

# LABEXIA 1600 LXP

Glassware Washer / Dryer

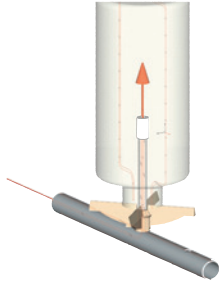
# LANCER



## 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.

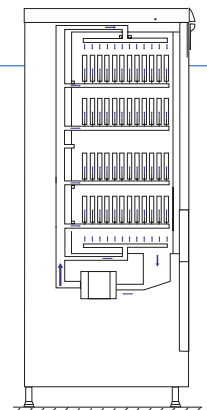
## Mechanical Washing System

**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

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

## 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.

## 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.

**Adjustable height** on upper level (2 positions) accommodates for taller glassware on the middle levels.

## Accessories

### 1600 LXP

Chamber view and available basket heights  
(Inches and mm shown)

Chamber View

Chamber View diagram showing dimensions and numbered loading positions. The chamber is rectangular with a height of 33.66" (855mm) and a width of 25.79" (655 mm). The diagram includes a top view with numbered circles 1 through 5 indicating specific loading positions. A detailed side view shows 15 numbered arrows (1-15) indicating the vertical positions of the baskets within the chamber, with arrows pointing both up and down to show the range of movement.

Available Basket Heights

|   | PST           | PSBT          | IXL           | IXC          |    | PST           | PSBT          | IXL           | IXC          |
|---|---------------|---------------|---------------|--------------|----|---------------|---------------|---------------|--------------|
| 1 |               | 2.95"<br>75   |               | 5.15"<br>131 | 9  | 13.18"<br>335 |               | 11.06"<br>281 |              |
| 2 |               | 2.99"<br>76   |               | 5.2"<br>132  | 10 |               |               | 22.83"<br>580 |              |
| 3 |               |               |               |              | 11 |               | 7.05"<br>179  | 8.62"<br>219  | 9.25"<br>235 |
| 4 |               |               |               | 2.55"<br>65  | 12 |               | 12.12"<br>308 | 13.70"<br>348 |              |
| 5 | 8.11"<br>206  |               | 5.98"<br>152  | 6.61"<br>168 | 13 |               | 4.40"<br>112  | 5.98"<br>152  | 6.61"<br>168 |
| 6 |               | 10.66"<br>271 | 12.24"<br>311 |              | 14 |               | 19.80"<br>503 | 21.37"<br>543 |              |
| 7 | 17.24"<br>438 |               | 15.11"<br>384 |              | 15 | 32.63"<br>829 |               | 30.51"<br>775 |              |
| 8 |               | 15.31"<br>389 | 16.88"<br>429 |              |    |               |               |               |              |

PST: Basic Basket, PSBT: Basic Basket w/ spray arm  
IXL: Injection Rack (long jets), IXC: Injection Rack (short jets)

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**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.](#))

# LANCER

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