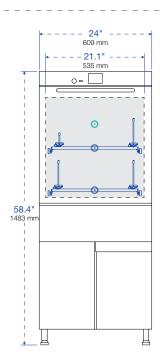
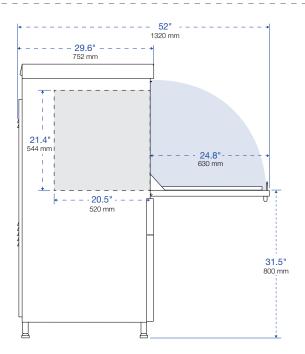
ULTIMA series model 910 LX

laboratory washer/dryer

DATASHEET







Base Model ULTIMA series 910 LX

Door Configuration

Fold-down door is made of solid 316L stainless steel. Optional View-In-Process (VIP) window provides a view inside the chamber.

- Water Per Fill 3.4 gal (13 L)
- Interior Dimensions (w × h × d) 21" × 21.4" × 20.5" (535 × 544 × 520 mm)
- Exterior Dimensions (w × h × d) 24" × 58.4" × 29.6"

 $(609 \times 1483 \times 752 \text{ mm})$

Wash Programs4 Presets,36 Custom Settings

Cycle Functions
 Wash Temp: 95°C / 203°F

Drying: Forced-air Chamber, Injectors, HEPA Filtered

- Weight 315 lb. (143 kg)
- Effective Chamber Volume 5.7 cu.ft.



Lancer model 910 LX labware washer; shown with optional View-In-Process (VIP) window.

Drawings display front and side of unit with door swing allowance.

General Specifications

General Features

Fold-down Door

- Counterbalanced for ease of operation
- Ensures proper rack placement and connection to manifold
- Manufactured of solid 316L stainless steel
- Fully insulated to reduce heat loss and noise
- · Provides sturdy loading platform, improving ergonomics

Fully Extendable, Load-Bearing Arms

Support jet racks for loading and unloading of glassware

Storage System

 On-board chemical storage drawer for two 10 L standard bottles, minimizes chemical handling and exposure

Spray System

- Spray arms made of sanitary high-grade 316L stainless steel
- · Easily disassembled for cleaning and maintenance

System Wash Levels

- Up to two levels with three positions to increase wash configurations
- Rack accessories are independent and easily removed for use on all levels
- Racks are interchangeable among ULTIMA series models 810 LX, 815 LX, 820 LX, 1300 LX and 1800 LXA

Drying System

- Dryer incorporates 53 W fans to blow heated air through the chamber and through the injectors
- 2.4 kW heating elements and blower

Main Recirculation Pump

Capacity of 92 gal/min (350 L/min)

Filter System

- · Multi-chamber filters easily removed for cleaning
- Multi-chamber filters on all incoming water lines

Automatic Peristaltic Dosing Pumps

Provides precise addition of chemical agents

Liquid Level Sensor

 Indicates low volume in detergent and acid additive reservoirs.

Wash Solution Heating System

 9 kW electric heating elements provide heat up to 95°C (203°F)

Electronic Thermostat

 Independent selection of temperature for prewash, wash and final rinse between ambient and 95°C (203°F)

Temperature Probe

• Integrated Pt-1000 temperature probe, user programmable

Water Softener

 Softens incoming cold and hot water to prolong and improve efficiency in hard water areas, automatic regeneration after each wash cycle with low salt alarm

Water Level Sensors

- Two independent sensors control chamber water level and prevent overflow
- Automatically adjust fill volume to optimal level based on chamber load

Controls

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- 3.5" Prolux programmable microprocessor controller
- Intuitive touchscreen user interface
- Real-time cycle performance

Communication and Connectivity

- Front panel USB port
- Ethernet port
- RS422/485

Programming

- User programmable with four preset programs and 36 user defined programs
- Passcode protected access levels

System Monitoring

- Audible and visual alarms provide quality control for each wash cycle
- Self-diagnostic software provides real-time monitoring
- Alarm history

Programming and Cycle Operation

1-Prewash: Select number of prewashes (0-3), duration of prewash (up to 30 minutes), temperature of water (up to 95°C / 203°F) and detergent dosing time. User can select cold or hot or DI water.

2-Wash: Select duration of wash (up to 30 minutes), detergent dosing time and temperature of water (up to 95°C / 203°F). User can select cold or hot or DI water.

3-Rinse A: Select number of rinses (0-9). Duration of rinse (up to 30 minutes), temperature of water (up to 95°C / 203°F). User can select cold or hot or purified water.

4-Acid Rinse: Select duration of rinse (up to 30 minutes). Acid dosing time and temperature of water (up to 95°C / 203°F). User can select cold or hot or purified water.

5-Rinse B: Select number of rinses (0-9). Duration of rinse (up to 30 minutes), temperature of water (up to 95°C / 203°F). User can select cold or hot or purified water.

6-DI Rinse: Up to 4. Duration of rinse (up to 30 minutes), temperature of water (up to 95°C/203°F). User can select cold or purified water.

7-Final rinse: Duration of rinse (up to 30 minutes), temperature of water (up to 95°C / 203°F).

8-Drying: Adjustable time up to 90 minutes, and mode to include heated forced-air injection drying.

9-Cooling: Duration of cooling (up to 30 minutes).

Construction

Wash chamber and door

- Constructed of AISI 316L stainless steel
- High-grade finish, electronically-welded under Argon protection

Components

 Constructed of stainless steel or other materials impervious to the effects of detergents, additives and general laboratory chemical residues

Insulation

- · Synthetic, rubber-based closed cell foam
- · Guards against heat loss and reduces noise

Safety Features

- Door interlock prevents interference with wash cycle once it is in operation.
- Fold-down door is counterbalanced for safe operation.

Optional Features

Features		910 LX
Discharge Water Cooling	Reduces effluent temperature to less than 60°C (140°F) for code compliant transfer to utility drain.	0
pH Programming	Neutralizes effluent before transfer to utility drain.	0
External Printer, Externally Mounted	Installs by direct connection to washer port. Generates 2.25" (57 mm) thermal strip record of washer function.	0
Communication / Control Dry contact	Programmable output for external communication / control of external equipment (i.e.: exhaust fan, alarm light, cycle light	0
Condenser	Removes steam vapor when chamber temperature exceeds 50°C (122°F).	0
IQ/OQ Validation	Includes documentation verification, review of accessories/options, review of equipment installation, verification of utility supplies, review of access levels, review of configuration settings, I/O testing, functional testing, alarm testing and a complete cycle test.	0
Utilities		910 LX
Low Pressure Kit	Boosts DI water supply input pressure to assure optimum performance.	0
Gravity Drop Drain	Pneumatic valve to discharge wastewater to floor level drain.	0
Construction		910 LX
Preventive Maintenance	Annual Preventive Maintenance agreements ensure optimum washer/dryer performance and extend equipment life. Contact us for details.	0
View-In-Process Window (VIP)	Includes interior light, permitting visual verification during wash cycles.	0

Utility Requirements

Utility	Characteristic	Connection	Consumption
Water • cold	Pressure: 200 to 600 kPa 29 to 87 psi	Male threaded:	3.4 gal (13 L)
• hot	Flow: 5.25 gpm (20 L/min)	3/4" (20/27)	per fill
• DI	Temperature: Ambient up to 50°C (122°F)		
Compressed air (if option selected) Drop drain (pneumatic valve)	Pressure: 500 to 700 kPa 70 to 100 psi	Shut off valve with 3/6" hose barb fitting	Minimal consumption
Electricity	Voltage: request Frequency: 60Hz		See Electrical Table
Vapor exhaust	Atmospheric Exhaust Hood located 12" (300) to 40" (1000 mm) above exhaust pipe *Refer to installation manual		
Vapor oxidadi.	Discharge Flow Rate: 40 CFM Max temp.: 95°C (203°F) Max Relative Humidity: 95%		
Drain	Fixed standpipe and plumbing trap Height above floor: from 31" (800 mm) to 35" (900 mm)	Inner Diameter: 1½" (40 mm)	Required to handle 10.5 gpm (40 L/min) max temp 95°C (203°F)

Frequency (standard models)	kW	Amps	Breaker Size
208V, 60Hz, 3-phase	10	28	35
208V, 60Hz, 1-phase	7	34	40

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