

LABEXIA 1600 LXP

Glassware Washer / Dryer

LANCER



Construction and Design



The **1600 LXP Washer-Dryer** provides professional features and is constructed of stainless steel for maximum durability.

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

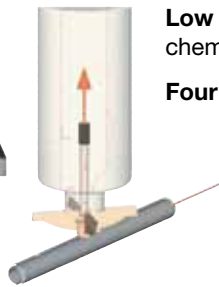
Chamber and door: AISI-316L stainless steel

Exterior panels: AISI-304L stainless steel

- 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.

Four independent wash levels:

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



Microprocessor Control

Easy selection of 40 standard washing programs for numerous applications including:

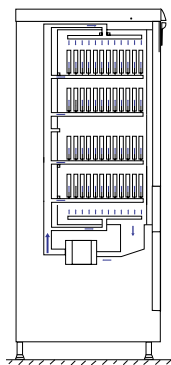
- Chemistry glassware
- Bacteriology / virology (high temperature)
- Stubborn stains (agar)
- Volumetric glassware (low-temp)
- Custom Applications

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 securely in place ensuring positive rack connection and efficient flow of wash / rinse solution

Top and bottom spray arms ensure thorough 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)

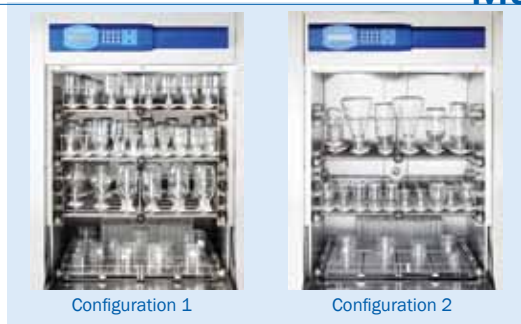
LANCERACID Rinse: 3 Formulas (Acetic Acid Based, Citric Acid Based, Phosphoric Acid Based)



Technical Data and Utilities

Overall Dimensions	71.46 H x 34.09 W x 34.72 D (in) 1815 H x 866 W x 882 D (mm)	Total Electric Power	21 kW
Chamber Dimensions	33.66 H x 25.79 W x 25.98 D (in) 855 H x 655 W x 660 D (mm)	Drainage	Drain pipe diameter 1.5 inches, 31 to 35 inches from floor
Wash Levels	1 to 4 with upper level height adjustable (5 positions)	Voltage	208 V-3 Ph, 230 V-3 Ph, 480 V-3 Ph
Water Consumption	7.9-9.2 gallons (30-35 L)	Net Weight	474 lbs
Recirculation Pump (flow rate)	198 gal/min (750 L/min)	Heat Loss	5,950 Btu/hr (1500 Kcal/hr)
Heating	18 kW	Noise Level	<69 dBa
Drying	4.2 kW	Water Supply (Cold, Hot, DI) Connection	¾ inch hose thread
		Flow	20 L/min (5 ¼ gal/min)
		Pressure	29-87 psig (200 to 600 KPa)

Multiple Loading Configurations



Four Independent Wash Levels with five loading positions allow for flexibility of multiple types of glassware in a single load to fit your specific application. The images to the left are just two possible examples of load configurations.

Adjustable height on upper level (3 positions) accommodates for taller glassware on the middle levels.

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. Temperature is adjustable in 1°C increments up to 110°C.

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

Other available options include: Drain discharge cool down, low pressure valve, emergency stop button, printer, dosing pumps (up to 3), steam condenser, steam heating, pH neutralization, height extension, gravity drain 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 1600 LXP will easily adapt to your needs, as a myriad of accessories will enable you to wash—on 4 independent levels—pipettes, volumetric flasks, etc. Lancer has the optimal accessory for your application. (See rack catalog for further accessory options.)

Chamber View		Available height by rack position								
Top		PST	PSBT	IXL	IXC		PST	PSBT	IXL	IXC
	1					9	13.18"		11.06"	
	2	2.95"			5.15"	10			22.83"	
	3	75			131				281	
	4	2.99"			5.2"	11		7.05"	8.62"	9.25"
	5	76			132			179	219	235
	6				2.55"	12		12.12"	13.70"	
	7				65			308	348	
	8	8.11"		5.98"	6.61"	13		4.40"	5.98"	6.61"
	206		152	168			112	152	168	
9		10.66"	12.24"		14		19.80"	21.37"		
		271	311				503	543		
10	17.24"		15.11"		15		32.63"	30.51"		
	438		384				829	775		
11		15.31"	16.88"							
		389	429							

PST: Basic Basket, PSBT: Basic Basket with spray arm, IXL: Injection Rack (long jets), IXC: Injection Rack (short jets) | Inches and mm shown

LANCER

LANCER USA Inc.
3543 State Rd. 419
Winter Springs, FL 32708

Toll Free: (800)332-1855
Phone: (407)327-8488
Fax: (407)327-1229

sales@lancer.com
www.lancer.com