

LABEXIA 820 LX

Glassware Washer-Dryer

LANCER



Construction and Design



The **820 LX Undercounter Washer-Dryer** fits under the same space as a standard, domestic dishwasher but has professional features and stainless steel construction for durability.

Complete cleaning is obtained with water circulated in the chamber via spray arms as well as through injectors directly inside of glassware.

Chamber and exterior: AISI-304 L stainless steel (ss on all six sides - stand-alone or undercounter installation ready)

- Double wall insulation: provides thermal and sound protection
- Telescopic rails are load bearing for easy loading and unloading

Detergent delivery system: liquid detergent automatically injected into wash chamber via peristaltic pump according to programmable parameters.

Acid Neutralizer delivery system: liquid acid neutralizer automatically injected into wash chamber via peristaltic pump according to programmable parameters.

Low level chemical alarms (visual and audible alerts) indicate when chemical levels are low.

Two independent wash levels:

- Provides automatic connection of loading accessories (basic basket, injector racks)
- Racks interchangeable between levels
- Glassware determines rack placement and position

Microprocessor Control

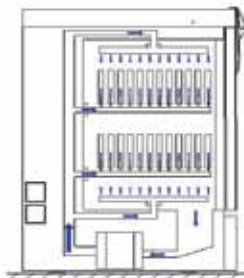
Easy selection of 42 standard washing programs for numerous applications including:

- Chemistry glassware
- Bacteriology/virology (high temperature)
- Stubborn stains (agar)
- Volumetric glassware (low-temp)
- Many others

Easily **adjustable parameters** (password-protected access) including: program phases, temperature and time of each phase and cleaning chemical dosing.

Self-diagnostic program, with visual and audible alarms, alerts the user in the event of a malfunction enabling quick troubleshooting and maintenance.

Mechanical Washing System



Washing system provides uniform wash/rinse solution on all levels.

Superior hydraulic design:

- Racks connect to hydraulic circuit via automatic, low profile valves
- Rear rack connections allow for maximum use of chamber volume
- Door holds racks in place ensuring positive rack connection and efficient flow of wash/rinse solution

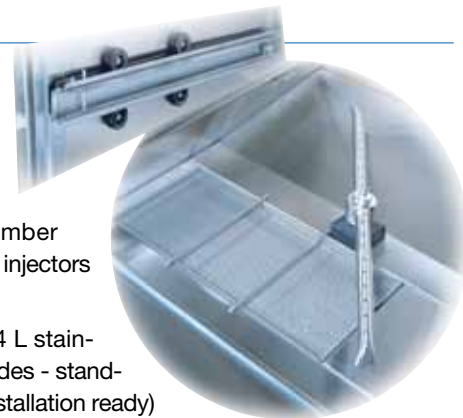
Top and bottom spray arms ensure complete washing and rinsing of glassware exterior, interior of large mouthed glassware and wash chamber. Programmable water rinses for **hot, cold and hot/cold DI water**.

Cleaning Chemicals

Available exclusively from Lancer, our premixed detergents and acid neutralizers are specifically made for use in all high pressure washers.

LANCERCLEAN Detergent: 3 Formulas (Potassium Hydroxide Based, Sodium Hydroxide Based, pH Neutral)

LANCERACID Rinse: 3 Formulas (Acetic Acid Based, Citric Acid Based, Phosphoric Acid Based)



Technical Data and Utilities

Overall Dimensions	33.27 H x 35.43 W x 27.55 D (in) 845 H x 900 W x 700 D (mm)	Total Electric Power	7 kW
Chamber Dimensions	20 H x 21 W x 20 D (in) 508 H x 535 W x 510 D (mm)	Drainage	Drain pipe diameter 1.5 inches, 20 to 37 inches from floor
Wash Levels	1 to 2	Voltage	208 V-3 Ph, 208 V-1 Ph
Water Consumption	3.1 gal (12 L) per fill	Net Weight	254 lbs
Recirculation Pump (flow rate)	92 gal/min (350 L/min)	Heat Loss	3,054 Btu/hr (770 Kcal/hr)
Heating	6 kw	Noise Level	<65 dBA
Drying	1.8 kW	Water Supply (Cold, Hot, DI) Connection Flow Pressure	¾ inch hose thread 20 L/min (5 ¼ gal/min) 29-87 psig

Multiple Loading Configurations



Two Independent Wash Levels allow for flexibility of multiple types of glassware, in a single load, to fit your specific application.

Upper level rack can be removed to accommodate for taller glassware on lower level.

Features and Options

HEPA Filtered Injector Drying System: Complete and rapid drying of glassware with HEPA filtered forced air inside the washer chamber and directed into the glassware via rack injectors.

On board chemical storage is provided via front loading chemical drawer.

Steam condenser is a standard feature which:

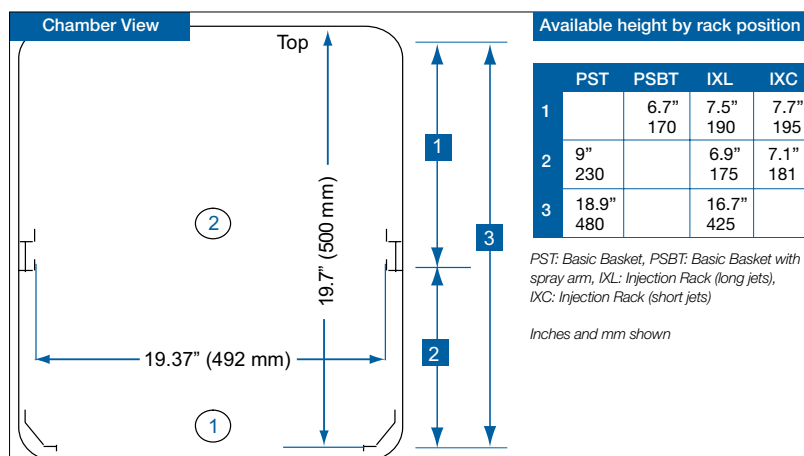
- Prevents build up of condensation
- Prevents damage to casework
- Extracts residual moisture from glassware reducing drying time

Plinth (stainless steel base cabinet - optional) increases the loading height of the washer by 29.5 inches and allows for extra storage under the washer chamber.

Other available options include: Drain discharge cool down, low pressure valve, door lock, pH neutralization and IQ/OQ protocol. Contact Lancer for further details on these and other accessories and options.

Accessories

Wide range of accessories: If your lab needs higher throughput, the Labexia 820 LX will easily adapt to your needs, as a myriad of accessories will enable you to wash—on 2 independent levels—pipettes, volumetric flasks, etc. Lancer has the optimal accessory for your application. (See rack catalog for further accessory options.)



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