integral stainless steel backsplash, and quick disconnect filler manifold.

The individual stainless steel spray jets are positioned to fill bottles of various types and configurations.

Additional optional headers or dual header arrangement available.

### Options

- Automatic Operations with AutoFill Valve
- Roller Table Loading (*in lieu of slide rails*)
- DI or RO Water Supply
- Acid Proportioner
- pH Monitoring System
- pH Printer
- Seismic Tie Downs
- 316L Stainless Steel Construction
- Dual Head Filling
- Extended Load Lengths

### Accessories

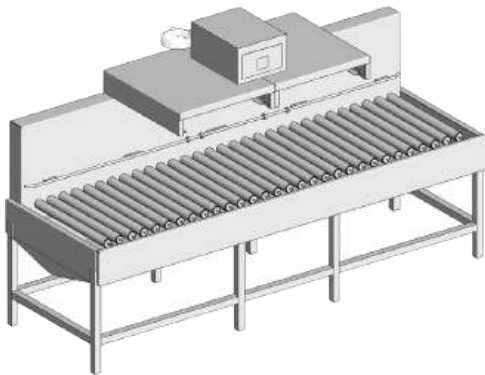
- Additional Fill Header
- Bottle Basket Transfer Cart
- Bottle Baskets

## Utilities

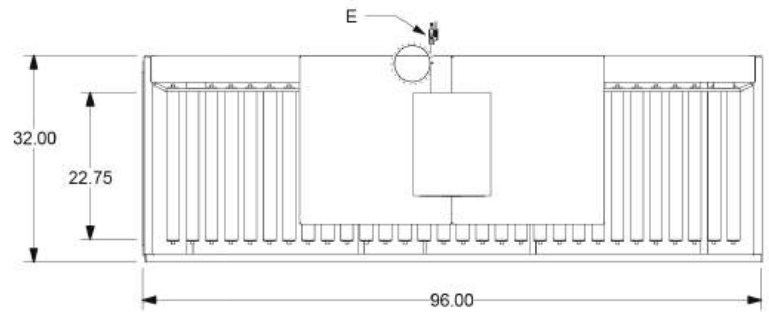
**Electrical (E)\*** Required if Auto Fill option ordered. 120VAC 1" NPT, 35 PSI

**Water (W)** ± 5° F

**Drain (D)** 1½" Connection



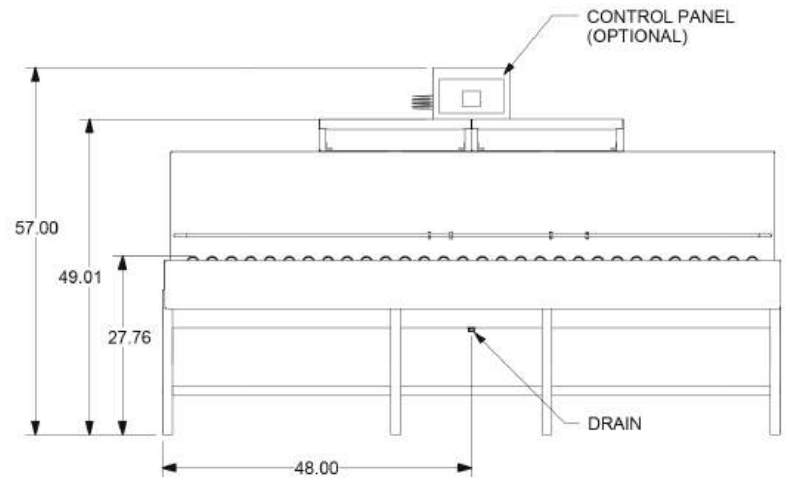
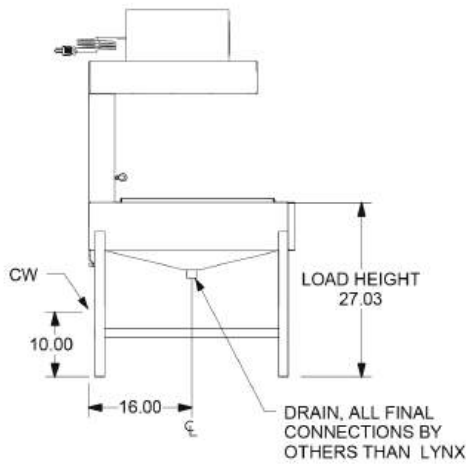
Top View



REPRESENTED WITH DUAL HEADER (OPTIONAL)

REPRESENTED AS 96" LONG - OPTIONAL LENGTHS AVAILABLE

Front View



Side View

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Spire Integrated Solutions manufactures the LYNX brand of Vivarium Bottle Filling equipment.



# Bottle Filler & Feed Dispenser

## Model 170LX

Efficient and precise bottle filling & feed dispensing for animal heroes.

Model	Standard Dimensions	Standard Dimensions
	W x H x D	W x H x D
170LX	No cart/header up 26" x 54" x 9.75"	Cart/header down 26" x 42" x 32.13"

Filler can be designed to any basket size or configuration to meet new or existing applications.

### Features

- Wall Mounted
- Automatic Fill Valve
- Interchangeable Header
- Individual Stainless Steel Spray Jets
- Drop-down Header
- Basket Transfer Cart
- Made in the USA
- Made with high-quality 318 stainless steel.
- Compact, manifold-style filler.
- Water delivery for standard 24, 25, or 36-position bottle baskets.
- Manual or automatic operation.

### Options

- Selectable Bottle Types
- DI or RO Water Supply
- Acid Proportioner
- pH Monitoring System
- pH Strip Chart Recorder
- 316L Stainless Steel

### Accessories

- Additional Fill Header
- Bottle Baskets

### Construction

The LYNX brand, 170LX Bottle Fillers have all 304 stainless steel construction including piping and components.

Fill header is fitted with gas-filled springs for gentle raising and lowering of the header.

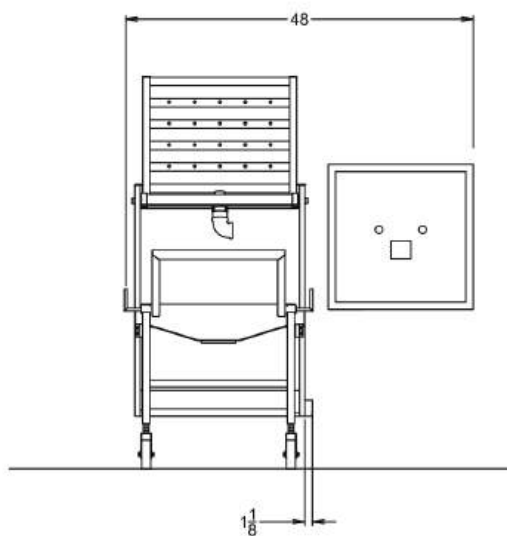
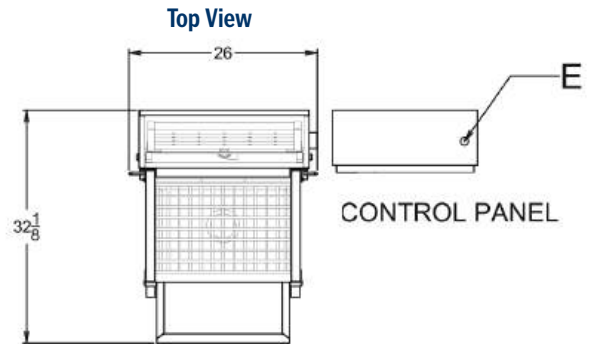
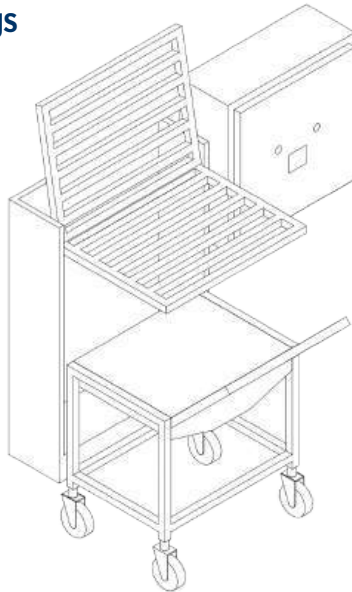
## Utilities

**Electrical (E)\*** Required if Auto Fill Packaged ordered. 120VAC

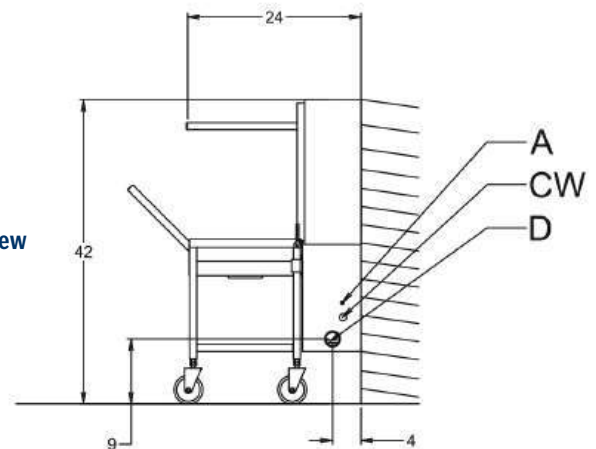
**Water (W)** 1" NPT, 35 PSI,  $\pm 5^\circ$  F

**Drain (D)** 1/2" Connection

## Drawings



**Side View**



**Front View**

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# Bedding Dispenser

## MODEL COMPARISON

710LX



724LX  
730LX  
736LX  
742LX  
748LX



	Standard Belt Widths	Tunnel Height Opening
710LX	NA	14"
724LX	24"	12"
730LX	30"	12"
736LX	36"	12"
742LX	42"	12"
748LX	48"	12"

*All dimensions listed in inches.*

### STANDARD FEATURES

- Automatic Controls
  - Drawer Debris Screen\*
  - 12 CUFT Bedding Hopper
  - Cabinet Construction - 14 ga 304 SS
  - Clean-out Access Ports
  - Control Cabinet - UL
- Standards compliance can be modified based on customer req.*

### AVAILABLE OPTIONS

- Dust Collection System
- Knock-down Shipment
- Photo-electric Conveyor Stop\*
- Bedding Transfer Connection and Interface\*
- 48" (4'-0') Powered Unload Conveyor\*
- 60" (5'-0') Powered Unload Conveyor - Automation\*

*\*Not applicable to 710LX*

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Spire Integrated Solutions manufactures the LYNX brand of Vivarium Bedding Dispenser equipment.



Freestanding  
**Bedding Dispenser**  
Model 170LX

**Semi-automatic unit designed to dispense bedding materials into two standard mouse boxes simultaneously.**

Model	Workstation Opening <i>W x H</i>	Unit Size <i>W x H x D</i>
710LX	27" x 14"	43" x 93" x 30"

**Features**

- Dispensed bedding volume is adjustable to accommodate various depths and cage sizes.
- Accurate Dispensing
- 15 Cubic Foot Bedding Hopper
- Automatic Bedding Transfer
- Operator Control Panel

**Options**

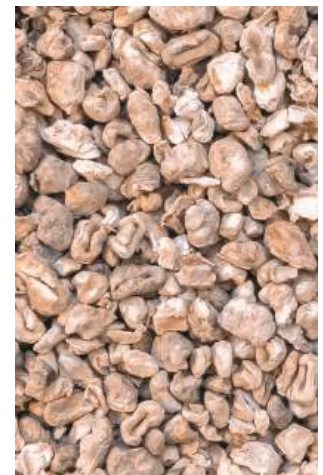
- Stand Alone Dust Collection System
- Integrated Dust Collection System
- Air Compressor
- Seismic Tie-down

**Construction**

The LYNX Brand 710LX Freestanding Bedding Dispensers are a robust design of 304 stainless steel construction.

This ergonomic bedding dispenser is a workstation for two standard mouse or rat cages for automatic bedding filling.

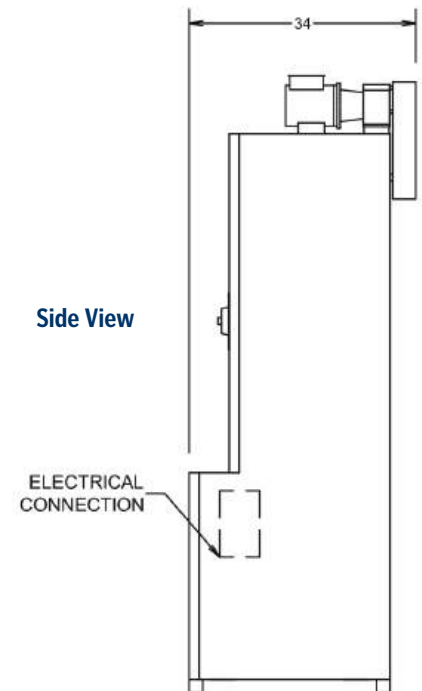
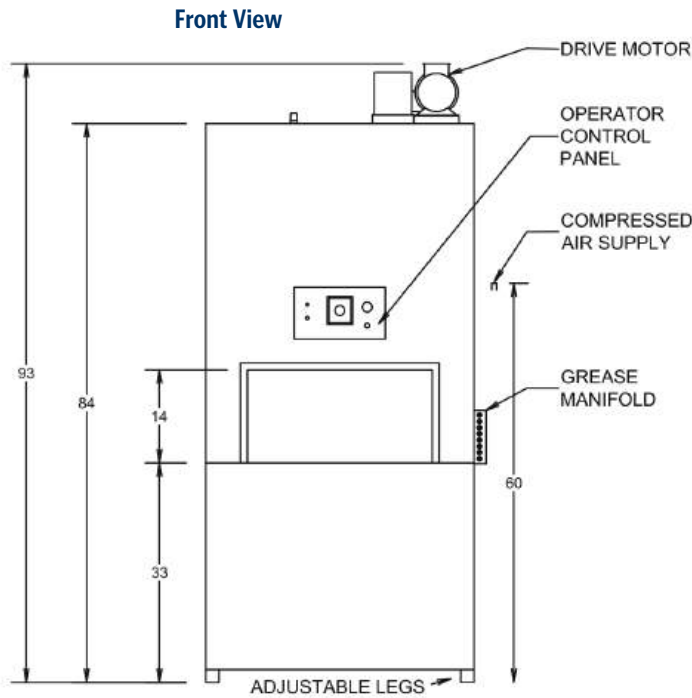
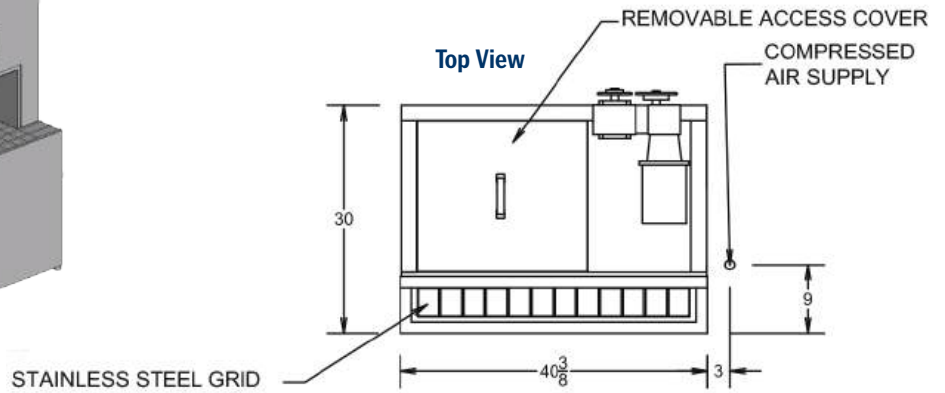
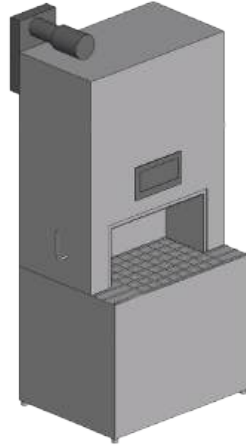
The equipment is designed for free-flowing bedding. Please consult your representative for all other bedding materials.



## Utilities

Electrical (E)	40A-120V, 60Hz
Vent (V)	4" ID Duct, 650 CFM, 3/4" SP (required for non-integrated dust collector option)
Air (A)	1/2" NPT, 80-100 PSI, 2 CFM Flow Rate

## Drawings



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## Conveyorized

# Bedding Dispensers

## Models 724LX - 748LX

Conveyorized units designed to automatically dispense most free flowing bedding materials\*.

Model	Tunnel Opening <i>W x H</i>	Standard Unit Size <i>W x H x D</i>	Tunnel Washer Belt Widths
724LX	30" x 12"	74" x 67" x 96"	24"
730LX	36" x 12"	80" x 67" x 96"	30"
736LX	42" x 12"	86" x 67" x 96"	36"
742LX	48" x 12"	92" x 67" x 96"	42"
748LX	54" x 12"	98" x 67" x 96"	48"



### Features

- Automatic Controls
- Operator Control Panel
- 12 Cubic Foot Bedding Hopper
- 25" Powered Discharge Conveyor
- Load-end Water Collection Tank
- Clean-out Access Ports
- Adjustable Bedding Fill Volume

### Options

- Standard Dust Collection System
- Premium Dust Collection System
- Knock-down Shipment
- Photo-electric Conveyor Stop
- Seismic Tie-down
- 48-96" Powered Discharge Conveyor
- 48-96" Extended Static Roller Conveyor
- Automatic Clean Bedding Hopper Refill Option (Vac or other)
- Bedding Fill Funnel/Transfer System

### Construction

The LYNX brand 700LX Series Bedding Dispensers are constructed of heavy duty 304 stainless steel.

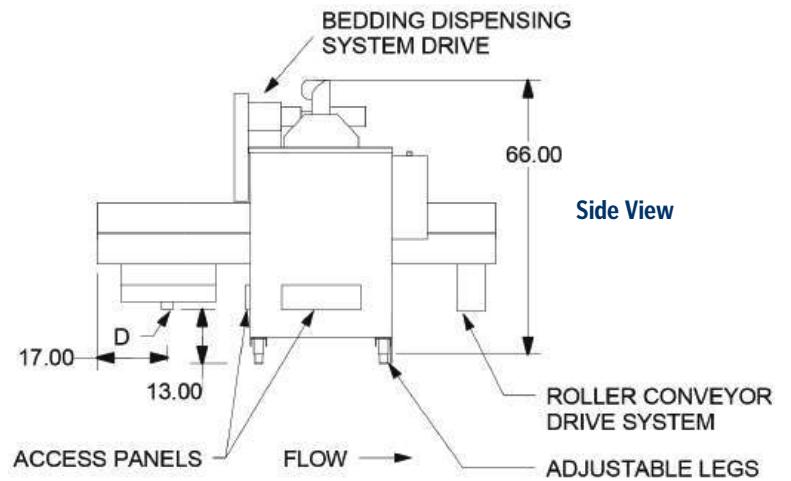
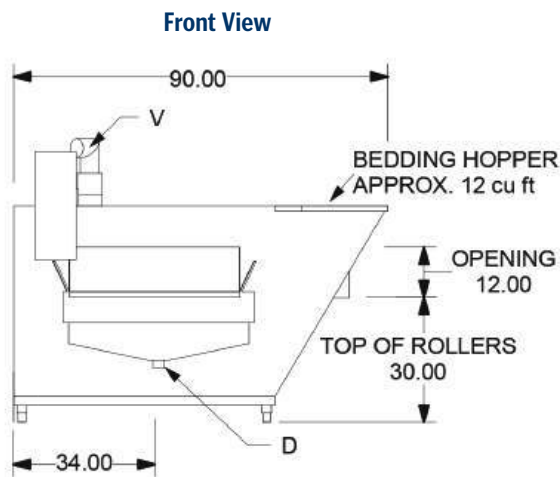
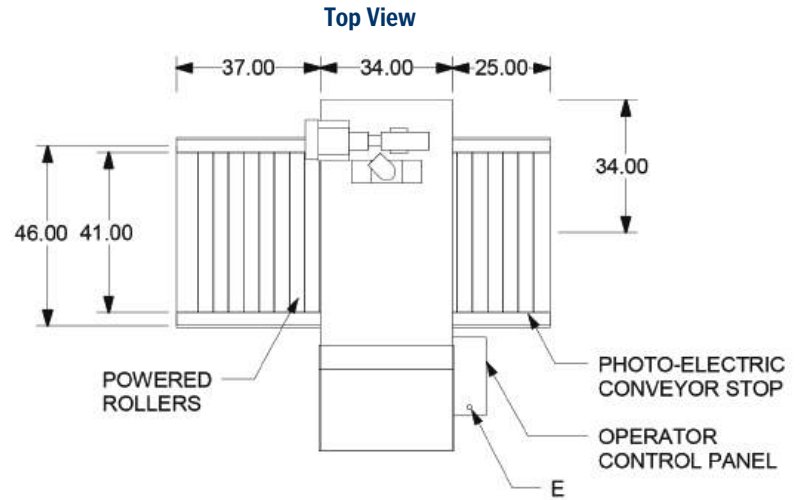
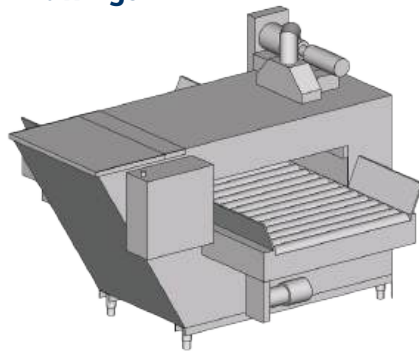
Dispenses free-flowing bedding into a wide variety of mouse and rat type cages as they pass through the tunnel.

Soft, protective rubber coated rollers to safeguard cages as they are being inverted onto the roller conveyor. Left or right hand controls and hopper access.

## Utilities

Electrical (E)	40A-110V
Drain (D)	2" Floor Drain
Vent (V)	4" ID Duct, 650 CFM

## Drawings



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# Cage & Bottle Washers

## MODEL COMPARISON

302LX



310LX  
330LX



320RS  
340RS



320LX  
340LX



**Standard Chamber Size - W x H x D**

**Door Type**

302LX	22 x 32 x 34	Vertical Rise Door
310LX	48 x 32 x 34	Vertical Rise Door
320LX	48 x 32 x 34	Drop-down Door
320RS <sup>1</sup>	45 x 39 x 36	Drop-down Door
330LX	48 x 32 x 48	Vertical Rise Door
340LX	48 x 32 x 48	Drop-down Door
340RS <sup>2</sup>	45 x 39 x 52	Drop-down Door

*All dimensions listed in inches.*

1) 320RS (formerly SCIENTEK SW5100/SW5200)

2) 340RS (formerly SCIENTEK SW5500)

STANDARD FEATURES	LX	RS	AVAILABLE OPTIONS	LX	RS
LYNX IDEC Control System	●		OPTI-Wash™ Water Saving System	●	
LYNX IDEC Control System		●	House Hot Water Heat Exchanger	●	●
Number of Configurable Cycles	12	10	Drain Discharge Cooling - Injected	●	●
180 Recirculated Temp Guarantee	●	●	Tank Cooling - Smart-Cool™ System	●	
Self Cleaning Debris Screen - Tooless	●		Effluent Surge Tank	●	
Self Cleaning Debris Screen - Req Tools		●	Pass-thru Door Interlock System	●	●
7.5 HP Treatment Pump	●	●	Devapourmatic System		●
Spray Delivery System - Oscillating	●		Center Header System	●	
Spray Delivery System - Rotating		●	Center Header Accessory		●
Cabinet Construction - 14 ga 304 SS	●	●	1/3 View Glass Door	●	
Sump and Base - 12 ga 304 SS	●				
Sump and Base - 14 ga 304 SS		●			
Control Cabinet	UL	CSA			

*Standards compliance can be modified based on customer req.*

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# Cage & Bottle Washer

## Model 302LX

Customizable, hydro-spray washers designed for ease of use, minimal maintenance, and high throughput.



Model	Standard Chamber Size	Standard Unit Size
302LX	22" W x 32" H x 34" D	46" W x 80" H x 40.5" D

### Features

- 12 configurable cycles.
- Recirculated water is heated by a stainless steel steam coil to achieve guaranteed treatment temperatures.
- Stainless steel 3 HP treatment pump with a direct read pump pressure gauge.
- Oscillating spray delivery system
- Personnel safety features
- PLC control system with full color HMI touch screen
- Neutralization system
- Automatic self-cleaning screen
- Temperature guarantee

### Construction

- Stainless steel vertical rise door
- Double pane glass window
- Insulated
- Interior illumination
- SS recirculation piping and components
- Incoming utility gauges
- Non-proprietary parts

### Options

- Pass-thru unit
- Right or left hand services
- LYNX OPTI-Wash™ water saving system
- High capacity center header system
- House hot water heat exchanger
- Electric heat system
- LYNX Smart-Cool™ system
- Drain discharge cooling - injected
- Effluent surge tank
- Automatic damper
- Exhaust fan
- Low steam pressure condenser
- Pass-thru door interlock system
- Air compressor
- Integral data collection system
- Printer
- Seismic tie down
- Detergent dispensing systems
- pH neutralization monitoring system
- Direct DI or pure water final rinse
- Barrier wall flange (s)

12 configurable cycles

### Accessories

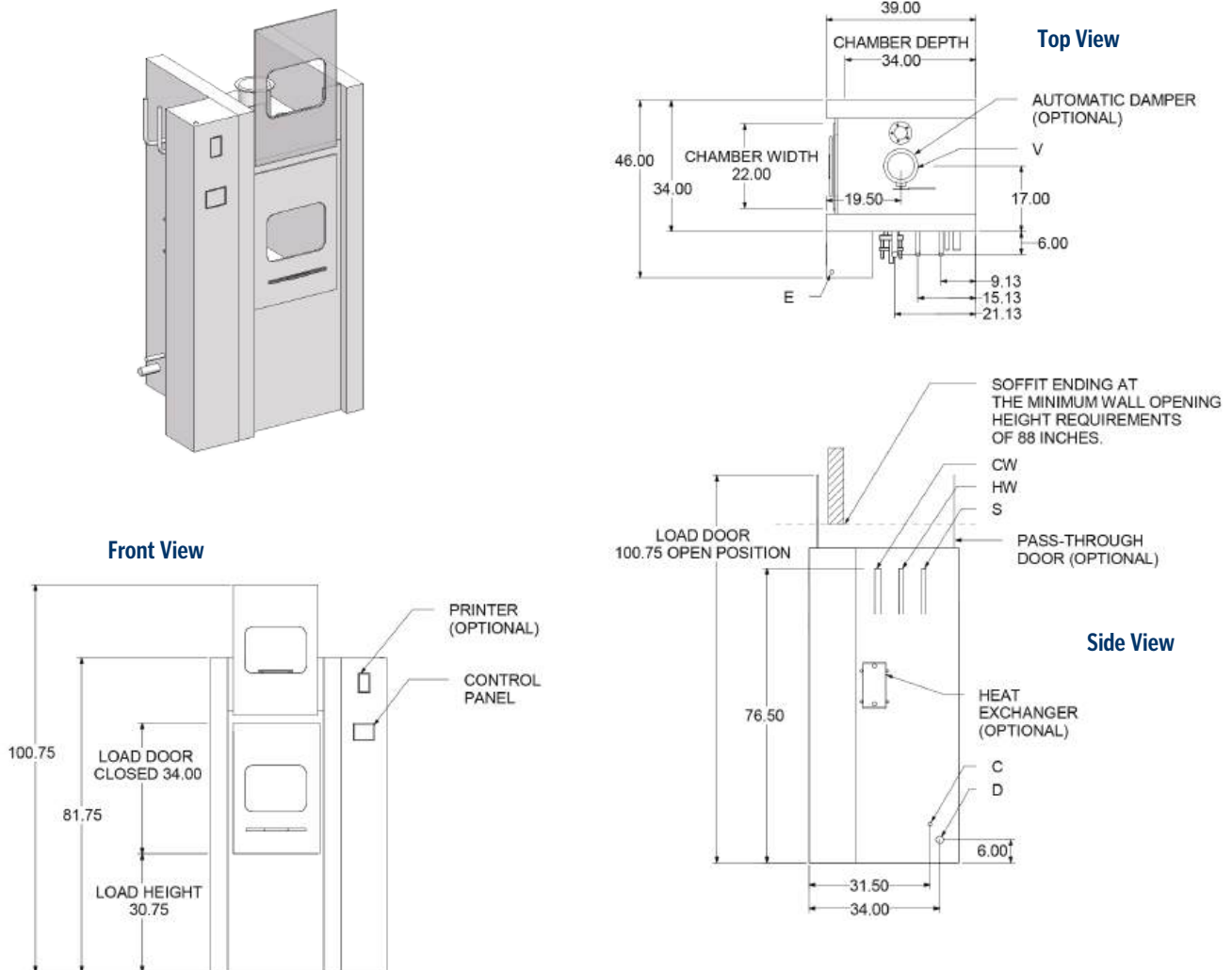
- Cage Wash Rack
- Bottle Wash Rack
- Transfer Cart

## Utilities

<b>Electrical (E)</b>	3-60-208/480V, 5HP
<b>Hot Water (HW)</b>	1" NPT, 35 PSI, 30 GPM @ 140° F ± 5° F
<b>Cold Water (CW)*</b>	1" NPT, 50 PSI, 40 GPM @ 50° F ± 5° F
<b>Steam (S)</b>	1½" NPT, 45-80 PSI, 350-600 #/Hr Flow Rate
<b>Condensate (C)</b>	1" NPT
<b>Air (A)</b>	½" NPT, 80-100 PSI, 2-4 CFM Flow Rate
<b>Drain (D)</b>	4" Floor Drain ( <i>minimum</i> ), 90 GPM Flow Rate
<b>Vent (V)</b>	6" ID Duct, 200 CFM, Saturated Vapor @ 190° F

\*CW - Required if drain discharge cool-down package ordered  
Washers can be designed to any size to meet your application requirements.

## Drawings



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Spire Integrated Solutions manufactures the LYNX brand of Vivarium Washing equipment.

# Cage & Bottle Washers

## Model 310LX | 330LX

Customizable, hydro-spray washers designed for ease of use, minimal maintenance, and high throughput.



12 configurable cycles

Model	Standard Chamber Size	Standard Unit Size
310LX	48" W x 32" H x 34" D	72" W x 82" H x 39" D
330LX	48" W x 32" H x 48" D	72" W x 82" H x 52.5" D

### Features

- 12 configurable cycles
- Vertical rise sliding door
- Oscillating spray delivery system
- Recirculated water is heated by a stainless steel steam coil to achieve guaranteed treatment temperatures.
- Stainless steel 7.5 HP treatment pump with a direct read pump pressure gauge.
- Personnel safety features
- PLC control system with color HMI Touch Screen
- Neutralization system
- Automatic self-cleaning Screen
- Temperature guarantee
- Incoming utility gauges

### Construction

- Stainless steel vertical rise door
- Double pane glass window
- Insulated
- Interior illumination
- Stainless steel recirculation piping and components

### Options

- Pass-thru unit
- Right or left hand services
- LYNX OPTI-Wash™ water saving system
- High capacity center header system
- House hot water heat exchanger
- Electric heat system
- LYNX Smart-Cool™ system
- Drain discharge cooling - Injected
- Effluent surge tank
- Automatic damper
- Exhaust fan
- Low steam pressure package
- Non-vented, vapor condenser
- Pass-thru door interlock system
- Air compressor
- Integral data collection system
- Printer
- Seismic tie down
- Detergent dispensing systems
- pH neutralization monitoring system
- Direct DI or pure water final rinse
- Barrier wall flange(s)

### Accessories

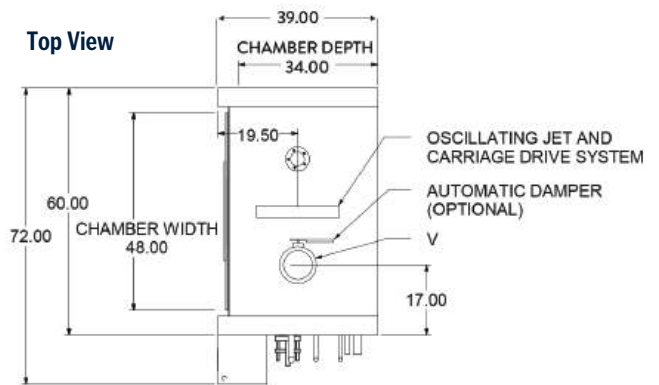
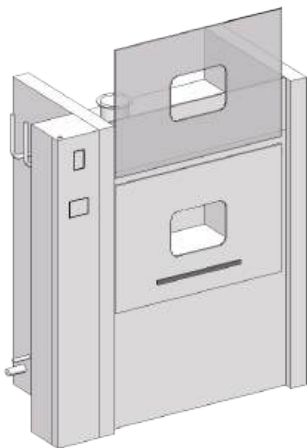
- Cage wash rack
- Bottle wash rack
- Transfer cart

**Utilities**

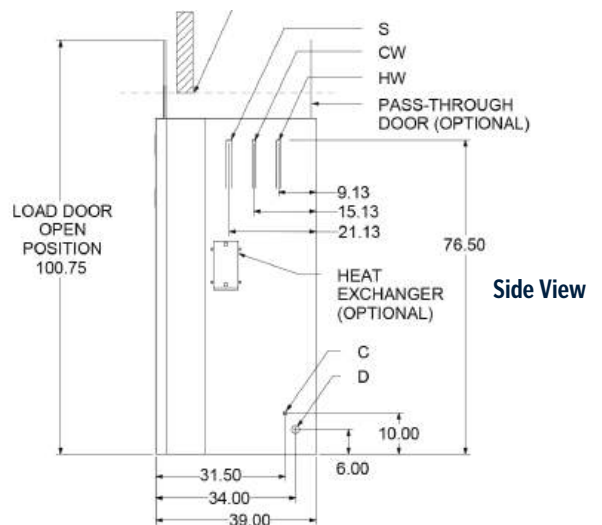
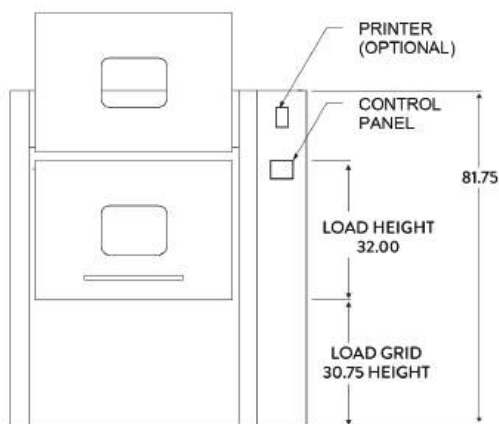
Electrical (E)	3-60-208/480V, 9HP
Hot Water (HW)	1" NPT, 35 PSI, 30 GPM @ 140° F ± 5° F
Cold Water (CW)*	1" NPT, 50 PSI, 40 GPM @ 50° F ± 5° F
Steam (S)	1½" NPT, 45-80 PSI, 350-600 #/Hr Flow Rate
Condensate (C)	1" NPT
Air (A)	½" NPT, 80-100 PSI, 2-4 CFM Flow Rate
Drain (D)	4" Floor Drain ( <i>minimum</i> ), 90 GPM Flow Rate
Vent (V)	8" ID Duct, 200 CFM, Saturated Vapor @ 190° F

\*CW - Required if drain discharge cool-down package ordered  
Washers can be designed to any size to meet your application requirements.

**Drawings**



**Front View**



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# Cage & Bottle Washers

## Model 320LX | 340LX

Hydro-spray washers designed for ease of use, minimal maintenance, and highest cleanability of caging, bottles, debris pans, and other items.



Model	Standard Chamber Size	Standard Unit Size
320LX	48" W x 32" H x 34" D	72" W x 82" H x 40" D
340LX	48" W x 32" H x 48" D	72" W x 82" H x 58" D

### Features

- Drop-down Door
- Oscillating Spray Delivery System
- Personnel Safety Features
- PLC Control System with Full Color HMI Touch Screen
- 12 Configurable Cycles
- Neutralization System
- Automatic Self-cleaning Screen
- Temperature Guarantee
- Insulated Construction
- Incoming Utility Gauges
- Interior Illumination
- SS Recirculation Piping and Components
- Non-proprietary parts

### Construction

The LYNX brand 320LX and 340LX Cage and Bottle Washers are provided with an all stainless steel drop-down door with a double pane glass window.

Recirculated water is heated by a stainless steel steam coil to achieve guaranteed treatment temperatures. Unit is provided with a stainless steel 7½ HP treatment pump with a direct read pump pressure gauge.

### Options

- Pass-thru Unit
- Right or Left Hand Services
- LYNX OPTI-Wash™ Water Saving System
- High Capacity Center Header System
- House Hot Water Heat Exchanger
- Electric Heat System
- LYNX Smart-Cool™ System
- Drain Discharge Cooling - Injected
- Effluent Surge Tank
- Automatic Damper
- Exhaust Fan
- Low Steam Pressure Package
- Non-vented Vapor Condenser
- Pass-thru Door Interlock System
- Air Compressor
- Integral Data Collection System
- Printer
- Seismic Tie Down
- Detergent Dispensing Systems
- pH Neutralization Monitoring System
- Direct DI or pure water final rinse
- Barrier Wall Flange(s)

### Accessories

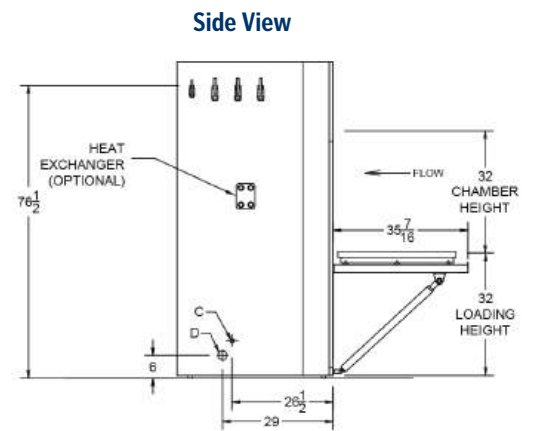
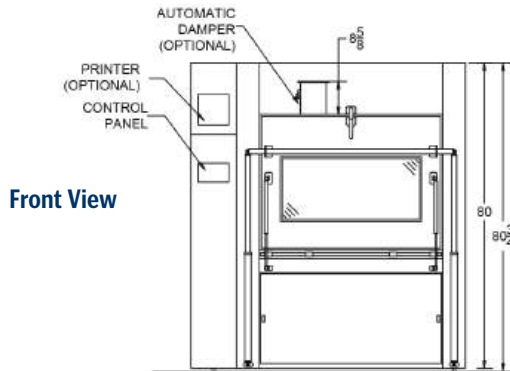
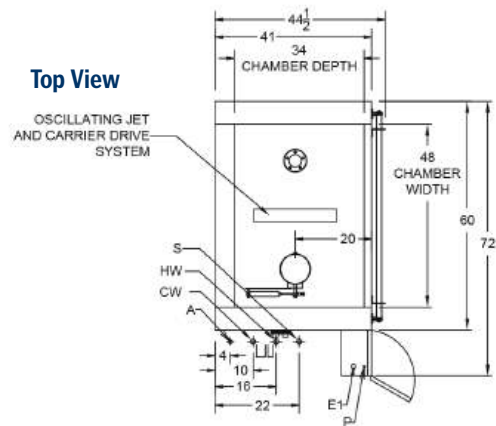
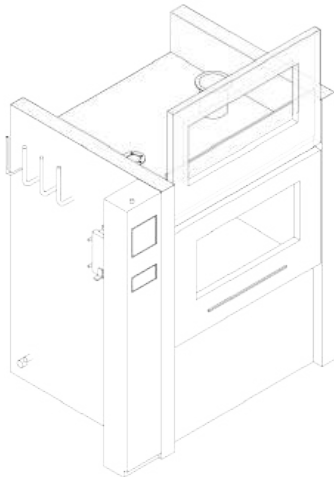
- Cage Wash Rack
- Bottle Wash Rack
- Transfer Cart

## Utilities

<b>Electrical (E)</b>	3-60-208/480V, 9HP
<b>Hot Water (HW)</b>	1" NPT, 35 PSI, 30 GPM @ 140° F ± 5° F
<b>Cold Water (CW)*</b>	1" NPT, 50 PSI, 40 GPM @ 50° F ± 5° F
<b>Steam (S)</b>	1½" NPT, 45-80 PSI, 350-600 #/Hr Flow Rate 1" NPT ½"
<b>Condensate (C)</b>	NPT, 80-100 PSI
<b>Air (A)</b>	2-4 CFM Flow Rate
<b>Drain (D)</b>	4" Floor Drain ( <i>minimum</i> ), 90 GPM Flow Rate 8"
<b>Vent (V)</b>	ID Duct, 200 CFM, Saturated Vapor @ 190° F

\*CW - Required if drain discharge cool-down package ordered

## Drawings



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# Cage & Bottle Washers

## Model 320RS | 340RS

Hydro-spray washers designed for ease of use, minimal maintenance, and highest cleanability of caging, bottles, debris pans, and other items.

Model	Standard Chamber Size	Standard Unit Size
320RS <sup>1</sup>	45" W x 39" H x 36" D	70" W x 73" H x 42" D
340RS <sup>2</sup>	45" W x 39" H x 52" D	70" W x 73" H x 58" D

### Features

- Drop-down Door
- Rotating Spray Delivery System
- Personnel Safety Features
- PLC Control System with Full Color HMI Touch Screen
- 10 Configurable Cycles
- Neutralization System
- Automatic Self-cleaning Screen
- Temperature Guarantee
- Insulated Construction
- Incoming Utility Gauges
- Interior Illumination
- SS Recirculation Piping and Components
- Non-proprietary Parts

### Construction

The LYNX Brand 320RS and 340RS Cage and Bottle Washers are provided with an all stainless steel drop-down door with glass window.

Recirculated water is heated by a stainless steel steam coil to achieve guaranteed treatment temperatures.

Unit is provided with a stainless steel 7½ HP treatment pump with a direct read pump pressure gauge.

### Options

- Pass-thru Unit
- Right or Left Hand Services
- House Hot Water Heat Exchanger
- Electric Heat System
- Drain Discharge Cooling - Injected
- Automatic Damper
- Exhaust Fan
- Low Steam Pressure Package
- Devapourmatic System (no exterior exhaust)
- Pass-thru Door Interlock System
- Air Compressor
- Integral Data Collection System
- Printer
- Seismic Tie Down
- Detergent Dispensing Systems
- pH Neutralization Monitoring System
- Direct DI or pure water final rinse
- Barrier Wall Flange(s)

### Accessories

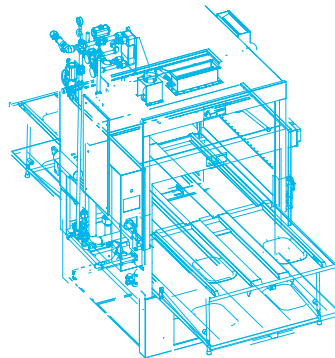
- High Capacity Center Header System (accessory)
- Cage Wash Rack
- Bottle Wash Rack
- Transfer Cart

## Utilities

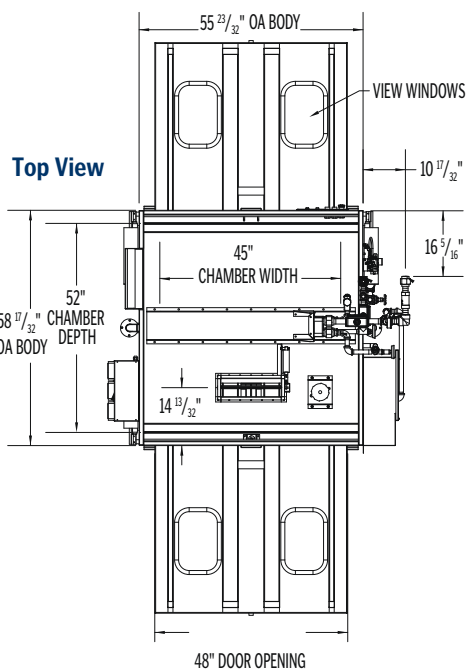
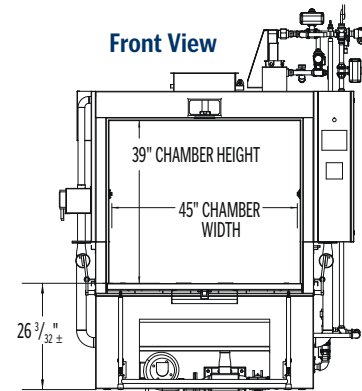
Electrical (E)	3-60-208/480/600V, 10 HP
Hot Water (HW)	1" NPT, 35 PSI, 25 GPM @ 120° F ± 5° F
Cold Water (CW)*	¾" NPT, 35 PSI, 25 GPM @ 50° F ± 5° F
Steam (S)	1" NPT, 60 PSI, Dynamic ± 5 PSI, 350-600 #/Hr Flow Rate ¾" NPT
Condensate (C)	¼" NPT, 80-100 PSI
Air (A)	1-2 CFM Flow Rate
Drain (D)	4" Floor Drain ( <i>minimum</i> ), 90 GPM Flow Rate
Vent (V)	15" x 4½" Duct, 400 CFM, Saturated Vapor @ 190° F

\*CW - Required if drain discharge cool-down package ordered

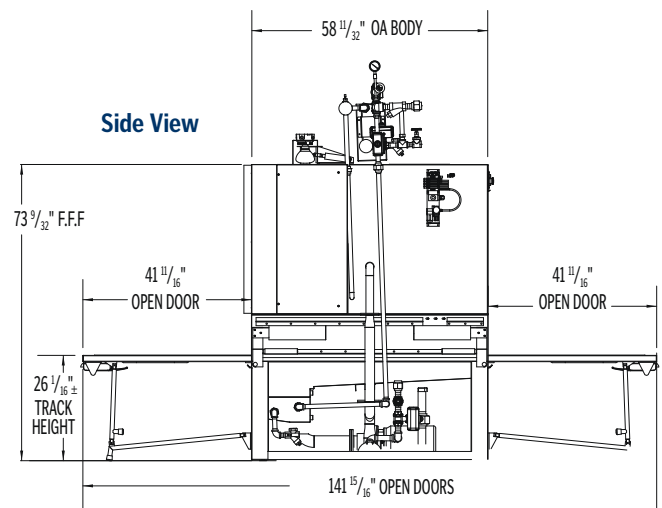
## Drawings



Front View



Side View



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# Cage & Rack Washers

## MODEL COMPARISONS

410LX

420LX

430LX



410RS

420RS

430RS



450LX



450RS



455LX



	Standard Chamber Size - W x H x D	Avail. Door Widths	Avail. Door Heights	Avail. Chamber Lengths
410LX	46 x 85 x 92	36, 46, 48, 54	85, 88, 93, 96	85, 88, 92, 104, 111, 116, 122
410RS <sup>1</sup>	48 x 88 x 96	36, 42, 46, 48	74, 82, 88	80, 82, 90, 100, 102, 108
420LX	46 x 85 x 141	36, 46, 48, 54	85, 88, 93, 96	135, 141, 146
420RS <sup>2</sup>	48 x 88 x 128	36, 42, 46, 48	74, 82, 88	120, 132
430LX	46 x 85 x 188	36, 46, 48, 54	85, 88, 93, 96	152, 164, 170, 176, 188+
430RS <sup>3</sup>	48 x 88 x 188	42, 46, 48, 54	74, 82, 88	154, 164, 170, 188
450LX	72 x 85 x 141	60, 72, 84	85, 88, 93, 96	All 85-188+
450RS <sup>4</sup>	68 x 88 x 128	62, 68, 74, 84	88, 90, 93, 96	109, 128, 140, 150, 160, 165
455LX	Dual 46 x 85 x 92	36, 46, 48, 54	85, 88, 93, 96	All 85-188+

OPTIONAL SIZES

All dimensions listed in inches.

- 1) 410RS (formerly SCIENTEK SW6100/6200/6300)
- 2) 420RS (formerly SCIENTEK SW6700)
- 3) 430RS (formerly SCIENTEK SW6900)
- 4) 450RS (formerly SCIENTEK SW6700W)

STANDARD FEATURES	LX	RS
LYNX IDEC Control System	●	
Allen Bradley Controls MicroLogix		●
Number of Configurable Cycles	12	10
180 Recirculated Temp Guarantee	●	●
Self Cleaning Debris Screen - Toolless	●	
Self Cleaning Debris Screen - Req Tools		●
10 HP Treatment Pump - Horizontal	●	
10 HP Treatment Pump - Vertical		●
Spray Delivery System - Oscillating	●	
Spray Delivery System - Rotating		●
Cabinet Construction - 14 ga 304 SS	●	
Cabinet Construction - 16 ga 304 SS		●
Control Cabinet	UL	CSA
1/3 View Glass Door	●	

Standards compliance can be modified based on customer req.

AVAILABLE OPTIONS	LX	RS
Shallow Base Unit (6")	●	●
House Hot Water Heat Exchanger	●	●
Automatic Water Rack Flush System	●	●
Pass-Thru Door Interlock System	●	●
Bottle (Accessory) Wash System	●	●
RUTA Alkaline Tank - Heated or Non	●	●
RUTA Acid Tank - Heated or Non	●	
Heated Rinse Tank		●
OPTI-Wash™ Water Saving System	●	
Drain Discharge Cooling - Injected	●	●
Drain Discharge Cooling - Side Tank	●	●
Tank Cooling - Smart-Cool™ System	●	
Automatic Inclined Floor Grating	●	
Integrated Pan Wash System	●	
Steam Heated Dryer System	●	
Active Sealed Door		●
Port-View Door Window	●	●

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Spire Integrated Solutions manufactures the LYNX brand of Vivarium Washing equipment.



# Cage & Rack Washer

## Model 410LX

Hydro-spray washers designed for ease of use, minimal maintenance, and highest cleanability of caging, bottles, racks, debris pans, and other items.

Model	Standard Chamber Size W x H x D (inches)	Standard Unit Size W x H x D (inches)	Opt. Door Widths (inches)	Opt. Door Heights (inches)	Opt. Chamber Lengths (inches)
410LX	46 x 85 x 92	89 x 104 x 93-130	36, 48, 54	88, 93, 96	85, 88, 104, 111, 116, 122

Washers can be designed to any size to meet your application requirements.

### Features

- Heavy-duty Hinge Door
- 1/3rd size viewing glass on door
- Modular construction
- Knock-down shipment
- Oscillating spray delivery system
- Personnel safety features
- LYNX IDEC controls system
- Full color HMI touch screen
- 12 configurable cycles
- Neutralization system
- Automatic self-cleaning screen
- Temperature guarantee
- Insulated construction
- Incoming utility gauges
- Interior illumination
- SS recirculation piping and components
- Recirculated water is heated by a stainless steel steam coil to achieve guaranteed treatment temperatures.
- (2) stainless steel 10 HP treatment pumps with direct read pump pressure gauges.
- Non-proprietary parts

### Construction

- Cabinet Construction - 14 ga 304 SS
- 46" wide standard door

### Options

- Shallow Base Unit (6")
- Pit or Floor Mounted
- Pass-thru Unit
- Right or Left Hand Services
- LYNX OPTI-Wash™ Water Saving System
- Re-usable Throwaway Alkaline and/or Acid Tank
- Heated Rinse Tank
- House Hot Water Heat Exchanger
- Electric Heat System
- Integral Data Collection System
- LYNX Smart-Cool™ System
- Drain Discharge Cooling-Injected/Tank
- Automatic Damper
- SS Exhaust Fan
- Low Steam Pressure Package
- Pass-thru Door Interlock System
- Air Compressor
- Printer
- Seismic Tie Down
- Detergent Dispensing Systems
- pH Neutralization System
- Feeder Bottle Washing System
- Integrated Pan Wash System
- Automatic Water Rack Flush System

- 36"-54" Door Widths
- Active Door Seal
- Utility Enclosure Panels
- Inclined Floor Grating
- Automatic Inclined Floor Grating
- Steam Heated Dryer System
- Barrier Wall Flange(s)
- Split Base for Special Entry
- Port-view Door Window

### Accessories

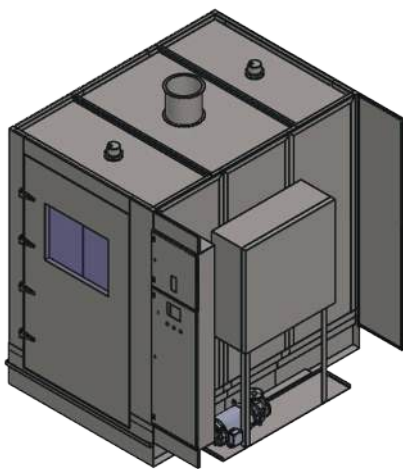
- Floor Ramps
- Bottle Wash Cart
- Universal Cage Wash Cart

## Utilities

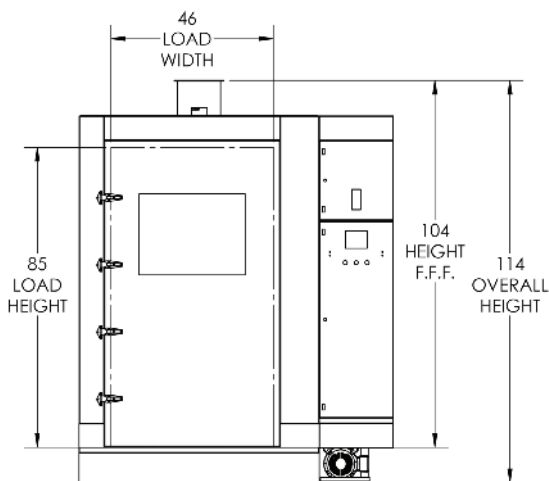
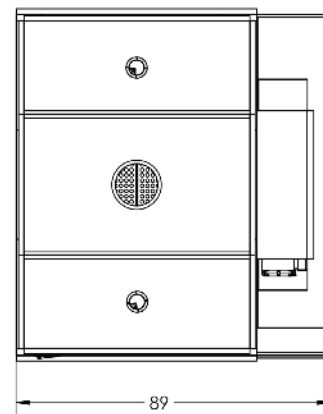
<b>Electrical (E) Hot</b>	3-60-208/480V, 12HP
<b>Water (HW) Cold</b>	1½" NPT, 35 PSI, 50 GPM @ 140° F ± 5° F (40 gallon sump capacity) 1½" NPT, 35 PSI,
<b>Water (CW)*</b>	60 GPM @ 50° F ± 5° F
<b>Steam (S)</b>	2" NPT, 45-80 PSI, Dynamic ± 5 PSI, 800-1200 #/Hr Flow Rate
<b>Condensate (C)</b>	1" NPT
<b>Air (A)</b>	½" NPT, 80-100 PSI, 4-6 CFM Flow Rate
<b>Drain (D)</b>	12" x 12" Floor Sink with 4" Floor Drain ( <i>minimum</i> ), 180 GPM Flow Rate
<b>Vent (V)</b>	12" ID Duct, 750 CFM, Saturated Vapor @ 190° F

\*CW - Required if drain discharge cool-down package ordered

## Drawings

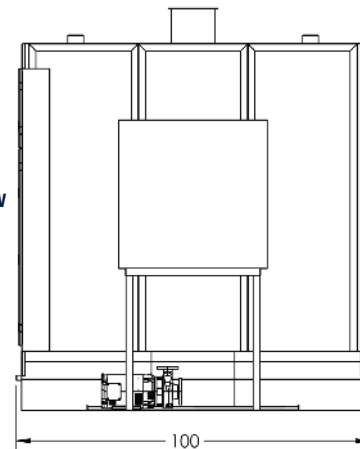


Top View



Front View

Side View



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Spire Integrated Solutions manufactures the LYNX brand of Vivarium Washing equipment.



# Cage & Rack Washer

## Model 410RS

Customizable, hydro-spray washers designed for ease of use, minimal maintenance, and highest cleanability of caging, bottles, racks, debris pans, and other items.

Model	Standard Chamber Size <i>W x H x D</i>	Standard Unit Size <i>W x H x D</i>	Opt. Door Widths	Opt. Door Heights	Opt. Chamber Lengths
410RS	48" x 88" x 96"	88" x 95" x 98"-116"	36", 42", 46"	74", 82"	90", 100", 108"

*Washers can be designed to any size to meet your application requirements.*

### Features

- Heavy-duty hinge door
- Heavy-duty stainless steel door with port view glass window.
- Modular construction
- Recirculated water is heated by a stainless steel steam coil to achieve guaranteed treatment temperatures.
- 10 HP treatment pump with a direct read pump pressure gauge.
- Knock-down shipment
- Rotating spray delivery system
- Personnel safety features
- Allen Bradley Controls MicroLogix PLC System
- Full color HMI touch screen
- 10 configurable cycles
- Automatic self-cleaning screen
- Temperature guarantee
- Insulated construction
- Incoming utility gauges
- Interior illumination
- SS recirculation piping and components
- Non-proprietary parts

### Options

- Shallow Base Unit (6")
- Pit or Floor Mounted
- Pass-thru Unit
- Right or Left Hand Services
- Re-usable Throwaway Alkaline Tank
- House Hot Water Heat Exchanger
- Integral Data Collection System
- Drain Discharge Cooling
- Automatic Damper
- SS Exhaust Fan
- Low Steam Pressure Package
- Pass-thru Door Interlock System
- Air Compressor
- Printer
- Seismic Tie Down
- Detergent Dispensing Systems
- pH Neutralization System
- Feeder Bottle Washing System
- Automatic Water Rack Flush System
- Split Base for Special Entry
- Utility Enclosure Panels
- Inclined Floor Grating
- Barrier Wall Flange(s)

### Accessories

- Floor Ramps
- Bottle Wash Cart
- Universal Cage Wash Cart
- High Capacity Cage Wash System

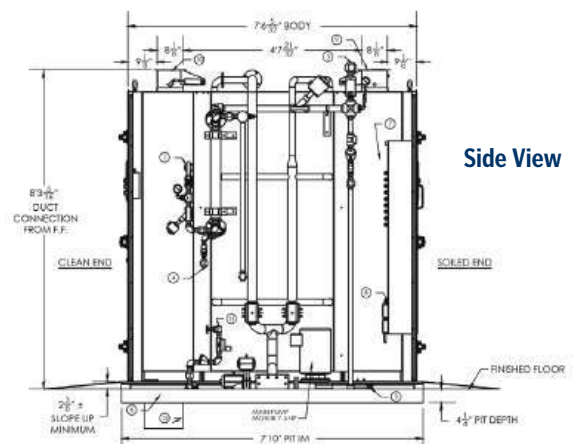
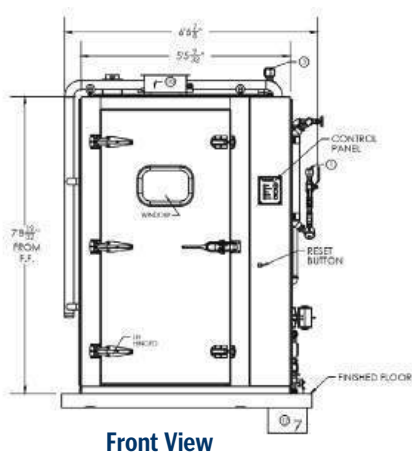
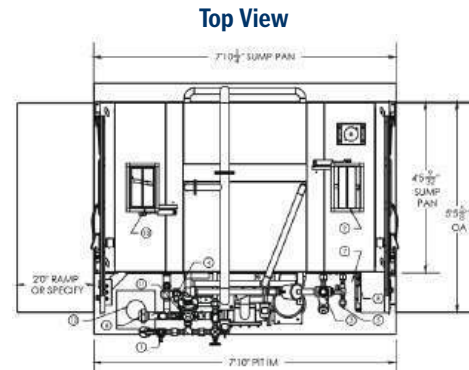
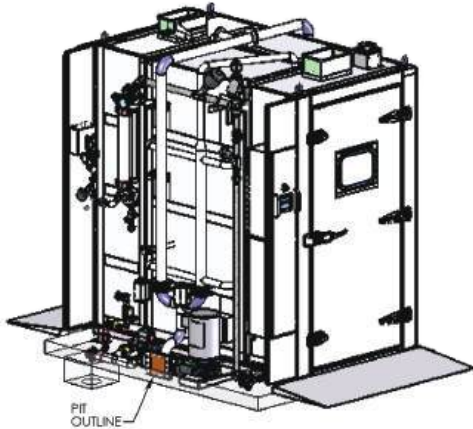
### Construction

- Cabinet Construction - 16 ga 304 SS

## Utilities

<b>Electrical (E)</b>	3-60-208/480/600V, 12HP
<b>Hot Water (HW)</b>	1" NPT, 35 PSI, 25 GPM @ 140° F ± 5° F (65 gallon sump capacity)
<b>Cold Water (CW)*</b>	1" NPT, 35 PSI, 25 GPM @ 50° F ± 5° F
<b>Steam (S)</b>	1½" NPT, 40-60 PSI, Dynamic ± 5 PSI, 450-600 #/Hr Flow Rate
<b>Condensate (C)</b>	¾" NPT
<b>Air (A)</b>	¼" NPT, 80-100 PSI, 1-2 CFM Flow Rate
<b>Drain (D)</b>	12" x 12" Floor Sink with 4" Floor Drain ( <i>minimum</i> ), 180 GPM Flow Rate
<b>Vent (V)</b>	8" x 13" Duct, Saturated Vapor @ 190° F, 1 DC (1200 CFM) + 1 IDC (500 CFM)

## Drawings



*Washers can be customized to any size to meet your application requirements.*

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Spire Integrated Solutions manufactures the LYNX brand of Vivarium Washing equipment.



# Cage & Rack Washer

## Model 420LX

Customized to your Vivarium's needs ensuring efficient cleaning for all your animal care items.

Model	Standard Chamber Size <i>W x H x D</i>	Standard Unit Size <i>W x H x D</i>	Opt. Door Widths	Opt. Door Heights	Opt. Chamber Lengths
420LX	46" x 85" x 141"	84" x 104" x 149"	36", 48", 54"	88", 93", 96"	135", 146"

*Washers can be customized to any size to meet your application requirements.*

### Features

- Pit or Floor mounted
- Heavy-duty hinge door
- 1/3rd size viewing glass on door
- Modular construction
- Knock-down shipment
- Oscillating spray delivery system
- Personnel safety features
- LYNX IDEC controls system
- Full color HMI touch screen
- 12 configurable cycles
- Neutralization system
- Automatic self-cleaning screen
- Temperature guarantee
- Insulated construction
- Incoming utility gauges
- Interior illumination
- SS recirculation piping and components
- Recirculated water is heated by a stainless steel steam coil to achieve guaranteed treatment temperatures.
- (2) stainless steel 10 HP treatment pumps with direct read pump pressure gauges.
- Non-proprietary parts

### Options

- Shallow Base Unit (6")
- Pit or Floor Mounted
- Pass-thru Unit
- Right or Left Hand Services
- LYNX OPTI-Wash™ Water Saving System
- Re-usable Throwaway Alkaline and/or Acid Tank
- Heated Rinse Tank
- House Hot Water Heat Exchanger
- Electric Heat System
- Integral Data Collection System
- LYNX Smart-Cool™ System
- Drain Discharge Cooling -Injected/ Tank
- Automatic Damper
- SS Exhaust Fan
- Low Steam Pressure Package
- Pass-thru Door Interlock System
- Air Compressor
- Printer
- Seismic Tie Down
- Detergent Dispensing Systems
- pH Neutralization System
- Feeder Bottle Washing System

- Integrated Pan Wash System
- Automatic Water Rack Flush System
- Split Base for Special Entry
- Port-view Door Window
- 36"-54" Door Widths
- Active Door Seal
- Utility Enclosure Panels
- Inclined Floor Grating
- Automatic Inclined Floor Grating
- Steam Heated Dryer System
- Barrier Wall Flange(s)

### Accessories

- Floor Ramps
- Modular Walls
- Bottle Wash Cart
- Universal Cage Wash Cart

### Inventory

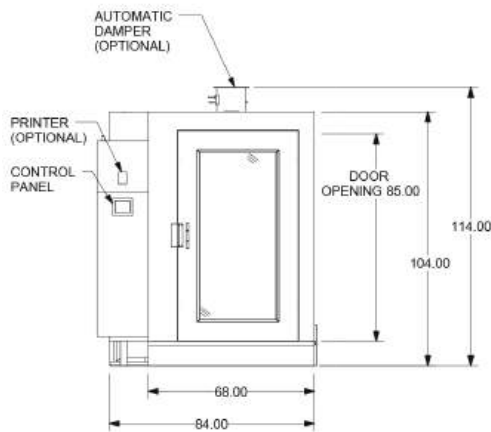
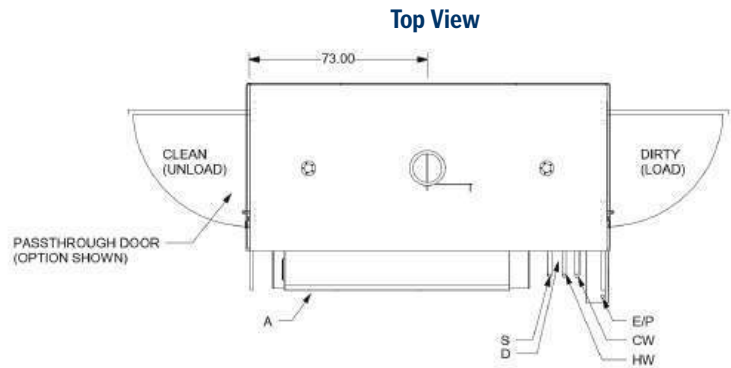
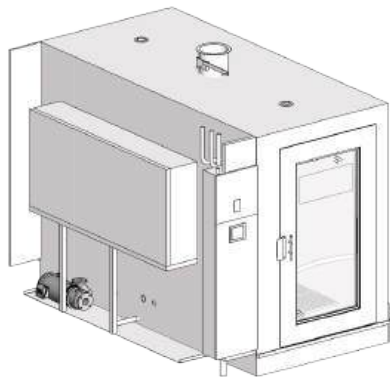
- Cabinet Construction - 14 ga 304 SS
- 46" wide standard door

## Utilities

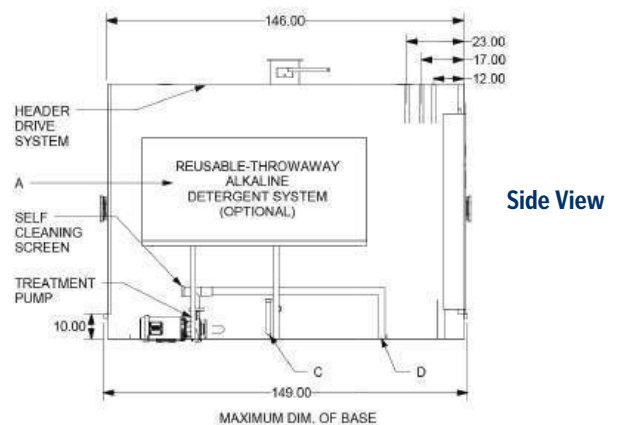
<b>Electrical (E)</b>	3-60-208/480V, 17HP
<b>Hot Water (HW)</b>	1½" NPT, 35 PSI, 50 GPM @ 140° F ± 5° F (40 gallon sump capacity)
<b>Cold Water (CW)*</b>	1½" NPT, 35 PSI, 60 GPM @ 50° F ± 5° F
<b>Steam (S)</b>	2" NPT, 45-80 PSI, Dynamic ± 5 PSI, 800-1200 #/Hr Flow Rate
<b>Condensate (C)</b>	1" NPT
<b>Air (A)</b>	½" NPT, 80-100 PSI, 4-6 CFM Flow Rate
<b>Drain (D)</b>	12" x 12" Floor Sink with 4" Floor Drain ( <i>minimum</i> ), 180 GPM Flow Rate
<b>Vent (V)</b>	12" ID Duct, 750 CFM, Saturated Vapor @ 190° F

\*CW - Required if drain discharge cool-down package ordered

## Drawings



Front View



Side View

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Spire Integrated Solutions manufactures the LYNX brand of Vivarium Washing equipment.



# Cage & Rack Washer

## Model 420RS

Ensuring efficient cleaning & customized to your Vivarium's needs to clean all your animal care items.

Model	Standard Chamber Size W x H x D	Standard Unit Size W x H x D	Opt. Door Widths	Opt. Door Heights	Opt. Chamber Lengths
420RS	48" x 88" x 128"	62.75" x 95" x 132"	36", 42", 46"	74", 82"	120"

Washers can be customized to any size to meet your application requirements.

### Features

- Heavy-duty Hinge Door
- Heavy-duty stainless steel door with port view glass window.
- Modular construction
- Knock-down shipment
- Rotating spray delivery system
- Personnel safety features
- Allen Bradley Controls MicroLogix PLC System
- Full color HMI touch screen
- 10 configurable cycles
- 15 HP treatment pump with a direct read pump pressure gauge.
- Neutralization system
- Automatic self-cleaning screen
- Recirculated water is heated by a stainless steel steam coil to achieve guaranteed treatment temperatures.
- Insulated construction
- Incoming utility gauges
- Interior illumination
- SS recirculation piping and components
- Non-proprietary Parts

### Options

- Shallow Base Unit (6")
- Pit or Floor Mounted
- Pass-thru Unit
- Right or Left Hand Services
- Re-usable Throwaway Alkaline Tank
- House Hot Water Heat Exchanger
- Integral Data Collection System
- Drain Discharge Cooling
- Automatic Damper
- SS Exhaust Fan
- Low Steam Pressure Package
- Pass-thru Door Interlock System
- Air Compressor
- Printer
- Seismic Tie Down
- Detergent Dispensing Systems
- pH Neutralization System
- Feeder Bottle Washing System
- Automatic Water Rack Flush System
- Split Base for Special Entry
- Utility Enclosure Panels
- Inclined Floor Grating
- Barrier Wall Flange(s)

### Accessories

- Floor Ramps
- Bottle Wash Cart
- Universal Cage Wash Cart
- High Capacity Cage Wash System

### Construction

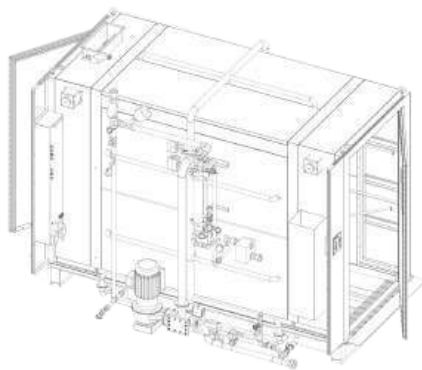
- Cabinet Construction - 16 ga 304 SS

## Utilities

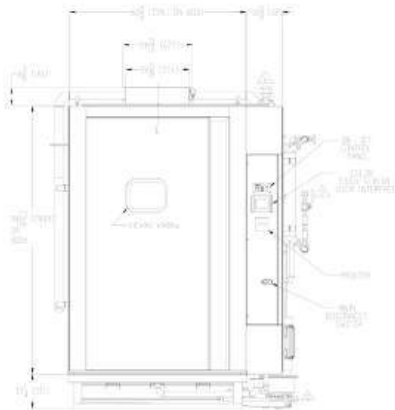
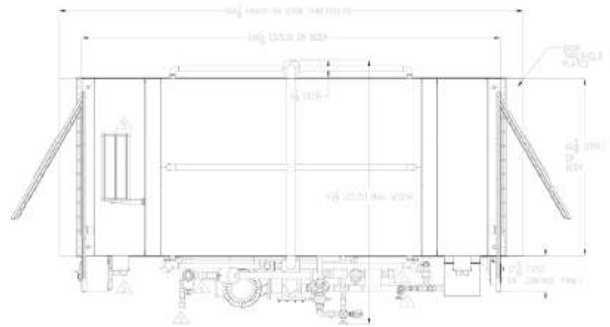
<b>Electrical (E)</b>	3-60-208/480/600V, 20HP
<b>Hot Water (HW)</b>	1" NPT, 35 PSI, 25 GPM @ 140° F ± 5° F (45 gallon sump capacity)
<b>Cold Water (CW)*</b>	1" NPT, 35 PSI, 25 GPM @ 50° F ± 5° F
<b>Steam (S)</b>	2½" NPT, 40-60 PSI, Dynamic ± 5 PSI, 450-600 #/Hr Flow Rate
<b>Condensate (C)</b>	1½" NPT
<b>Air (A)</b>	¼" NPT, 80-100 PSI, 1-2 CFM Flow Rate
<b>Drain (D)</b>	12" x 12" Floor Sink with 4" Floor Drain ( <i>minimum</i> ), 180 GPM Flow Rate
<b>Vent (V)</b>	22" x 24" Duct, 1200 CFM, Saturated Vapor @ 190° F

*\*CW - Required if drain discharge cool-down package ordered*

## Drawings

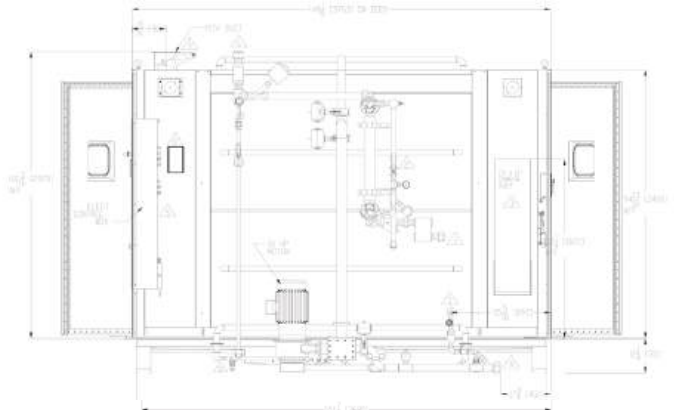


Top View



Front View

Side View



*Washers can be designed to any size to meet your application requirements.*

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Spire Integrated Solutions manufactures the LYNX brand of Vivarium Washing equipment.



# Cage & Rack Washer

## Model 430LX

Customizable, hydro-spray washers designed for ease of use, minimal maintenance, and highest cleanability.

Model	Standard Chamber Size <i>W x H x D</i>	Standard Unit Size <i>W x H x D</i>	Opt. Door Widths	Opt. Door Heights	Opt. Chamber Lengths
430LX	46" x 85" x 188"	89" x 104" x 196"	36", 48", 54"	88", 93", 96"	152", 164", 170", 176", 188"+

### Features

- Pit mounted
- Heavy-duty hinge door
- 1/3rd size viewing glass on door
- Modular construction
- Knock-down shipment
- Oscillating spray delivery system
- Personnel safety features
- LYNX IDEC controls system
- Full color HMI touch screen
- 12 configurable cycles
- Neutralization system
- Automatic self-cleaning screen
- Temperature guarantee
- Insulated construction
- Incoming utility gauges
- Interior illumination
- SS recirculation piping and components
- Recirculated water is heated by a stainless steel steam coil to achieve guaranteed treatment temperatures.
- (2) stainless steel 10 HP treatment pumps with direct read pump pressure gauges.
- Non-proprietary parts

### Options

- Floor Mounting
- Pass-thru Unit
- Right or Left Hand Services
- LYNX OPTI-Wash™ Water Saving System
- Re-usable Throwing Alkaline and/or Acid Tank
- Heated Rinse Tank
- House Hot Water Heat Exchanger
- Electric Heat System
- Integral Data Collection System
- LYNX Smart-Cool™ System
- Drain Discharge Cooling -Injected/Tank
- Automatic Damper
- SS Exhaust Fan
- Low Steam Pressure Package
- Pass-thru Door Interlock System
- Air Compressor
- Printer
- Seismic Tie Down
- Detergent Dispensing Systems
- pH Neutralization System
- Feeder Bottle Washing System
- Integrated Pan Wash System
- Automatic Water Rack Flush System
- Split Base for Special Entry
- Port-view Door Window
- 36"-54" Door Widths
- Active Door Seal
- Utility Enclosure Panels
- Inclined Floor Grating
- Automatic Inclined Floor Grating
- Steam Heated Dryer System
- Barrier Wall Flange(s)

### Accessories

- Floor Ramps
- Modular Walls
- Bottle Wash Cart
- Universal Cage Wash Cart

### Construction

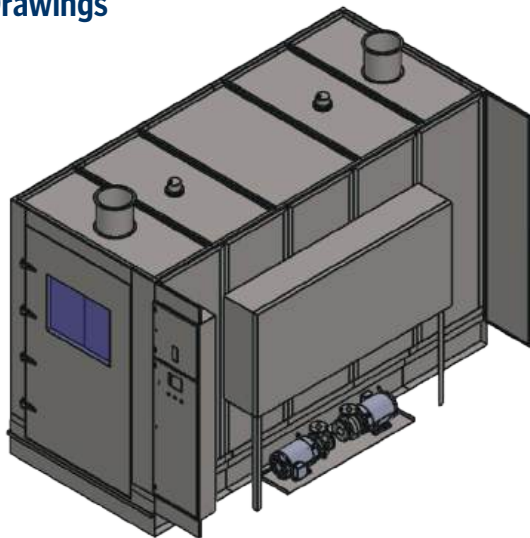
- Cabinet Construction - 14 ga 304 SS
- 46" wide standard door

## Utilities

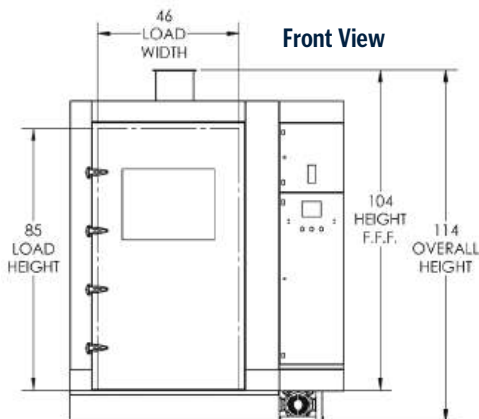
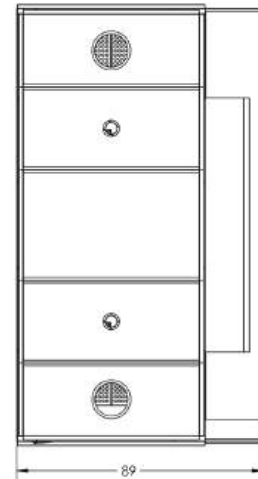
<b>Electrical (E)</b>	3-60-208/480V, 24HP
<b>Hot Water (HW)</b>	1½" NPT, 35 PSI, 50 GPM @ 140° F ± 5° F (75 gallon sump capacity)
<b>Cold Water (CW)*</b>	1½" NPT, 35 PSI, 100 GPM @ 50° F ± 5° F
<b>Steam (S)</b>	2" NPT, 45-80 PSI, Dynamic ± 5 PSI, 1000-1200 #/Hr Flow Rate
<b>Condensate (C)</b>	2" NPT
<b>Air (A)</b>	½" NPT, 80-100 PSI, 4-6 CFM Flow Rate
<b>Drain (D)</b>	(2) 12" x 12" Floor Sink with (2) 4" Floor Drain ( <i>minimum</i> ), 180 GPM Flow Rate
<b>Vent (V)</b>	12" ID Duct, 750 CFM, Saturated Vapor @ 190° F

\*CW - Required if drain discharge cool-down package ordered

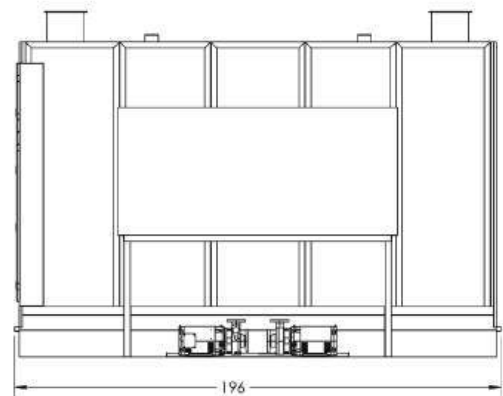
## Drawings



Top View



Side View



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# Cage & Rack Washer

## Model 430RS

**A heavy duty, large-capacity hydro-spray washer that is easy to use, requires minimal maintenance, and has the highest cleanability.**

Model	Standard Chamber Size <i>W x H x D</i>	Standard Unit Size <i>W x H x D</i>	Opt. Door Widths	Opt. Door Heights	Opt. Chamber Lengths
430RS	48" x 88" x 188"	62.75" x 95" x 192"	42", 46"	74", 82"	154", 164", 170"

*Washers are customizable.*

### Features

- Heavy-duty Hinge Door
- heavy-duty stainless steel door with port view glass window.
- Modular construction
- Knock-down shipment
- Stainless steel, 20 HP treatment pump with a direct read pump pressure gauge.
- Rotating spray delivery system
- Personnel safety features
- Allen Bradley Controls MicroLogix PLC System
- Full Color HMI Touch Screen
- 10 Configurable Cycles
- Automatic Self-cleaning Screen
- Temperature Guarantee
- Insulated Construction
- Incoming Utility Gauges
- Interior Illumination
- SS Recirculation Piping and Components
- Non-proprietary Parts

### Options

- Shallow Base Unit (6")
- Pit or Floor Mounted
- Pass-thru Unit
- Right or Left Hand Services
- Re-usable Throwing Alkaline Tank
- House Hot Water Heat Exchanger
- Integral Data Collection System
- Drain Discharge Cooling
- Automatic Damper
- SS Exhaust Fan
- Low Steam Pressure Package
- Pass-thru Door Interlock System
- Air Compressor
- Printer
- Seismic Tie Down
- Detergent Dispensing Systems
- pH Neutralization System
- Feeder Bottle Washing System
- Automatic Water Rack Flush System
- Split Base for Special Entry
- Utility Enclosure Panels
- Inclined Floor Grating
- Barrier Wall Flange(s)

### Construction

- Cabinet Construction - 16 ga 304 SS

## Accessories

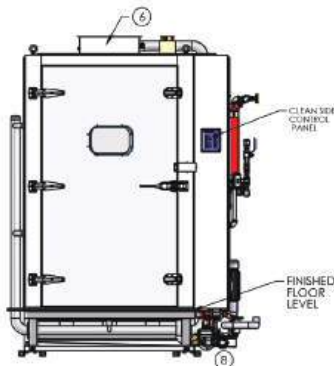
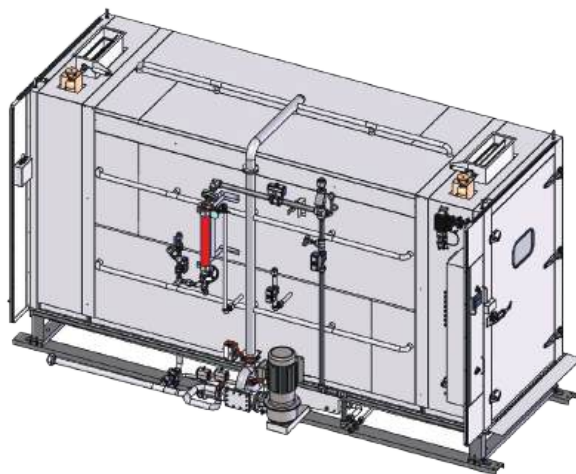
- Floor Ramps
- Bottle Wash Cart
- Universal Cage Wash Cart
- High Capacity Cage Wash System

## Utilities

<b>Electrical (E)</b>	3-60-208/480/600V, 23HP
<b>Hot Water (HW)</b>	1" NPT, 35 PSI, 25 GPM @ 140° F ± 5° F (95 gallon sump capacity)
<b>Cold Water (CW)*</b>	1" NPT, 35 PSI, 25 GPM @ 50° F ± 5° F
<b>Steam (S)</b>	2" NPT, 40-60 PSI, Dynamic ± 5 PSI, 900 #/Hr Flow Rate
<b>Condensate (C)</b>	1" NPT + 3/4" NPT
<b>Air (A)</b>	1/4" NPT, 80-100 PSI, 1-2 CFM Flow Rate
<b>Drain (D)</b>	12" x 12" Floor Sink with 4" Floor Drain ( <i>minimum</i> ), 550 GPM Flow Rate
<b>Vent (V)</b>	8" x 22" Duct, Saturated Vapor @ 190° F, 1 DC (1200 CFM) + 1 IDC (500 CFM)

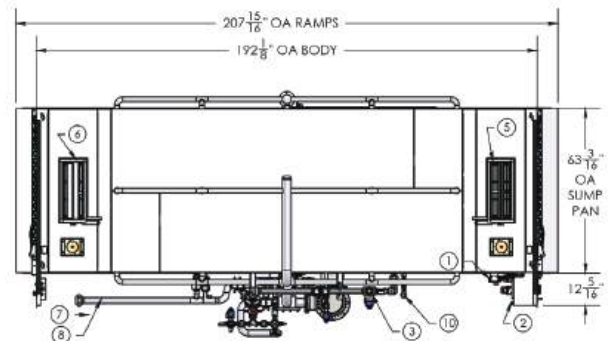
\*CW - Required if drain discharge cool-down package ordered

## Drawings

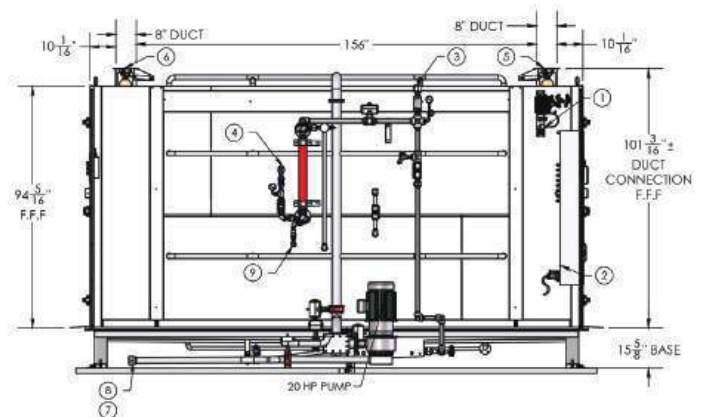


Front View

Side View



Top View



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Spire Integrated Solutions manufactures the LYNX brand of Vivarium Washing equipment.



# Cage & Rack Washer

## Model 450LX

**A heavy duty, large-capacity hydro-spray washer that is easy to use, requires minimal maintenance, and highest cleanability rating.**

Model	Standard Chamber Size <i>W x H x D</i>	Standard Unit Size <i>W x H x D</i>	Opt. Door Widths	Opt. Door Heights	Opt. Chamber Lengths
450LX	72" x 85" x 141"	122" x 104" x 149"-226"	60", 84"	88", 93", 96"	All 85"- 188"+

*Washers can be designed to any size to meet your application requirements.*

### Features

- Heavy-duty hinge doors
- Stainless steel doors
- (2) Port windows
- LYNX IDEC Controls System
- Recirculated water is heated by a stainless steel steam coil to achieve guaranteed treatment temperatures.
- (2) stainless steel 10-15 HP treatment pumps with direct read pump pressure gauges.
- Modular construction
- Knock-down shipment
- Oscillating spray delivery system
- Personnel safety features
- Full Color HMI Touch Screen
- 12 configurable cycles
- Neutralization system
- Automatic self-cleaning screen
- Temperature guarantee
- Insulated construction
- Incoming utility gauges
- Interior illumination
- SS recirculation piping and components
- Non-proprietary parts

### Construction

- Cabinet Construction - 14 ga 304 SS

### Options

- Pit or Floor Mounted
- Pass-thru Unit
- Right or Left Hand Services
- LYNX OPTI-Wash™ Water Saving System
- Re-usable Throwaway Alkaline and/or Acid Tank
- Heated Rinse Tank
- House Hot Water Heat Exchanger
- Electric Heat System
- Integral Data Collection System
- LYNX Smart-Cool™ System
- Drain Discharge Cooling - Injected/Tank
- Automatic Damper
- SS Exhaust Fan
- Low Steam Pressure Package
- Pass-thru Door Interlock System
- Air Compressor
- Printer
- Seismic Tie Down
- Detergent Dispensing Systems
- pH Neutralization System
- Feeder Bottle Washing System
- Integrated Pan Wash System
- Automatic Water Rack Flush System
- Split Base for Special Entry
- Port-view Door Window
- 1/3 View Glass Door
- Full View Glass Door
- 36"-54" Door Widths Available (46" wide standard)
- Active Door Seal
- Utility Enclosure Panels
- Inclined Floor Grating
- Automatic Inclined Floor Grating
- Steam Heated Dryer System
- Barrier Wall Flange(s)

### Accessories

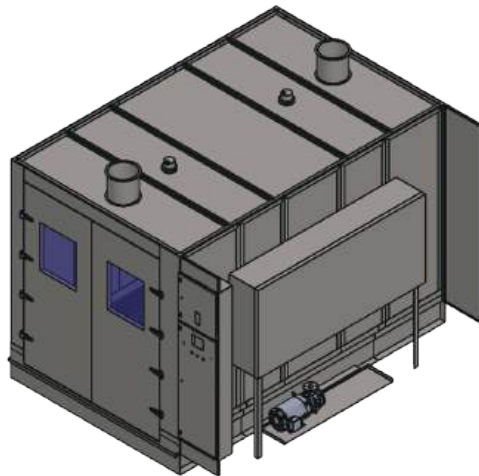
- Floor Ramps
- Modular Walls
- Bottle Wash Cart
- Universal Cage Wash Cart

## Utilities

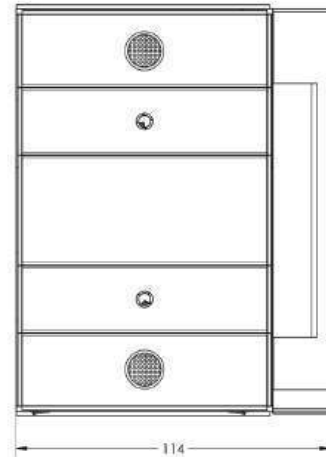
<b>Electrical (E)</b>	3-60-208/480V, 22-32HP
<b>Hot Water (HW)</b>	1½" NPT, 35 PSI, 50 GPM @ 140° F ± 5° F (40 gallon sump capacity)
<b>Cold Water (CW)*</b>	1½" NPT, 35 PSI, 100 GPM @ 50° F ± 5° F
<b>Steam (S)</b>	2" NPT, 45-80 PSI, Dynamic ± 5 PSI, 1000-1200 #/Hr Flow Rate 2" NPT
<b>Condensate (C)</b>	½" NPT
<b>Air (A)</b>	80-100 PSI, 4-6 CFM Flow Rate
<b>Drain (D)</b>	(2) 12" x 12" Floor Sink with (2) 4" Floor Drain ( <i>minimum</i> ), 180 GPM Flow Rate
<b>Vent (V)</b>	12" ID Duct, 750 CFM, Saturated Vapor @ 190° F

*\*CW - Required if drain discharge cool-down package ordered*

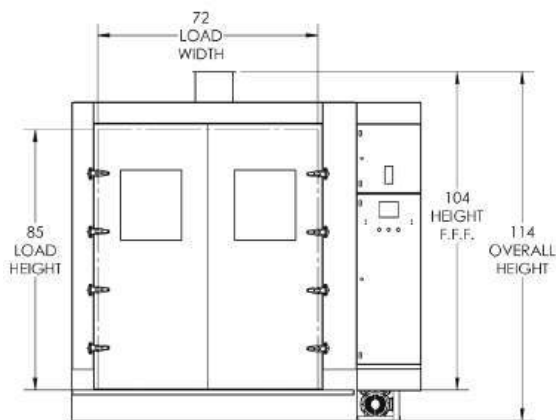
## Drawings



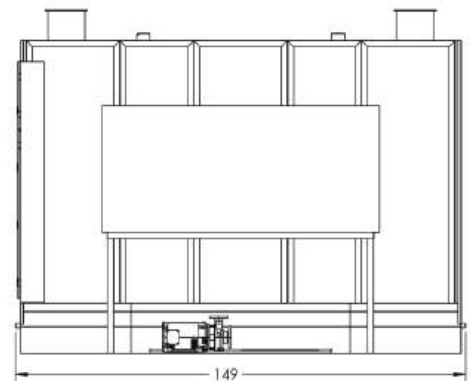
Top View



Front View



Side View



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# Cage & Rack Washer

## Model 450RS

Heavy duty, large-capacity hydro-spray washer that is easy to use, and has the highest cleanability rating.

Model	Standard Chamber Size W x H x D	Standard Unit Size W x H x D	Opt. Door Widths	Opt. Door Heights	Opt. Chamber Lengths
450RS	68" x 88" x 128"	83.25" x 95" x 132"	62", 74", 84"	90", 93", 96"	109", 140", 150", 160", 165"

*Washers can be customized to any size to meet your application requirements.*

### Features

- Heavy-duty hinge door
- Heavy-duty stainless steel doors with port view glass windows.
- Modular construction
- Knock-down shipment
- Rotating spray delivery system
- Personnel safety features
- Allen Bradley Controls MicroLogix PLC System
- Full Color HMI
- Re-usable/throwaway alkaline tank
- House Hot Water Heat Exchanger
- Recirculated water is heated by a stainless steel steam coil to achieve guaranteed treatment temperatures.
- Stainless steel 20 HP treatment pump with a direct read pump pressure gauge.
- 10 configurable cycles
- Automatic self-cleaning screen
- Temperature guarantee
- Insulated construction
- Incoming utility gauges
- Interior illumination
- SS recirculation piping and components
- Non-proprietary parts

### Options

- Shallow Base Unit (6")
- Pit or Floor Mounted
- Pass-thru Unit
- Right or Left Hand Services
- Integral Data Collection System
- Drain Discharge Cooling
- Automatic Damper
- SS Exhaust Fan
- Low Steam Pressure Package
- Pass-thru Door Interlock System
- Air Compressor
- Printer
- Seismic Tie Down
- Detergent Dispensing Systems
- pH Neutralization System
- Feeder Bottle Washing System
- Automatic Water Rack Flush System
- Split Base for Special Entry
- Utility Enclosure Panels
- Inclined Floor Grating
- Barrier Wall Flange(s)

### Accessories

- Floor Ramps
- Bottle Wash Cart
- Universal Cage Wash Cart
- High Capacity Cage Wash System

### Construction

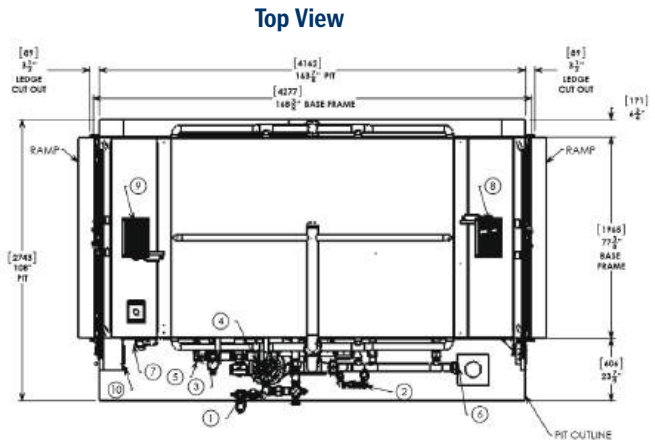
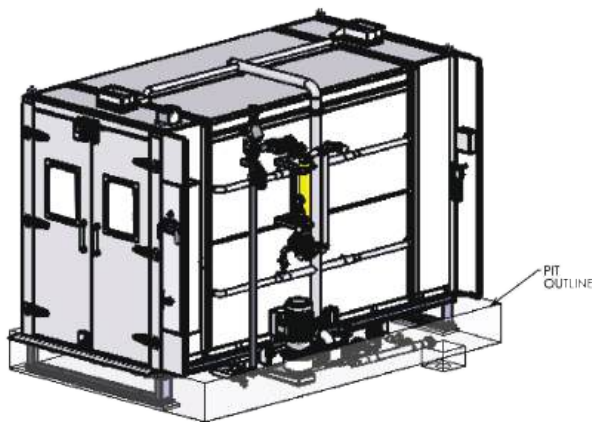
- Cabinet Construction - 16 ga 304 SS

## Utilities

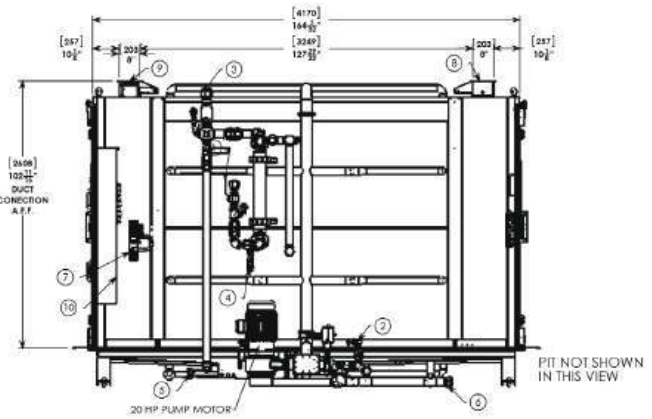
<b>Electrical (E)</b>	3-60-208/480/600V, 23HP
<b>Hot Water (HW)</b>	1" NPT, 35 PSI, 25 GPM @ 140° F ± 5° F (125 gallon sump capacity)
<b>Cold Water (CW)*</b>	1" NPT, 35 PSI, 25 GPM @ 50° F ± 5° F
<b>Steam (S)</b>	1½" NPT, 40-60 PSI, Dynamic ± 5 PSI, 1000 #/Hr Flow Rate
<b>Condensate (C)</b>	1" NPT + ¾" NPT
<b>Air (A)</b>	¼" NPT, 80-100 PSI, 1-2 CFM Flow Rate
<b>Drain (D)</b>	12" x 12" Floor Sink with 4" Floor Drain ( <i>minimum</i> ), 530 GPM Flow Rate
<b>Vent (V)</b>	8" x 22" Duct, Saturated Vapor @ 190° F, 1 DC (1200 CFM) + 1 IDC (500 CFM)

\*CW - Required if drain discharge cool-down package ordered

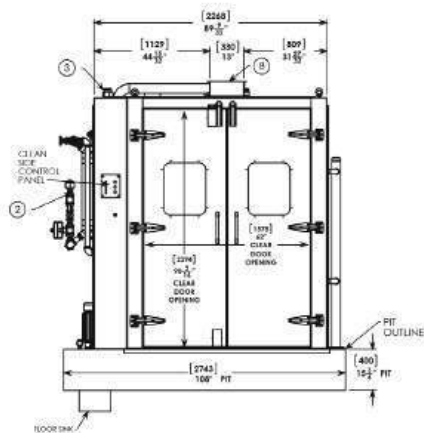
## Drawings



**Side View**



**Front View**



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Spire Integrated Solutions manufactures the LYNX brand of Vivarium Washing equipment.



# Cage & Rack Washer

## Model 455LX

**Pit or floor mounted washer with oscillating spray cleaning for animal care items.**

Model	Standard Chamber Size <i>W x H x D</i>	Standard Unit Size <i>W x H x D</i>	Opt. Door Widths	Opt. Door Heights	Opt. Chamber Lengths
455LX	Dual 46" x 85" x 141"	147" x 104" x 93"-196"	36", 48", 54"	88", 93", 96"	All 85" - 188"+

### Features

- Pit mounting
- LYNX IDEC Controls System
- (2) 1/3 size viewing windows
- Dual load chambers
- Heavy-duty hinge doors
- Modular Construction
- Knock-down Shipment
- Oscillating Spray Delivery System
- Recirculated water is heated by a stainless steel steam coil to achieve guaranteed treatment temperatures.
- 10 HP treatment pump with a direct read pump pressure gauge.
- Personnel Safety Features
- Full Color HMI Touch Screen
- 12 Configurable Cycles
- Neutralization System
- Automatic Self-cleaning Screen
- Temperature Guarantee
- Insulated Construction
- Incoming Utility Gauges
- Interior Illumination
- SS Recirculation Piping and Components
- Non-proprietary Parts

### Construction

- Cabinet Construction - 14 ga 304 SS

### Options

- Pit or Floor Mounted
- Pass-thru Unit
- Right or Left Hand Services
- LYNX OPTI-Wash™ Water Saving System
- Re-usable Throwing Alkaline and/or Acid Tank Heated Rinse Tank
- House Hot Water Heat
- Exchanger
- Electric Heat System
- Integral Data Collection System
- LYNX Smart-Cool™ System
- Drain Discharge Cooling -Injected/Tank
- Automatic Damper
- SS Exhaust Fan
- Low Steam Pressure Package
- Pass-thru Door Interlock System
- Air Compressor
- Printer
- Seismic Tie Down
- Detergent Dispensing Systems
- pH Neutralization System
- Feeder Bottle Washing System
- Integrated Pan Wash System
- Automatic Water Rack
- Flush System
- Split base for special entry
- Port-view door window

## Accessories

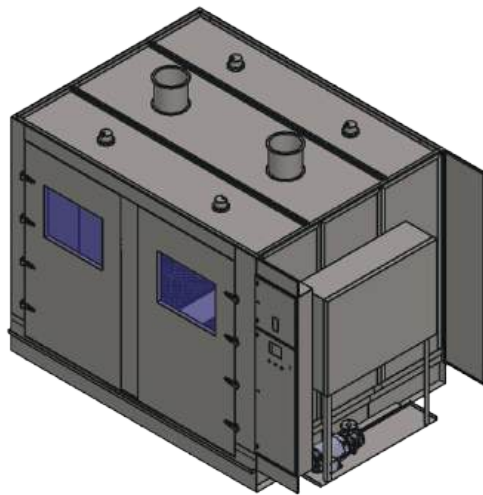
- Floor Ramps
- Modular Walls
- Bottle Wash Cart
- Universal cage wash cart

## Utilities

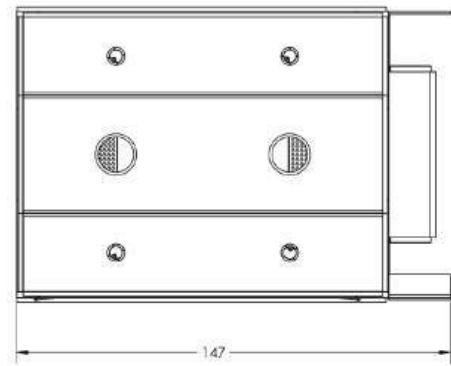
<b>Electrical (E)</b>	3-60-208/480V, 22-32HP
<b>Hot Water (HW)</b>	1½" NPT, 35 PSI, 50 GPM @ 140° F ± 5° F (40 gallon sump capacity)
<b>Cold Water (CW)*</b>	1½" NPT, 35 PSI, 100 GPM @ 50° F ± 5° F
<b>Steam (S)</b>	2" NPT, 45-80 PSI, Dynamic ± 5 PSI, 1000-1200 #/Hr Flow Rate
<b>Condensate (C)</b>	2" NPT
<b>Air (A)</b>	½" NPT, 80-100 PSI, 4-6 CFM Flow Rate
<b>Drain (D)</b>	(2) 12" x 12" Floor Sink with (2) 4" Floor Drain ( <i>minimum</i> ), 180 GPM Flow Rate
<b>Vent (V)</b>	12" ID Duct, 750 CFM, Saturated Vapor @ 190° F

\*CW - Required if drain discharge cool-down package ordered

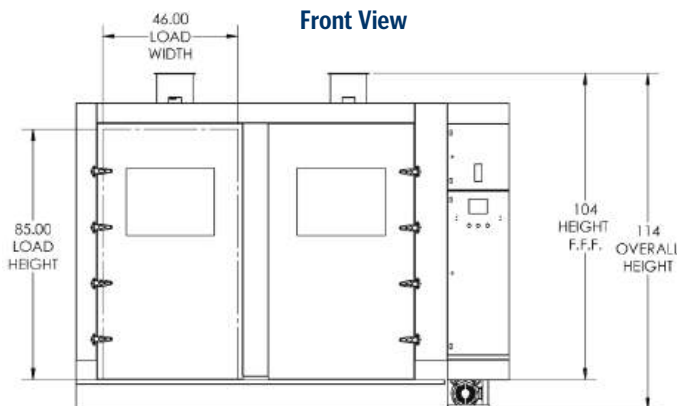
## Drawings



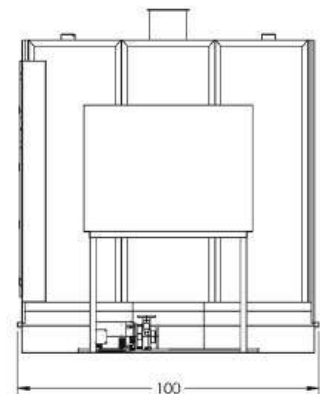
Top View



Front View



Side View



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# Tunnel Washers

## MODEL COMPARISON

524LX  
530LX  
536LX  
542LX  
548LX  
554LX



	Standard Belt Width	Avail. Chamber Heights
524LX	24	18, 25
524SW <sup>1</sup>	24	24
530LX	30	18, 25
536LX	36	18, 25, 36
536SW <sup>2</sup>	36	24
542LX	42	18, 25
548LX	48	18, 25
554LX	54	18, 25

All dimensions listed in inches.

- 1) 524SW (formerly SCIENTEK SW2524)
- 2) 536SW (formerly SCIENTEK SW2536)

524SW  
536SW



STANDARD FEATURES	LX	RS	AVAILABLE OPTIONS	LX	RS
LYNX IDEC Control System	●		Auto Self-cleaning Screen - Wash	●	
Number of Configurable Cycles		●	Auto Self-cleaning Screen - Rinse	●	
180 Recirculated Temp Guarantee	12	10	De-scaling Cycle	●	●
Drawer Debris Screen	●	●	Automatic Tank Dump Valves	●	●
Basket Screen	●		Drain Discharge Cooling - Injected	●	●
Final Rinse Modulating Steam Valve		●	Tank Cooling - Smart-Cool™ System	●	
Wash Pump HP	●	●	7 Foot Dryer Section - Single Blower	●	●
Rinse Pump HP	10	7.5	7 Foot Dryer Section - Double Blower	●	
Sump Construction - 12 ga 304 SS	3	7.5	Photo-electric Conveyor Stop	●	●
Sump Construction - 14 ga 304 SS	●		Integrated Hammer-mill Bedding Dump Station	●	
Cabinet Construction - 14 ga 304 SS		●	Integrated Waste Funnel Bedding Dump Station	●	
Control Cabinet	UL	CSA	Illuminated Chamber	●	
			Bedding Dispenser Controls	●	●
			Door Windows	●	

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180° F Recirculated Temperature Guarantee

# Tunnel Washer

## Model 524LX | 61" x 85"

**Conveyorized, hydro-spray washer: cleans & dries animal heroes' cages, lids, feeder bowls, bottles, and more.**

Model	Standard Tunnel Opening W x H	Standard Unit Size* W x H	Washer Lengths*	Standard Belt Width	Opt. Tunnel Heights*
524LX	25" x 25"	61" x 85"	15'-24' (with dryer)	24"	18"

\*Washers can be customized. Overall size may vary depending on options.

### Features

- Splash Proof Access Doors
- 2-10 FPM Conveyor Drive Motor
- Integral Unitized Construction
- Removable Spray Headers
- Flat Wire Conveyor Belt
- Personnel Safety Features
- Automatic Control System
- PLC Control System with Full Color HMI Touch Screen
- Configurable Cycles
- Automatic Water Level Control
- Neutralization System
- Drawer Debris Screens
- 180° F Recirculated Temperature Guarantee
- Insulated Construction
- Hydraulic Hold-down System
- Incoming Utility Gauges
- SS Recirculation Piping and Components
- Non-proprietary Parts
- Automatic Tank Draining System
- De-scaling Cycle
- Final Rinse Modulating Steam Valve
- Automatic Self Cleaning Screen (wash)

### Options

- Right or Left Hand Services
- LYNX OPTI-Flow™ Water and Energy Saving System
- Automatic Self Cleaning Screen (rinse)
- Discharge Roller Conveyors
- Integral Data Collection System
- Automatic Drain Discharge Cooldown System
- Low Steam Pressure Package
- Air Compressor
- Printer
- 7' Double Blower Drying System
- Seismic Tie Down
- Detergent Dispensing Systems
- pH Neutralization System
- Bedding Dispenser Controls
- Added Load End Extensions
- Integrated Bedding Dump Stations - Garb-el, Vacuum, Garbage Tote or Can
- Interior Illumination
- Barrier Wall Flange(s)

### Construction

- The durable stainless steel belt is manufactured to withstand the weight and impact of heavy bottle wash racks and other large objects requiring processing.
- The system is designed to minimize water usage by reusing 100% of final rinse water in the prewash and tank top-off process.
- Recirculated water is heated by stainless steel steam coils to maintain and achieve guaranteed treatment temperatures.
- Color touch screen control panel is a user-friendly interface for selecting, programming, and monitoring cycles.

## Accessories

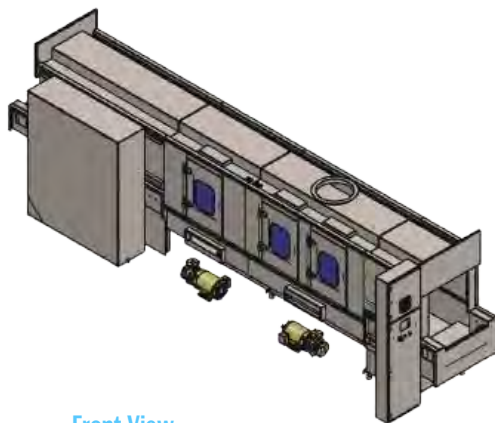
- Modular Walls

## Utilities

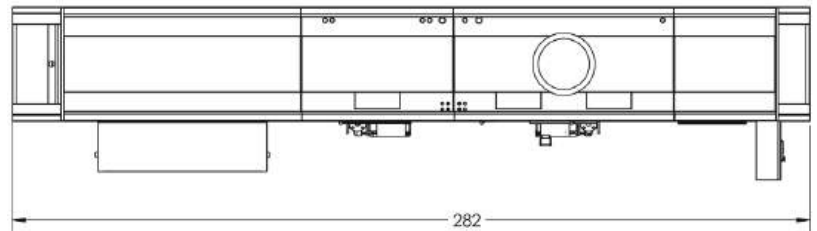
<b>Electrical (E)</b>	3-60-208/480V, 24HP
<b>Hot Water (HW)</b>	1½" NPT, 35-60 PSI, 30-50 GPM @ 140° F ± 5° F ( <i>fills only</i> ), HW 10-12 GPM continuous 1½"
<b>Cold Water (CW)*</b>	NPT, 35-60 PSI, 35 GPM @ 50° F ± 5° F
<b>Steam (S)</b>	2" NPT, 45-80 PSI, Dynamic ± 5 PSI, 1800 #/Hr Flow Rate
<b>Steam (S2)</b>	2" NPT, 45-80 PSI, Dynamic ± 5 PSI, 1000 #/Hr Flow Rate
<b>Condensate (C)</b>	1" NPT (2 required)
<b>Air (A)</b>	½" NPT, 100-125 PSI, 1-2 CFM Flow Rate
<b>Drain (D)</b>	12" x 12" Floor Sink with 4" Floor Drain, 50 GPM Flow Rate ( <i>2 required</i> )
<b>Vent (V)</b>	18" ID Duct, 2200 CFM, 2-3" WC SP, Saturated Vapor @ 180° F

\*S2 - Required if optional dryer package is ordered \*\*CW - Required if drain discharge cool-down package ordered

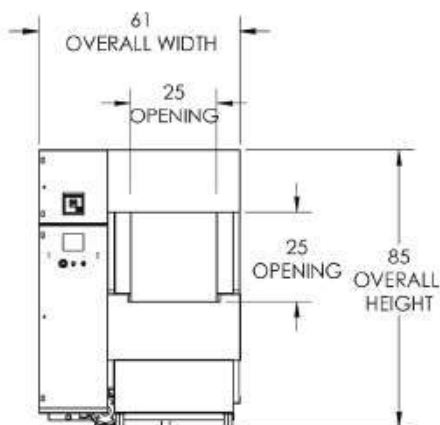
## Drawings



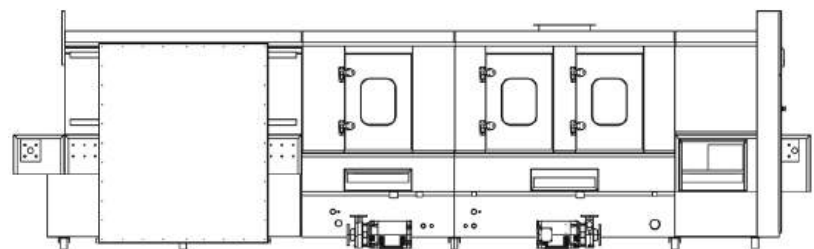
Top View



Front View



Side View



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# Tunnel Washers

## Model 524SW | 66" x 73"

**Conveyorized, hydro-spray washer designed to clean & dry animal heroes' cages, lids, feeder bowls, and bottles.**



180° F Recirculated Temperature Guarantee

Model	Standard Tunnel Opening W x H	Standard Unit Size* W x H	Washer Lengths*	Standard Belt Width
524LX	24" x 24"	66" x 73"	15'- 28' (with dryer)	24"

\*Washers can be customized. Overall size may vary depending on options.

### Features

- Splash Proof Access Doors
- 2-10 FPM Conveyor Drive Motor
- Integral Unitized Construction
- Removable Spray Headers Upper and Lower Jet Manifolds
- Stainless Steel Flat Wire Conveyor Belt
- Personnel Safety Features
- Automatic Control System
- Configurable Cycles
- Automatic Water Level Control
- Basket Screen
- 180° F Recirculated Temperature Guarantee
- Insulated Construction
- Hydraulic Hold-down System
- Incoming Utility Gauges
- SS Recirculation Piping and Components
- Non-proprietary Parts
- Automatic Tank Draining System
- Final Rinse Modulating Steam Valve

### Options

- Right or Left Hand Services
- Discharge Roller Conveyors
- Integral Data Collection System
- Automatic Drain Discharge Cooldown System
- Low Steam Pressure Package
- Air Compressor
- Printer
- USB Data Collection System
- 7' Double Blower Drying System
- Seismic Tie Down
- Detergent Dispensing Systems
- De-scaling Cycle
- pH Neutralization System
- Bedding Dispenser Signals
- Added Load End Extensions
- Barrier Wall Flange(s)

### Construction

- The durable stainless steel belt is manufactured to withstand the weight and impact of heavy bottle wash racks and other large objects requiring processing.
- The system is designed to minimize water usage by reusing 100% of final rinse water in the prewash and tank top-off process.
- Recirculated water is heated by stainless steel steam coils to maintain and achieve guaranteed treatment temperatures.
- Color touch screen control panel is a user-friendly interface for selecting, programming, and monitoring cycles.

**Accessories**

- Modular Walls

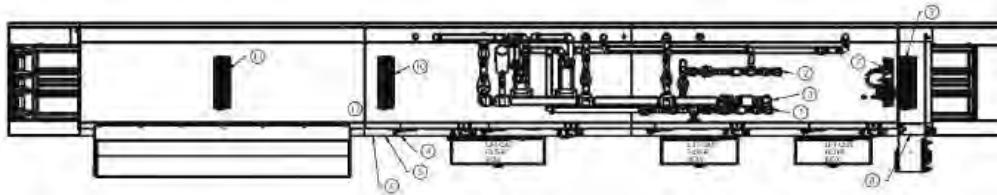
**Utilities**

<b>Electrical (E)</b>	3-60-208/480V, 28HP
<b>Hot Water (HW)</b>	1" NPT, 40-60 PSI, 25-60 GPM @ 120° F ± 5° F ( <i>fills only</i> ), HW 10-15 GPM continuous
<b>Cold Water (CW)*</b>	1" NPT, 30-60 PSI, 25 GPM @ 50° F ± 5° F
<b>Steam (S)</b>	1 1/2" NPT, 40-60 PSI, Dynamic ± 5 PSI, 1500 #/Hr Flow Rate
<b>Condensate (C)</b>	1" NPT ( <i>no lift allowed</i> ), 3/4" NPT - 3 <i>required</i>
<b>Air (A)</b>	1/4" NPT, 100-125 PSI, 1-2 CFM Flow Rate
<b>Drain (D)</b>	12" x 12" Floor Sink with 4" Floor Drain, 600 GPM Flow Rate ( <i>2 required</i> ) 4" x 16" ID
<b>Vent (V)</b>	Duct, 600 CFM, 3/4" WCSP, Saturated Vapor @ 180° F ( <i>3 required</i> )

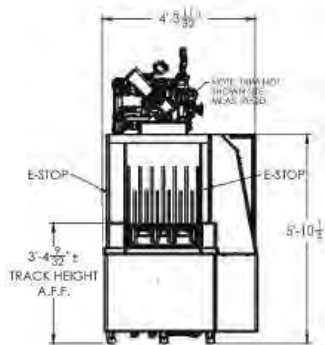
\*S2 - Required if optional dryer package is ordered \*\*CW - Required if drain discharge cool-down package ordered

**Drawings**

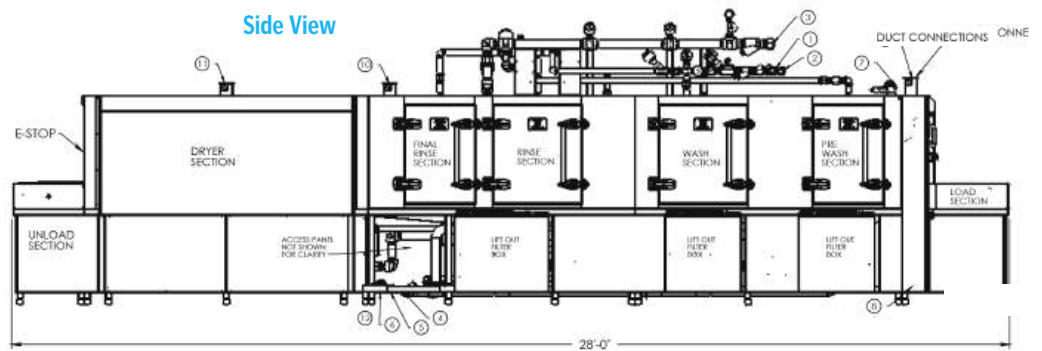
**Top View**



**Front View**



**Side View**



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Spire Integrated Solutions manufactures the LYNX brand of Vivarium Washing equipment.



# Tunnel Washers

## Model 530LX | 67" x 85"

**Conveyorized, hydro-spray washer designed to clean & dry animal heroes cages, lids, feeder bowls, bottles, and more.**

Model	Standard Tunnel Opening W x H (inches)	Standard Unit Size* W x H (inches)	Washer Lengths* (feet)	Standard Belt Width (feet)	Opt. Tunnel Heights* (inches)
530LX	31" x 25"	67" x 85"	15'-24' (with dryer)	30"	18", 25"

*\*Washers can be designed to any size to meet your application requirements. Overall size may vary depending on options.*

### Features

- Splash Proof Access Doors
- 2-10 FPM Conveyor Drive Motor
- Integral Unitized Construction
- Removable Spray Headers
- Flat Wire Conveyor Belt
- Personnel Safety Features
- Automatic Control System
- PLC Control System with Full Color HMI Touch Screen
- Configurable Cycles
- Automatic Water Level Control
- Neutralization System
- Drawer Debris Screens
- 180° F Recirculated Temperature Guarantee
- Insulated Construction
- Hydraulic Hold-down System
- Incoming Utility Gauges
- SS Recirculation Piping and Components
- Non-proprietary Parts
- Automatic Tank Draining System
- De-scaling Cycle
- Final Rinse Modulating Steam Valve
- Automatic Self Cleaning Screen (wash)

### Construction

The LYNX brand, 530LX Tunnel Washers are built with durable U.S. stainless steel (housing & belt) & manufactured to withstand the weight and impact of heavy bottle wash racks and other large objects requiring processing.

**This wash system is designed to minimize water usage by reusing 100% of final rinse water in the prewash and tank top-off process.**

**Recirculated water is heated by stainless steel steam coils to maintain and achieve guaranteed treatment temperatures.**

### Options

- Right or Left Hand Services
- LYNX OPTI-Flow™ Water and Energy Saving System
- Automatic Self Cleaning Screen (rinse)
- Discharge Roller Conveyors
- Integral Data Collection System
- Automatic Drain Discharge Cooldown System
- Low Steam Pressure Package
- Air Compressor
- Printer
- 7' Double Blower Drying System
- Seismic Tie Down
- Detergent Dispensing Systems
- pH Neutralization System
- Bedding Dispenser Controls
- Added Load End Extensions
- Integrated Bedding Dump Stations - Garbage Vacuum, Garbage Tote or Can
- Interior Illumination
- Barrier Wall Flange(s)

## Accessories

- Modular Walls

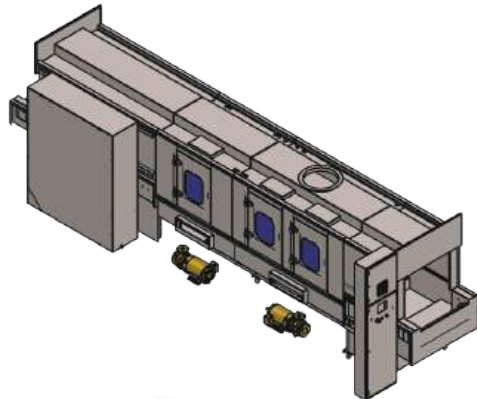
## Utilities

<b>Electrical (E)</b>	3-60-208/480V, 26HP
<b>Hot Water (HW)</b>	1½" NPT, 35-60 PSI, 30-50 GPM @ 140° F ± 5° F ( <i>fills only</i> ), HW 10-12 GPM continuous
<b>Cold Water (CW)*</b>	1½" NPT, 35-60 PSI, 35 GPM @ 50° F ± 5° F
<b>Steam (S)</b>	2" NPT, 45-80 PSI, Dynamic ± 5 PSI, 1800 #/Hr Flow Rate 2" NPT,
<b>Steam (S2)</b>	45-80 PSI, Dynamic ± 5 PSI, 1000 #/Hr Flow Rate
<b>Condensate (C)</b>	1" NPT (2 required)
<b>Air (A)</b>	½" NPT, 100-125 PSI, 1-2 CFM Flow Rate
<b>Drain (D)</b>	12" x 12" Floor Sink with 4" Floor Drain, 50 GPM Flow Rate ( <i>2 required</i> ) 18" ID Duct,
<b>Vent (V)</b>	2200 CFM, 2-3" WC SP, Saturated Vapor @ 180° F

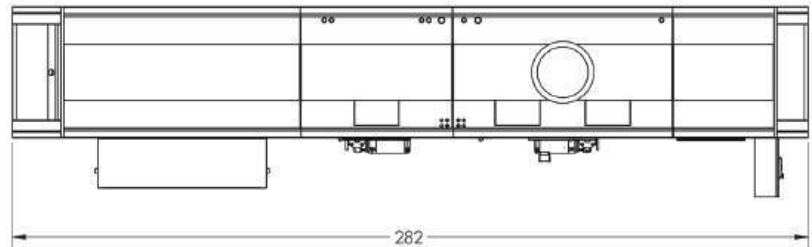
\*S2 - Required if optional dryer package is ordered

\*\*CW - Required if drain discharge cool-down package ordered

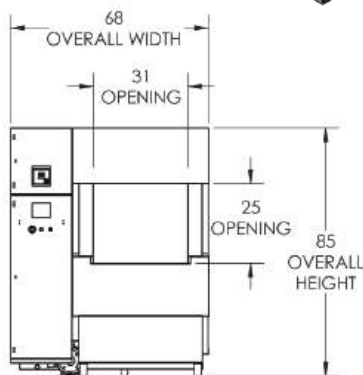
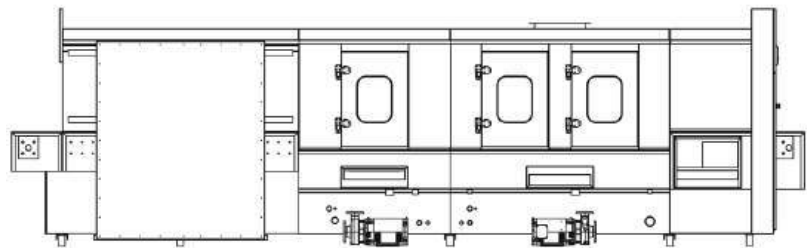
## Drawings



Top View



Side View



Front View

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# Tunnel Washer

## Model 536LX | 73" x 85"

**Conveyorized, hydro-spray washer designed to clean & dry animal heroes cages, lids, feeder bowls, bottles, and more.**

Model	Standard Tunnel Opening - W x H	Standard Unit Size* W x H	Washer Lengths*	Standard Belt Width	Opt. Tunnel Heights*
536LX	37" x 25"	73" x 85"	15'-24' (with dryer)	36"	18", 25", 36"

\*Washers can be customized. Overall size may vary depending on options.

### Features

- Splash Proof Access Doors
- 2-10 FPM Conveyor Drive Motor
- Integral Unitized Construction
- Removable Spray Headers
- Flat Wire Conveyor Belt
- Personnel Safety Features
- Automatic Control System
- PLC Control System with Full Color HMI Touch Screen
- Configurable Cycles
- Automatic Water Level Control
- Neutralization System
- Drawer Debris Screens
- 180° F Recirculated Temperature Guarantee
- Insulated Construction
- Hydraulic Hold-down System
- Incoming Utility Gauges
- SS Recirculation Piping and Components
- Non-proprietary Parts
- Automatic Tank Draining System
- De-scaling Cycle
- Final Rinse Modulating Steam Valve
- Automatic Self Cleaning Screen (wash)

### Options

- Right or Left Hand Services
- LYNX OPTI-Flow™ Water and Energy Saving System
- Automatic Self Cleaning Screen (rinse)
- Discharge Roller Conveyors
- Integral Data Collection System
- Automatic Drain Discharge Cooldown System
- Low Steam Pressure Package
- Air Compressor
- Printer
- 7' Double Blower Drying System
- Seismic Tie Down
- Detergent Dispensing Systems
- pH Neutralization System
- Bedding Dispenser Controls
- Added Load End Extensions
- Integrated Bedding Dump Stations
- Interior Illumination
- Barrier Wall Flange(s)

### Construction

- The LYNX brand 536LX Tunnel Washers are built to perform under the most rugged and aggressive environments with robust design and construction.
- The durable stainless steel belt is manufactured to withstand the weight and impact of heavy bottle wash racks and other large objects requiring processing.
- The system is designed to minimize water usage by reusing 100% of final rinse water in the prewash and tank top-off process.
- Recirculated water is heated by stainless steel steam coils to maintain and achieve guaranteed treatment temperatures. interface for selecting, programming, and monitoring cycles.

## Accessories

- Modular Walls

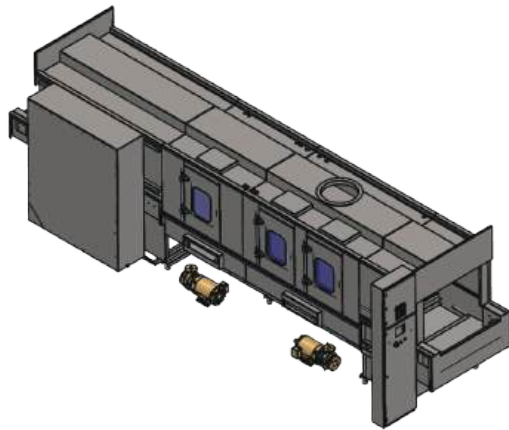
## Utilities

<b>Electrical (E)</b>	3-60-208/480V, 26HP
<b>Hot Water (HW)</b>	1½" NPT, 35-60 PSI, 30-50 GPM @ 140° F ± 5° F ( <i>fills only</i> ), HW 10-12 GPM continuous
<b>Cold Water (CW)*</b>	1½" NPT, 35-60 PSI, 35 GPM @ 50° F ± 5° F
<b>Steam (S)</b>	2" NPT, 45-80 PSI, Dynamic ± 5 PSI, 1800 #/Hr Flow Rate
<b>Steam (S2)</b>	2" NPT, 45-80 PSI, Dynamic ± 5 PSI, 1000 #/Hr Flow Rate
<b>Condensate (C)</b>	1" NPT (2 required)
<b>Air (A)</b>	½" NPT, 100-125 PSI, 1-2 CFM Flow Rate
<b>Drain (D)</b>	12" x 12" Floor Sink with 4" Floor Drain, 50 GPM Flow Rate ( <i>2 required</i> ) 18" ID Duct, 2200 CFM
<b>Vent (V)</b>	2-3" WC SP, Saturated Vapor @ 180° F

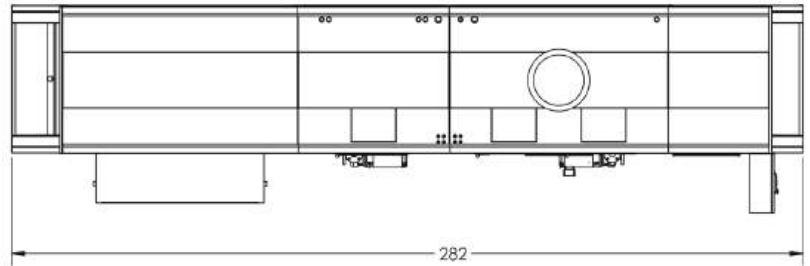
\*S2 - Required if optional dryer package is ordered

\*\*CW - Required if drain discharge cool-down package ordered

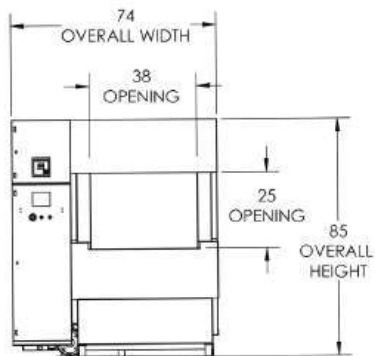
## Drawings



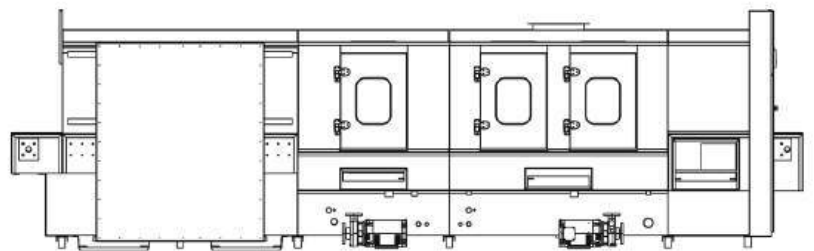
Top View



Front View



Side View



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180° F Recirculated Temperature Guarantee

# Tunnel Washer

## Model 536SW | 64" x 71"

**Conveyorized, hydro-spray washer designed to clean & dry animal heroes cages, lids, feeder bowls, bottles, and more.**

Model	Standard Tunnel Opening - <i>W x H</i>	Standard Unit Size* <i>W x H</i>	Washer Lengths*	Standard Belt Width
536SW	36" x 24"	64" x 71"	15'-28' (with dryer)	36"

### Features

- Splash Proof Access Doors
- 2-10 FPM Conveyor Drive Motor
- Integral Unitized Construction
- Removable Spray Headers Upper and Lower Jet Manifolds
- Stainless Steel Flat Wire Conveyor Belt
- Personnel Safety Features
- Automatic Control System
- PLC Control System with Full Color HMI Touch Screen
- Configurable Cycles
- Automatic Water Level Control
- Basket Screen
- 180° F Recirculated Temperature Guarantee
- Insulated Construction
- Hydraulic Hold-down System
- Incoming Utility Gauges
- SS Recirculation Piping and Components
- Non-proprietary Parts
- Automatic Tank Draining System
- Final Rinse Modulating Steam Valve

### Options

- Right or Left Hand Services
- Discharge Roller Conveyors
- Integral Data Collection System
- Automatic Drain Discharge Cooldown System
- Low Steam Pressure Package
- Air Compressor
- Printer
- USB Data Collection System
- 7' Double Blower Drying System
- Seismic Tie Down
- Detergent Dispensing Systems
- De-scaling Cycle
- pH Neutralization System
- Bedding Dispenser Signals
- Added Load End Extensions
- Barrier Wall Flange(s)

### Accessories

- Modular Walls

### Construction

- The durable stainless steel belt is manufactured to withstand the weight and impact of heavy bottle wash racks and other large objects requiring processing.
- The system is designed to minimize water usage by reusing 100% of final rinse water in the prewash and tank top-off process.
- Recirculated water is heated by stainless steel steam coils to maintain and achieve guaranteed treatment temperatures.

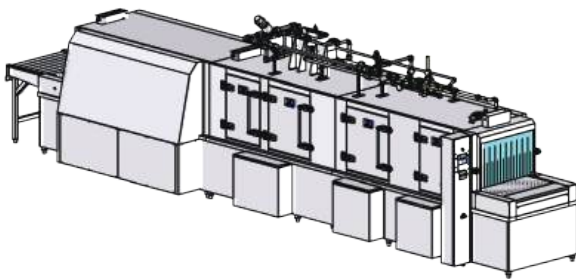
## Utilities

Electrical (E)	3-60-208/480V, 28HP
Hot Water (HW)	1" NPT, 40-60 PSI, 25-60 GPM @ 120° F ± 5° F ( <i>fills only</i> ), HW 10-15 GPM continuous
Cold Water (CW)*	1" NPT, 30-60 PSI, 25 GPM @ 50° F ± 5° F
Steam (S)	1 ½" NPT, 40-60 PSI, Dynamic ± 5 PSI, 1500 #/Hr Flow Rate
Condensate (C)	1" NPT ( <i>no lift allowed</i> ), ¾" NPT ( <i>3 required</i> )
Air (A)	¼" NPT, 100-125 PSI, 1-2 CFM Flow Rate
Drain (D)	12" x 12" Floor Sink with 4" Floor Drain, 600 GPM Flow Rate ( <i>2 required</i> )
Vent (V)	4" x 16" ID Duct, 600 CFM, ¾" WC SP, Saturated Vapor @ 180° F ( <i>3 required</i> )

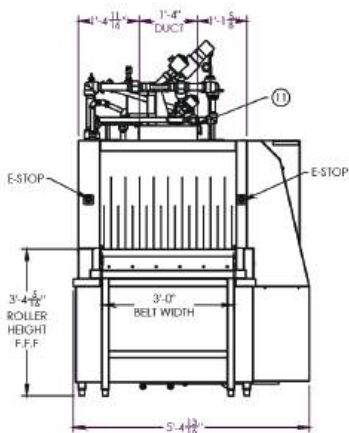
\*S2 - Required if optional dryer package is ordered

\*\*CW - Required if drain discharge cool-down package ordered

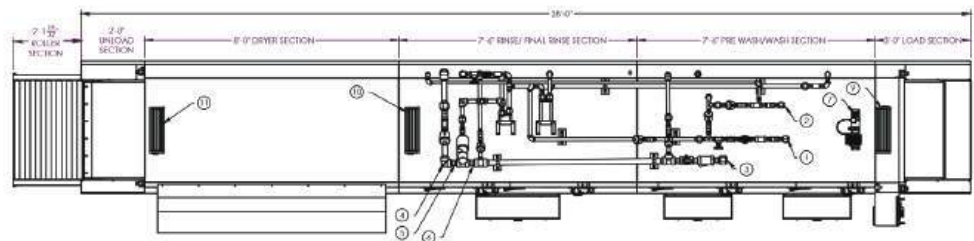
## Drawings



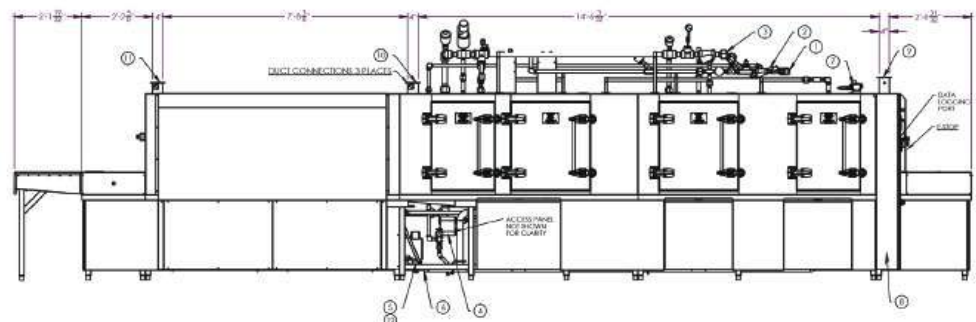
Front View



Top View



Side View



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180° F Recirculated Temperature Guarantee

# Tunnel Washers

## Model 542LX | 79" x 85"

Conveyorized, hydro-spray washer designed to clean & dry animal heroes cages, lids, feeder bowls, bottles, and more.

Model	Standard Tunnel Opening - <i>W x H</i>	Standard Unit Size* <i>W x H</i>	Washer Lengths*	Standard Belt Width	Opt. Tunnel Heights*
542LX	43" x 25"	79" x 85"	15'-24' (with dryer)	42"	18", 25"

\*Washers can be customized. Overall size may vary depending on options.

### Features

- Splash Proof Access Doors
- 2-10 FPM Conveyor Drive Motor
- Integral Unitized Construction
- Removable Spray Headers
- Flat Wire Conveyor Belt
- Personnel Safety Features
- Automatic Control System
- PLC Control System with Full Color HMI Touch Screen
- Configurable Cycles
- Automatic Water Level Control
- Neutralization System
- Drawer Debris Screens
- 180° F Recirculated Temperature Guarantee
- Insulated Construction
- Hydraulic Hold-down System
- Incoming Utility Gauges
- SS Recirculation Piping and Components
- Non-proprietary Parts
- Automatic Tank Draining System
- De-scaling Cycle
- Final Rinse Modulating Steam Valve
- Automatic Self Cleaning Screen (wash)

### Options

- Right or Left Hand Services
- LYNX OPTI-Flow™ Water and Energy Saving System
- Automatic Self Cleaning Screen (rinse)
- Discharge Roller Conveyors
- Integral Data Collection System
- Automatic Drain Discharge Cooldown System
- Low Steam Pressure Package
- Air Compressor
- Printer
- 7' Double Blower Drying System
- Seismic Tie Down
- Detergent Dispensing Systems
- pH Neutralization System
- Bedding Dispenser Controls
- Added Load End Extensions
- Integrated Bedding Dump Stations - Garb-el, Vacuum, Garbage Tote or Can
- Interior Illumination
- Barrier Wall Flange(s)

### Construction

- The durable stainless steel belt is manufactured to withstand the weight and impact of heavy bottle wash racks and other large objects requiring processing.
- The system is designed to minimize water usage by reusing 100% of final rinse water in the prewash and tank top-off process. Recirculated water is heated by stainless steel steam coils to maintain and achieve guaranteed treatment temperatures.

### Accessories

- Modular Walls

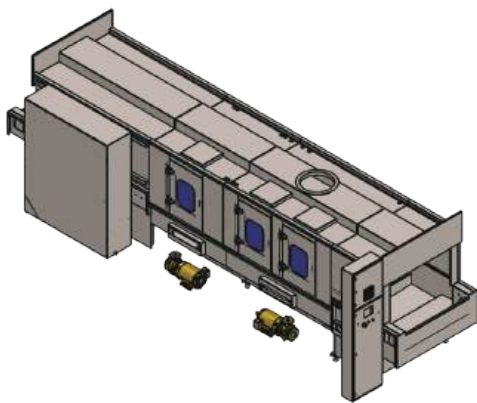
### Utilities

<b>Electrical (E)</b>	3-60-208/480V, 26HP
<b>Hot Water (HW)</b>	1½" NPT, 35-60 PSI, 30-50 GPM @ 140° F ± 5° F ( <i>fills only</i> ), HW 10-12 GPM continuous
<b>Cold Water (CW)*</b>	1½" NPT, 35-60 PSI, 35 GPM @ 50° F ± 5° F
<b>Steam (S)</b>	2" NPT, 45-80 PSI, Dynamic ± 5 PSI, 1800 #/Hr Flow Rate
<b>Steam (S2)</b>	2" NPT, 45-80 PSI, Dynamic ± 5 PSI, 1000 #/Hr Flow Rate
<b>Condensate (C)</b>	1" NPT (2 required)
<b>Air (A)</b>	½" NPT, 100-125 PSI, 1-2 CFM Flow Rate
<b>Drain (D)</b>	12" x 12" Floor Sink with 4" Floor Drain, 50 GPM Flow Rate ( <i>2 required</i> )
<b>Vent (V)</b>	18" ID Duct, 2200 CFM, 2-3" WC SP, Saturated Vapor @ 180° F

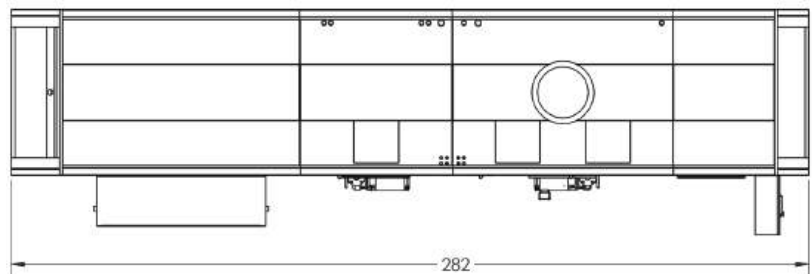
\*S2 - Required if optional dryer package is ordered

\*\*CW - Required if drain discharge cool-down package ordered

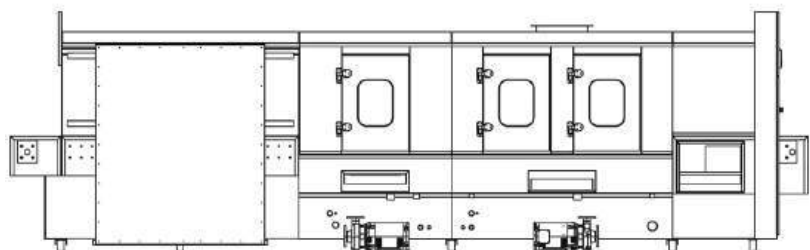
### Drawings



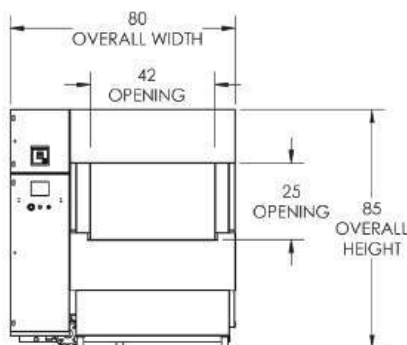
Top View



Side View



Front View



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180° F Recirculated Temperature Guarantee

# Tunnel Washers

## Model 548LX

**Conveyorized, hydro-spray washer designed to clean & dry animal heroes cages, lids, feeder bowls, bottles, and more.**

Model	Standard Tunnel Opening - W x H	Standard Unit Size* W x H	Washer Lengths*	Standard Belt Width	Opt. Tunnel Heights*
548LX	49" x 25"	85" x 85"	15'-24' (with dryer)	48"	18", 25"

\*Washers can be customized. Overall size may vary depending on options.

### Features

- Splash Proof Access Doors
- 2-10 FPM Conveyor Drive Motor
- Integral Unitized Construction
- Removable Spray Headers
- Flat Wire Conveyor Belt
- Personnel Safety Features
- Automatic Control System
- PLC Control System with Full Color HMI Touch Screen
- Configurable Cycles
- Automatic Water Level Control
- Neutralization System
- Drawer Debris Screens
- 180° F Recirculated Temperature Guarantee
- Insulated Construction
- Hydraulic Hold-down System
- Incoming Utility Gauges
- SS Recirculation Piping and Components
- Non-proprietary Parts
- Automatic Tank Draining System
- De-scaling Cycle
- Final Rinse Modulating Steam Valve
- Automatic Self Cleaning Screen (wash)

### Construction

The LYNX brand 548LX Tunnel Washers are built to perform under the most rugged and aggressive environments with robust design and construction.

The durable stainless steel belt is manufactured to withstand the weight and impact of heavy bottle wash racks and other large objects requiring positioning.

The system is designed to minimize water usage by reusing 100% of final rinse water in the prewash and tank top-off process.

Recirculated water is heated by stainless steel steam coils to maintain and achieve guaranteed treatment temperatures.

A color touch screen control panel provides a user-friendly interface for selecting, programming, and monitoring cycles.

### Options

- Right or Left Hand Services
- LYNX OPTI-Flow™ Water and Energy Saving System
- Automatic Self Cleaning Screen (rinse)
- Discharge Roller Conveyors
- Integral Data Collection System
- Automatic Drain Discharge Cooldown System
- Low Steam Pressure Package
- Air Compressor
- Printer
- 7' Double Blower Drying System
- Seismic Tie Down
- Detergent Dispensing Systems
- pH Neutralization System
- Bedding Dispenser Controls
- Added Load End Extensions
- Integrated Bedding Dump Stations - Garb-el, Vacuum, Garbage Tote or Can
- Interior Illumination
- Barrier Wall Flange(s)

**Accessories**

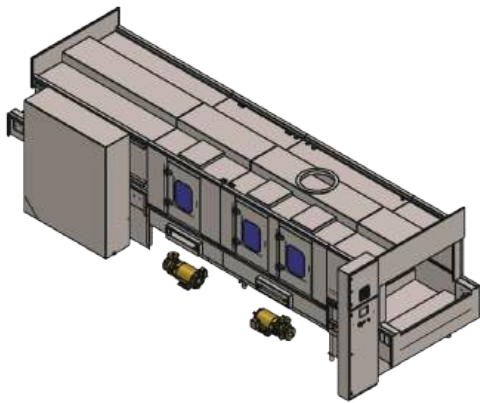
- Modular Walls

**Utilities**

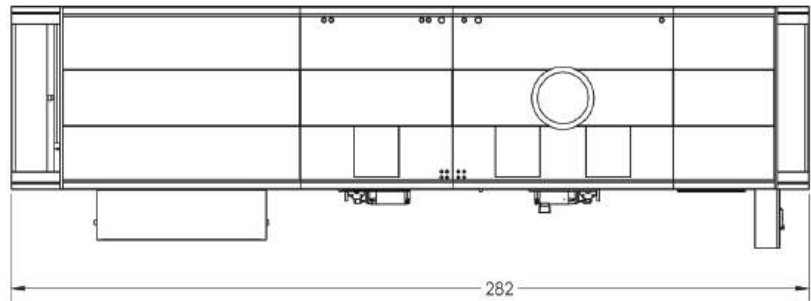
<b>Electrical (E)</b>	3-60-208/480V, 33HP
<b>Hot Water (HW)</b>	1½" NPT, 35-60 PSI, 30-50 GPM @ 140° F ± 5° F ( <i>fills only</i> ), HW 10-12 GPM continuous
<b>Cold Water (CW)*</b>	1½" NPT, 35-60 PSI, 35 GPM @ 50° F ± 5° F
<b>Steam (S)</b>	2" NPT, 45-80 PSI, Dynamic ± 5 PSI, 1800 #/Hr Flow Rate
<b>Steam (S2)</b>	2" NPT, 45-80 PSI, Dynamic ± 5 PSI, 1000 #/Hr Flow Rate
<b>Condensate (C)</b>	1" NPT (2 required)
<b>Air (A)</b>	½" NPT, 100-125 PSI, 1-2 CFM Flow Rate
<b>Drain (D)</b>	12" x 12" Floor Sink with 4" Floor Drain, 50 GPM Flow Rate ( <i>2 required</i> ) 18" ID Duct,
<b>Vent (V)</b>	2200 CFM, 2-3" WC SP, Saturated Vapor @ 180° F

\*S2 - Required if optional dryer package is ordered \*\*CW - Required if drain discharge cool-down package ordered

**Drawings**



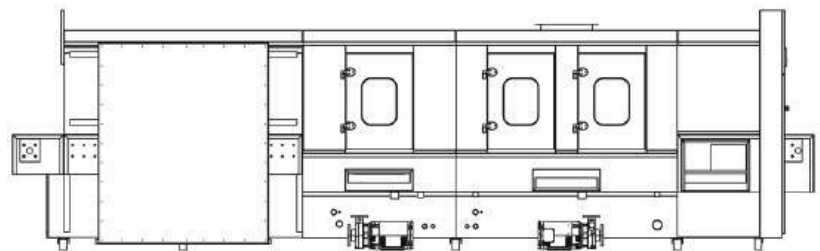
Top View



Front View



Side View



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Spire Integrated Solutions manufactures the LYNX brand of Vivarium Washing equipment.



## Tunnel Washers

### Model 554LX | 90" x 85"

**Conveyorized, hydro-spray washer designed to clean & dry animal heroes cages, lids, feeder bowls, bottles, and more.**

Model	Standard Tunnel Opening W x H (inches)	Standard Unit Size* W x H (inches)	Washer Lengths* (feet)	Standard Belt Width (feet)	Opt. Tunnel Heights* (inches)
554LX	55" x 25"	90" x 85"	15'-24' (with dryer)	54"	18", 25"

#### Features

- Splash Proof Access Doors
- 2-10 FPM Conveyor Drive Motor
- Integral Unitized Construction
- Removable Spray Headers
- Flat Wire Conveyor Belt
- Personnel Safety Features
- Automatic Control System
- Configurable Cycles
- Automatic Water Level Control
- Neutralization System
- Drawer Debris Screens
- 180° F Recirculated Temperature Guarantee
- Insulated Construction
- Hydraulic Hold-down System
- Incoming Utility Gauges
- SS Recirculation Piping and Components
- Non-proprietary Parts
- Automatic Tank Draining System
- De-scaling Cycle
- Final Rinse Modulating Steam Valve
- Automatic Self Cleaning Screen (wash)

#### Options

- Right or Left Hand Services
- LYNX OPTI-Flow™ Water and Energy Saving System
- Automatic Self Cleaning Screen (rinse)
- Discharge Roller Conveyors
- Integral Data Collection System
- Automatic Drain Discharge Cooldown System
- Low Steam Pressure Package
- Air Compressor
- Printer
- 7' Double Blower Drying System
- Seismic Tie Down
- Detergent Dispensing Systems
- pH Neutralization System
- Bedding Dispenser Controls
- Added Load End Extensions
- Integrated Bedding Dump Stations - Garb-el, Vacuum, Garbage Tote or Can
- Interior Illumination
- Barrier Wall Flange(s)

#### Construction

- The durable stainless steel belt is manufactured to withstand the weight and impact of heavy bottle wash racks and other large objects requiring processing.
- The system is designed to minimize water usage by reusing 100% of final rinse water in the prewash and tank top-off process. Recirculated water is heated by stainless steel steam coils to maintain and achieve guaranteed treatment temperatures.

### Accessories

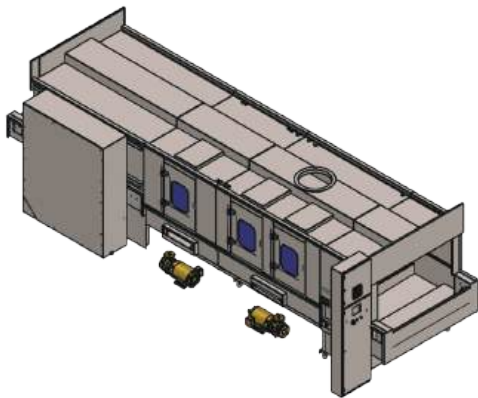
- Modular Walls

### Utilities

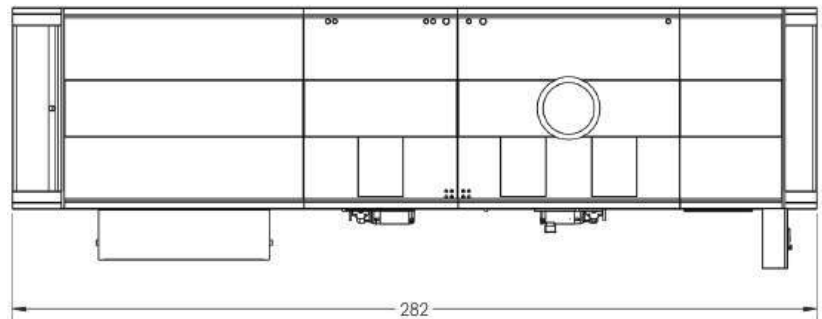
<b>Electrical (E)</b>	3-60-208/480V, 38HP
<b>Hot Water (HW)</b>	1½" NPT, 35-60 PSI, 30-50 GPM @ 140° F ± 5° F ( <i>fills only</i> ), HW 10-12 GPM continuous
<b>Cold Water (CW)*</b>	1½" NPT, 35-60 PSI, 35 GPM @ 50° F ± 5° F
<b>Steam (S)</b>	2" NPT, 45-80 PSI, Dynamic ± 5 PSI, 1800 #/Hr Flow Rate
<b>Steam (S2)</b>	2" NPT, 45-80 PSI, Dynamic ± 5 PSI, 1000 #/Hr Flow Rate
<b>Condensate (C)</b>	1" NPT (2 required)
<b>Air (A)</b>	½" NPT, 100-125 PSI, 1-2 CFM Flow Rate
<b>Drain (D)</b>	12" x 12" Floor Sink with 4" Floor Drain, 50 GPM Flow Rate ( <i>2 required</i> ) 18" ID Duct
<b>Vent (V)</b>	2200 CFM, 2-3" WC SP, Saturated Vapor @ 180° F

*\*S2 - Required if optional dryer package is ordered*  
*\*\*CW - Required if drain discharge cool-down package ordered*

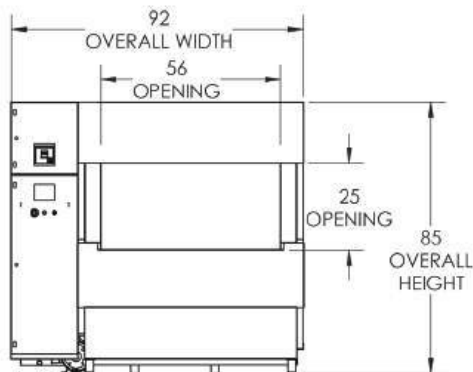
### Drawings



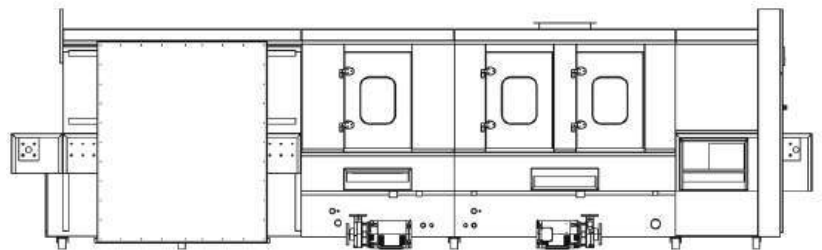
Top View



Front View



Side View



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# Sanitizing Misting Tunnel

Acts as a mobile or stationary unit offering 360 degrees of disinfection of items before it enters the laboratory.

Model	Tunnel Opening	Standard Unit Size
920LX	20" x 20"	33" W x 60" L x 59" H
924LX	24" x 24"	37" W x 60" H x 63" H
928LX	28" x 28"	41" W x 60" L x 67" H

## Features

- Full 360° Disinfectant Coverage
- Electric eye halts pump operation if no product is detected for a set time (conserves disinfectant).
- Push-button start on the load end.
- Nozzles with 200 mesh filters (easily removable for cleaning).
- 5-gallon capacity with drain valve, quick disconnects, in-line pump filter, and convenient fill funnel.
- Portable or Fixed Installation
- Stainless Steel Construction
- Adjustable Spray Volume
- Onboard Chemical and Waste Tanks
- Integrated Chemical Fill Funnel
- NEMA 4 Control Enclosure
- Built to NEC and UL Standards
- Photo-eye Activation Sensor
- Auto Shut Down Timer
- Low Chemical Alert & Warning Light
- High Waste Chemical Warning Light
- 5 Gallon Polyethylene Waste Tank
- 5 Gallon Polyethylene Chemical Tank
- Easy maintenance
- Plastic curtains on both ends minimize overspray.
- Tank level windows
- Emergency stop buttons on both ends; two-handed restart required.



## Easy to Use

1. Plug into a 110V GFCI outlet.
2. Add disinfectant chemical in the Fill Funnel Door.
3. Ready to sanitize your items.



Stainless steel conveyor belt



Fill door

## Construction

- 16 Gage #3 Polished 316 L Stainless Steel Chamber
- 316 L Stainless Steel Frame and Supports
- 110VAC, 1-PH, 60Hz, 3A - Standard Receptacle Plug
- 5" Lockable 304 Stainless Steel Swivel Casters
- Schedule 80 PC Piping
- Conveyor features dual 1" x 1" 316 stainless steel belts.



Waste tank viewing window

## Utilities

Electrical (E) 15A - 110VAC, GFCI protected outlet.

Fresh Water (FW) 5 gallons for chemical tank make-up.

## Options

- Bio-door (Pass-through)
- Expandable Conveyor: Add a load-end expandable roller conveyor (24" to 96") to increase processing capacity.



Optional Bio Door

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Spire Integrated Solutions manufactures the LYNX brand of Decontamination equipment.

# Decontamination Chamber

## Models 220BG | 240BG

This LYNX-brand vivarium decontamination chamber is a modular design that features the LYNX unique Smart Flow System.



For use with hydrogen peroxide or a chlorine dioxide sterilant.

Model	Standard Chamber Size W x H x D (inches)	Door Widths	Door Heights	Door Lengths
220BG	83 x 35 x 84	36, 48	85, 94, 96	85, 88, 92, 101, 111 116, 122, 135
240BG	48 x 85 x 141	36, 48	85, 94, 96	141, 146, 152, 164, 170, 176, 188+

### Features

- Made in the USA
- Single door
- A color touch screen operator interface.
- Data logging
- Micro-computer control system
- Internal Power Outlets for Recirculation Fans and Accessories
- Decontamination of heat and moisture-sensitive product loads.
- Dedicated air-tight chamber
- Designed for use with vapor or gaseous sterilant.
- Flexible door interlock system
- Illuminated interior
- Gas/vapor ports
- Active seal air-tight door(s)
- Micro-computer control system

### Construction

- Modular
- Constructed of 304 stainless steel
- May be pit-mounted or floor-mounted
- Low-profile ramps for ease of loading and unloading.

### Accessories

- Transfer carts
- Modular walls
- Barrier wall flanges

### Options

- Pass-thru configuration
- Door interlock system
- 316L stainless steel construction
- Right or left hand services
- Exhaust fan
- Split base
- Air compressor
- Seismic tie down
- Vapor or gas generator integration
- Gas or vapor scrubbers
- Floor or pit mounted

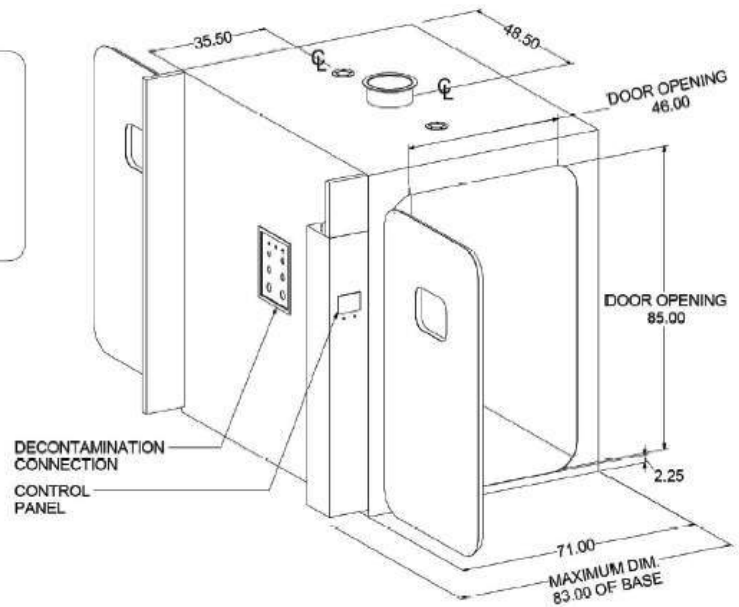
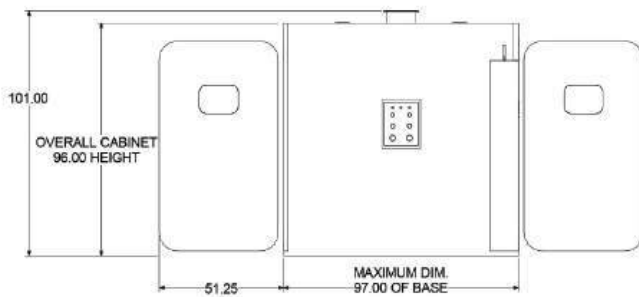


### Utilities

<b>Electrical (E)</b>	120 VAC, 40A
<b>Drain (D)</b>	2" floor drain port (optional)
<b>Vent (V)</b>	12" ID duct, 250 CFM
<b>Air (A)</b>	1/2" NPT, 80 PSI +/- 5, 2-3 CFM flow rate



### Drawings



*\*Note: Chamber can be designed to any size to meet new or existing applications.*

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Spire Integrated Solutions manufactures the CSI Jewett brand of necropsy workstations.

## Customizable Necropsy Grossing Workstations



Spire Integrated Solutions manufactures the CSI Jewett brand of necropsy workstations.

# Necropsy Grossing Workstation MODEL COMPARISON



UNIT CONFIGURATION	AR943	JNT	JNE	JDT	JDD	JDB
Desk approach	●				●	●
Double approach, dual pedestal		●	●			
Drop in, counter				●		
<b>ELEVATION</b>						
Fixed height	●	●		●	●	●
Elevating work surface	Opt		●		Opt	Opt
<b>VENTILATION</b>						
Backdraft	●					●
Downdraft		●	●	●	●	●
<b>FEATURES &amp; OPTIONS</b>						
Stainless steel construction	●	●	●	●	●	●
Perforated dissecting grid plates - removable	●	●	●	●	●	●
Flushing system	●	●	●	Opt	●	●
Chrome-plated brass faucet - hot & cold wrist blades	●	●	●	●	●	●
Swivel goose neck spout	●	●	●	●	●	●
Lever waste drain control for sink	●	●	●	●	●	●
Spray hose	●	●	●	●	●	●
Base cabinet	Opt			Opt	Opt	Opt
Waste disposer	Opt	Opt	Opt	Opt	Opt	Opt
GFCI Outlet	●	●	●	●	●	●
Scale bracket	Opt	Opt	Opt	Opt	Opt	Opt
Emergency eye wash	Opt	Opt	Opt	Opt	Opt	Opt
Left or right sink location	Opt	Opt	Opt	Opt	Opt	Opt
Magnifying task light	Opt	Opt	Opt	Opt	Opt	Opt
Air, gas & vacuum valves	Opt	Opt	Opt	Opt	Opt	Opt
UL listed	●	●	●	●	●	●
Custom fabrication	●	●	●	●	●	●

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[Question?](#)

Spire Integrated Solutions manufactures the CSI Jewett brand necropsy grossing workstations.

Customizable  
**Necropsy Grossing Workstation**  
**AR943**

**This durable and economical workstation, in 3 sizes, with full-width air vent, may be customized to meet the needs of your facility.**



MODEL	Dimensions W x D x H   inches
AR943	48 x 30 x 41
AR943-60	60 x 30 x 41
AR943-72	72 x 30 x 41

**Features**

- Made in the USA
- Drain trough includes flushing system and removable dissection grid plates.
- Unit includes a large capacity, multi-directional adjustable ventilation grill.
- Chrome-plated brass faucet has hot and cold water flow control wrist blades & a swivel goose neck spout with integrated vacuum breaker.
- A lever handle provides waste drain control for the sink (deleted with disposer).
- UL listed
- Backdraft ventilation with full-width air vent to connect to the building system
- Large radius inside corners that reduces accumulation of tissue and debris.

**Construction**

- The sink top, basin, drain board, and backsplash are constructed of welded, 14-gauge stainless steel.
- Heavy-gauge polished stainless steel legs and welded cross-rails constructed to handle heavy use.
- Top, back, sides and shelves are made of 14-gauge, Type 304 stainless steel, polished on exposed and visible surfaces.

**Options**

- Elevating height adjustment
- Spray hose with palm operated water control
- Task light with switch - various models available
- Base cabinet
- Flushing system
- Factory installed waste disposer with automatic water control  
1 hp motors are available (others on request)
- Air, gas and vacuum valves (SR2147-02)
- GFCI outlet
- Scale bracket
- Emergency eye wash
- Customizable

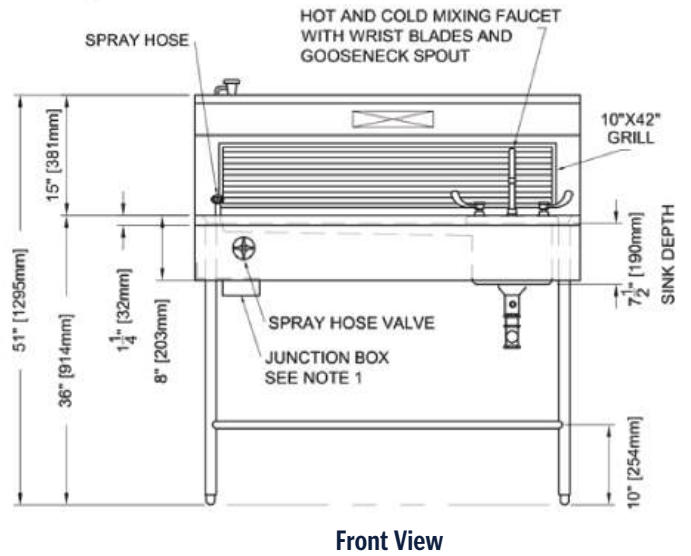
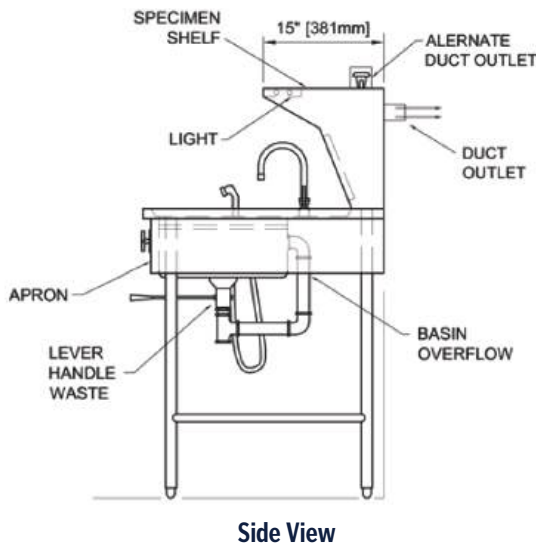
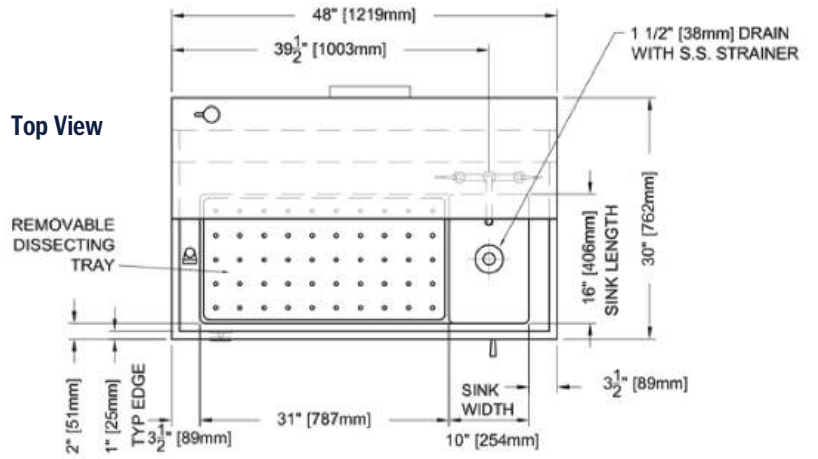


Under work surface  
rinse bar.



(Optional) LED magnifying  
task light

Drawings



Question?

## Necropsy Grossing Workstation JD Series

**This compact, shelved workstation, with an optional elevating work surface & adjustable height, is customizable to meet the needs of your facility.**

MODEL	Dimensions W x D x H   inches
JD	48 x 38 x 84

### Features

- Made in the USA
- Removable stainless steel dissecting grid plates located over drain trough.
- Unit includes a large capacity, multi-directional adjustable ventilation grill.
- Exhaust connection with adjustable damper
- Polished surface for easy cleaning
- Wrist-operated, chrome-plated, brass faucets with hot and cold water control valves and swivel goose neck spout.
- Lever-handle, waste drain control for the sink

### Construction

- Welded sanitary type 316 stainless steel construction with large radius corners for easy cleaning.
- Heavy-gauge polished stainless steel legs and welded cross-rails constructed to handle heavy use.
- Sink top, basin, drain board, & back splash are made of one-piece, welded, 14-gauge stainless steel.

### Options

- Elevating work surface
- Spray hose with palm operated water control
- Task light with switch - various models available
- Waste disposers - 1/2 to 1.5 hp
- Base cabinet
- Flushing system
- Adjustable height
- Air, gas and vacuum valves (SR2147-02)
- Emergency eye wash
- Customization
- GFCI outlet
- Scale bracket



Downdraft ventilation work surface

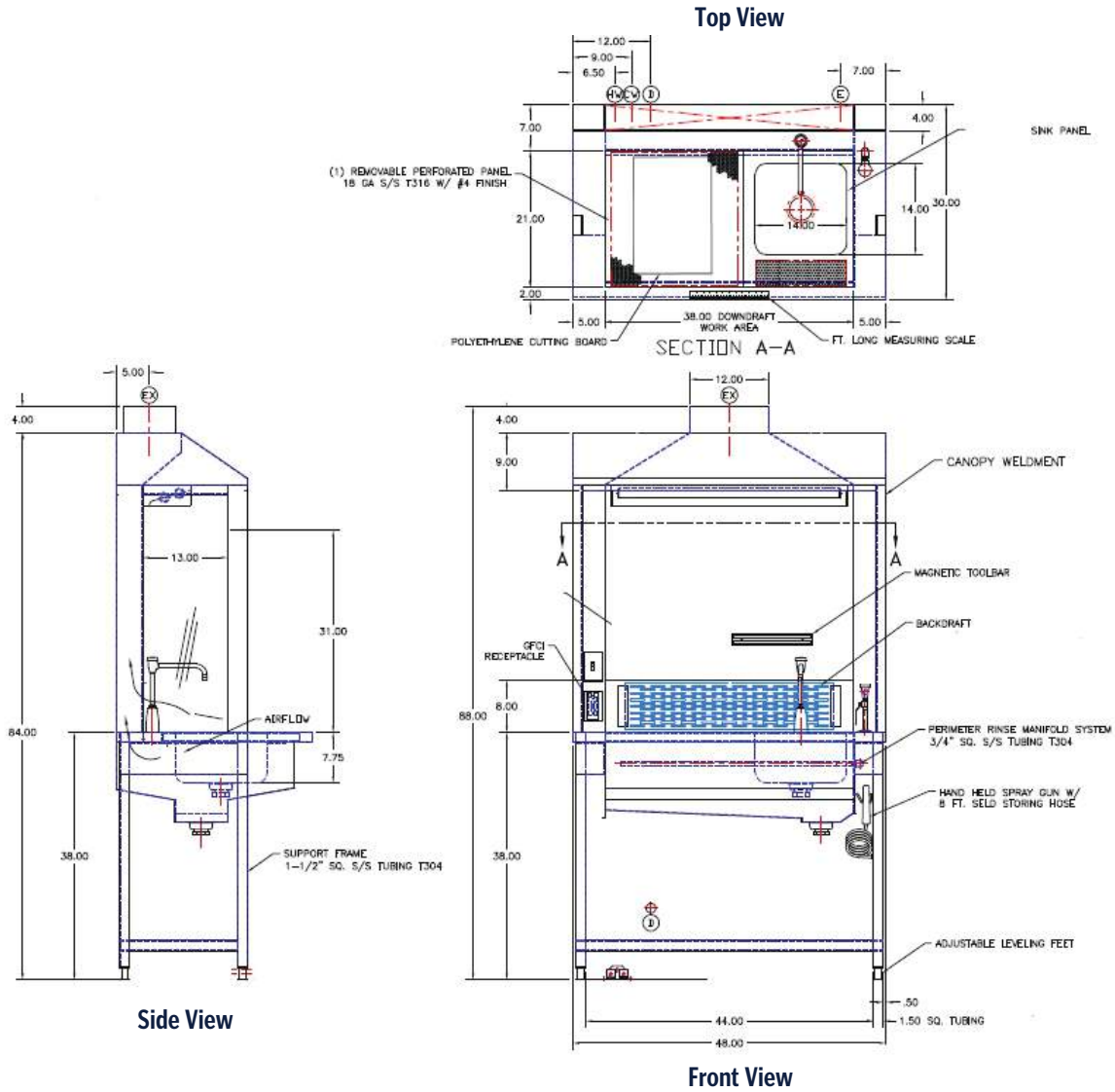


Perforated work surface with down draft ventilation.



Large radius corners on interior surfaces for easy cleaning & reduction of tissue & debris accumulation.

Drawings



Question?

Spire Integrated Solutions manufactures the CSI Jewett brand necropsy workstations.

## Necropsy Grossing Workstation JNE Series

**Downdraft work surface for tissue preparation, organ dissection, slide preparation, specimen examination and other procedures.**



Available in a fixed or elevating, downdraft work surface.

DIMENSIONS	Widths	Lengths	Height
JNE Series	30", 36", 42"	48", 60", 72"	Elevating work surface with a 32" - 40" range

### Features

- Made in the USA
- The downdraft work surface helps reduce airborne particles.
- Sink features large radius inside corners to reduce accumulation of tissue and debris.
- Drain trough includes flushing system and removable dissection grid plates.
- The chrome-plated brass faucet has hot and cold water flow.
- Faucet has control wrist blades and a swivel goose neck spout.
- A lever handle provides waste drain control for the sink (deleted with disposer).
- UL listed
- Coiled spray hose
- Downdraft ventilation exhaust duct with damper to connect to the building system
- Perforated dissecting grid plates are removable & includes flushing system.

### Construction

- Constructed of welded, sanitary-type stainless steel.
- The top, back, sides and shelves made from 14-gauge type stainless steel.
- The sink top, basin, and drain board necropsy workstations are welded, 14-gauge stainless steel in a single piece allowing for seamless and sturdy construction.
- Dual pedestal design conceals mechanicals and provides stability.

### Options

- Customization
- Additional cage wash rack shelves
- Additional pan wash rack shelves
- Additional general purpose rack shelves
- 316 stainless steel construction
- Elevating work surface (JNE Series)
- Spray hose with palm-operated water control
- Factory installed waste disposer with automatic water control
- 1 hp motors are available (others on request)
- Task light with switch – various models available
- Left or right sink location
- Base cabinet
- GFCI outlet
- Scale bracket
- Emergency eye wash
- Air, gas and vacuum valves (SR2147-02)



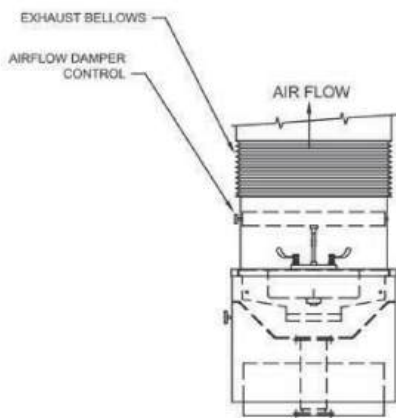
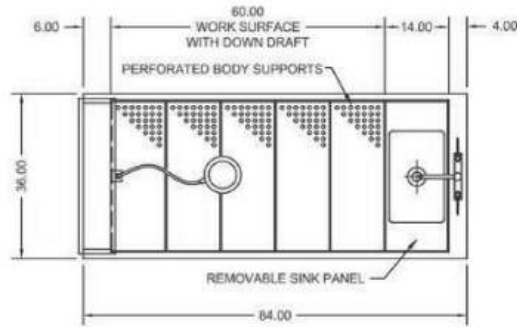
Sink with radiused corners, & gooseneck spout.



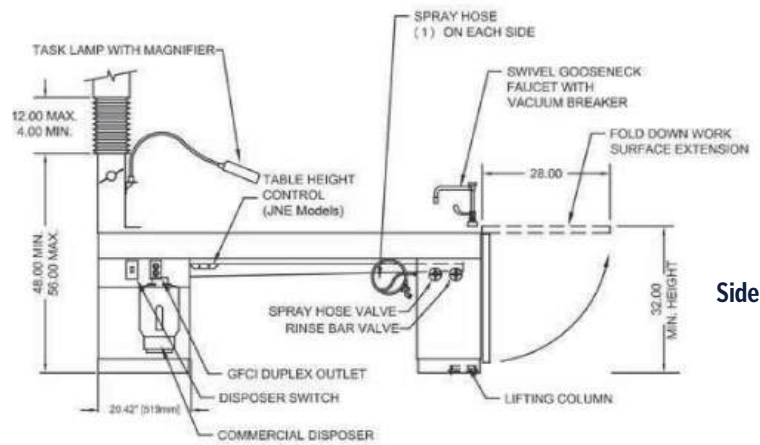
Front panel features control panel with coiled spray hose, hot & cold water control knobs, a GFCI outlet, & a disposer switch.

Drawings

Top View



End View



Side View

Question?

Spire Integrated Solutions manufactures the CSI Jewett brand necropsy workstations.

# Necropsy Grossing Workstation JNT Series

This popular, durable & economical, fixed workstation with a downdraft work surface is customizable and preferred by histologists nationwide.



Fixed workstation with optional elevating workstation

DIMENSIONS	Widths	Lengths	Height
JNT Series	30", 36", 42"	48", 60", 72"	Fixed 36" work surface

### Features

- Removable stainless steel dissecting grid plates, located over the drain trough, with flushing system.
- Wrist-operated, chrome-plated brass faucet with hot and cold water control valves and swivel goose neck spout.
- Exhaust connection with adjustable damper
- Polished surface for easy cleaning
- Lever-handle, sink waste drain control



Sink with radiused corners with wrist-operated faucet with hot & cold water controls.

### Construction

- Sink top, basin, drain board, & back splash are made of one-piece, welded, 14-gauge, type 316 stainless steel.
- Heavy-gauge polished stainless steel legs and welded cross rails to handle heavy usage.
- Welded sanitary type 304 stainless steel construction with large radius inside corners for easy cleaning.



Front panel features a coiled spray hose, hot & cold water control knobs, with optional GFCI outlet, & a disposer switch.

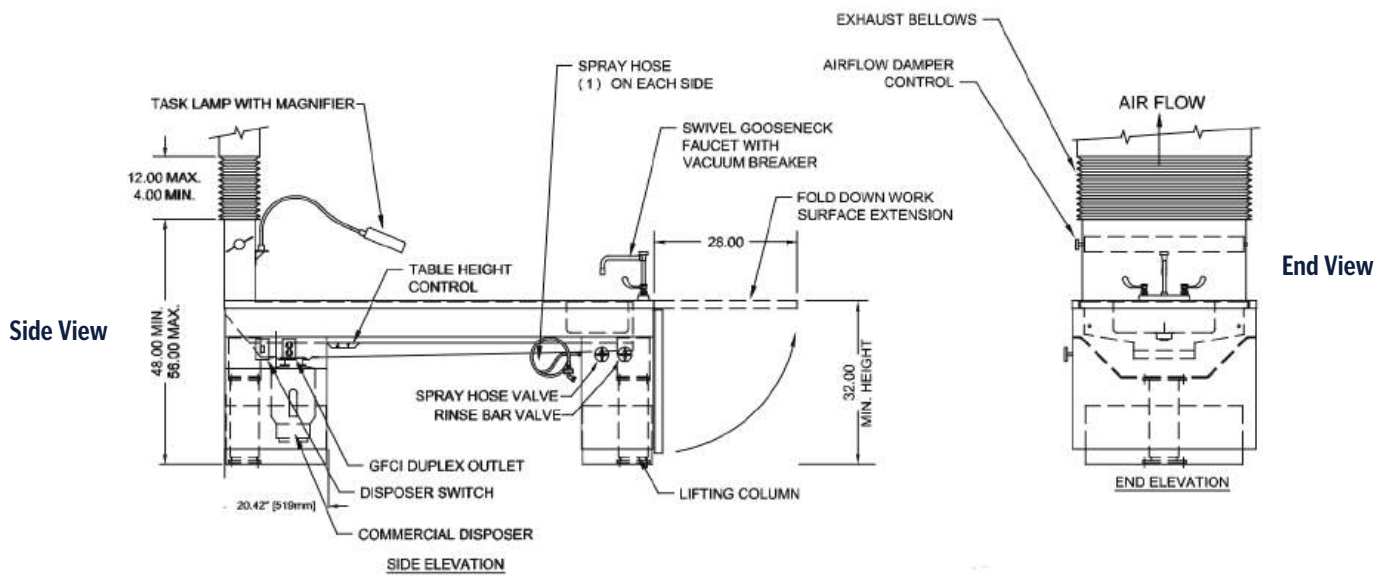
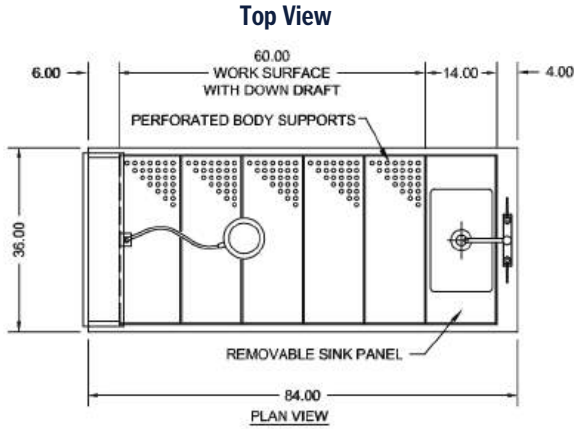
### Options

- 316 Stainless steel construction
- Elevating work surface
- Spray hose with palm operated water control
- Waste disposers—1/2 to 1.5 hp
- Task light with switch
- Base cabinet
- Waste disposer
- GFCI Outlet
- Scale bracket
- Emergency eye wash
- Air, gas and vacuum valves (SR2147-02)
- Customizable

Exhaust connection with adjustable damper.



Drawings



Question?



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Question?

Spire Integrated Solutions manufactures the CSI Jewett brand cold storage equipment.

## Customizable Cold Storage

- Custom-size configurations
- Cadaver / specimen storage
- Reagent storage
- Temperature controlled work area
- Precise temperature control
- Temperature monitoring for verification
- Storage for cadavers, specimens & reagents
- Integration into Building Management Systems (BMS) Engineered with green features.

### Features

- Door heater
- Chrome plated hardware
- Keyed latch
- Card holder
- Dart style gasket (replaceable)
- Heavy-gauge, polished stainless steel (sides, backs, tops, interior walls).
- Fast response to changes in cabinet temperature, ambient conditions, product loadings and door openings.
- Ceiling composed of stucco embossed aluminum.
- Tongue-in-groove style panels for sure-fitting.
- Tight-seal wall construction.
- Hermetically sealed compressors
- Engineered refrigeration systems
- Temperature uniformity
- Custom-designed equipment capacities and configurations
- Choice of self-contained or remote mechanical system.

**Spire Integrated Solutions consults with your Vivarium team to assess your cold storage needs from initial inquiry to final installation.**



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## Custom Manufactured Modular Barrier Walls

**U-shaped channel construction allows the installer to cut-to-fit (right on-site!).**

Modular walls can be used to either close out a service area behind a single-sided piece of equipment or create a physical barrier between pass-through equipment such as an autoclave, cage, rack washer, or tunnel washer.

- Efficient means of separating dirty from clean environments.
- Provides noise reduction in clean side environments.
- It can be quickly erected and customized for cage wash facilities.

### Construction

- Customized construction
- 1-year warranty
- 16-gauge, #4 brushed vertical grain 304 stainless steel in standard widths.
- Panels fit side-by-side with a removable locking system (behind the modular wall) to provide rigidity.
- The modular wall system comprises standard U-channels attached to the walls, floor, and ceiling.
- Panels are mounted and secured into the U-channels.
- Panels will be placed on site at an angle on the top U-channel and then on the lower U-channel.
- First panel slides into the left or right U-channels.
- Subsequent panels will be mounted side-by-side.
- U-channels, shipped in standard lengths, allow the installer to cut to fit-on-site.
- Installation can be performed easily by either our Authorized Service Agents or local sheet metal contractors.

### Options

- Louvered vents
- Service doors
- Viewing windows
- Ceiling panels
- Drip panels for bulkheads
- Single-sided
- Double-sided
- Insulated



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