

Construction and Design

The 1300 LX Washer-Dryer stands upright and 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 door: AISI - 316 L stainless steel Exterior panels: AISI - 304 L 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.

Three independent wash levels:

- Provide automatic connection of loading accessories (basic basket, injector racks)
 - Racks interchangeable among 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.

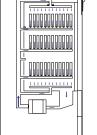
Self-diagnostic program, with visual and audible alarms, alerts the user in the event of a malfunction enabling quick troubleshooting and maintenance.

Mechanical Washing System

Superior hydraulic design:

- Washing system provides uniform wash/rinse solution on all levels.
 - 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	64.08 H x 23.78 W x 28.97 D (in) 1628 H x 604 W x 736 D (mm)	Total Electric Power	10 kW
Chamber Dimensions	25.35 H x 21 W x 20 D (in) 644 H x 535 W x 510 D (mm)	Drainage	Drain pipe diameter 1.5 inches, 31 to 35 inches from floor
Wash Levels	1 to 3 with upper level height adjustable (4 positions)	Voltage	208 V-3 Ph, 230 V-3 Ph, 480 V-3 Ph 208 V-1 Ph, 230 V-1 Ph
Water Consumption	3.96 gal (15 L) per fill	Net Weight	320 lbs
Recirculation Pump (flow rate)	111 gal/min (420 L/min)	Heat Loss	3,410 Btu/hr (860 Kcal/hr)
Heating	9 kW	Noise Level	<63 dBa
Drying	1.8 kW	Water Supply (Cold, Hot, DI) Connection Flow Pressure	34 inch hose thread 20 L/min (5 1/4 gal/min) 29-87 psig

Multiple Loading Configurations



Multi Function Rack









Three Independent Wash Levels with four 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 level.

Features and Options

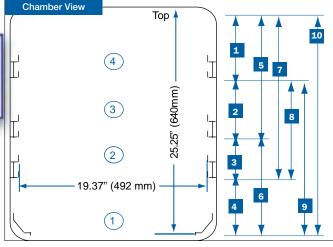
HEPA Filtered Injector Drying System: Complete and rapid drying of glassware with HEPA filtered forced air inside the washer chamber and directed into the glassware via rack injectors.

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

Other available options include: Drain discharge cool down, low pressure valve, emergency stop button, external printer, steam condenser, steam heating, gravity drop drain, 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 1300 LX will easily adapt to your needs, as a myriad of accessories will enable you to wash—on 3 independent levels—pipettes, volumetric flasks, etc. Lancer has the optimal accessory for your application. (See rack catalog for further accessory options.)



Available neight by rack position									
	PST	PSBT	IXL	IXC		PST	PSBT	IXL	IXC
1		3" 75		5" 126	6	20.5" 520		18.1" 460	
2					7		13.1" 335	14.5" 370	
3	8.3" 210		5.9" 150	6.5" 166	8		2.9" 75		4.9" 126
4		7.7" 195	9" 230		9	14.1" 360		11.8" 300	
5	13" 330		10.6" 270		10	24.4" 620	·	22" 560	

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

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sales@lancer.com www.lancer.com

LANCER

Description:

The 1300 LX fully automatic freestanding washer has an electronic programmable microprocessor capable of storing up to 42 programs (4 pre-programmed, 50 user definable functions, password protected) for pre-wash, wash, acid rinse, final rinse HEPA Filtered drying and cooling. These units are capable of injection cleaning on 1 to 3 levels with 4 possible rack locations, providing maximum capacity through multiple chamber configurations. Each level has telescopic, load bearing runners to house the racks, eliminating the need to handle loaded racks. Chamber drying and direct injector drying is standard. Drop down door provides loading platform. Washer has on-board chemical storage with liquid level sensors.

Contact LANCER:

LANCER Sales 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

Specifications:

Dimensions:

External: 64.08" H x 23.78" W x 28.97" D **Internal:** 25.35" H x 21" W x 20" D

Wash chamber load area: 3 Wash Levels - 360 square inches per level, 1,080 square inches total 3 levels

Loading Height: 33.84" (860 mm)

Water Consumption: 3.96 gallons per fill (15 L

per fill)

Heat Loss: 3,410 Btu / 860 Kcal/h

Sound Level: <63 dBa

Cycles: 4 pre-programmed, 38 user-defined **Injection Cleaning:** 1 to 3 levels with 4 possible

rack positions

Dosing: Automatic detergent and acid dosing via

peristaltic pump

Chemical Storage: Front access drawer **Drying:** HEPA filtered chamber and injector drying

Standards:

Manufactured under ISO 9001 accreditation.



Standard Features:

Drop 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 loading platform eliminating need for loading cart

Fully Extendable, Load Bearing Arms

- Support jet racks for loading and unloading of glassware
- Eliminate need for loading cart

Spray System

- Includes one rotary spray arm in top of chamber / one rotary spray arm in bottom of chamber
- Spray arms made of #4 sanitary high-grade 304L stainless steel
- Easily disassembled for cleaning and maintenance

System Wash Levels

- 1 to 3 levels
- Rack actuated via 4 automatic manifold connections when door is closed
- Rack accessories independent and easily removable for use on all levels

Super Drying System

- HEPA filtered chamber and direct injection drying
- 1.8 kW heating elements and blower provide drying up to 110° C

Main Recirculation Pump

• 3/4 HP with capacity of 111 gal/min (420 l/min)

Filter System

- Two stainless steel filters protect recirculation and drain pumps from debris
- Filters easily removed for cleaning
- Filters on all incoming water lines

Peristaltic Detergent and Acid Pumps

Provides precise addition of chemical agents

Wash Solution Heating System

9 kW electric heating elements provides heating up to 95° C

Electronic Thermostat

 Independent selection of temperature for pre-wash, wash and final rinse between ambient and 95° C

Microprocessor Control System

 User programmable with 42 storable programs and 50 user definable functions

Systems Control Panel

- 2-½ inch LCD display window with 2-line x 16 characters and program naming capability
- Touch pad is waterproof and glove friendly

System Monitoring

Audible and visual alarms provide quality control for each wash cycle

Water Level Sensors

 Two independent sensors control chamber water level and prevent overflow

Liquid Level Sensors

Determine when cleaning chemical levels are low

Programming and Cycle Operation:

- Pre-Wash Select number of Pre-Washes (0 to 3), length of Pre-Wash (up to 30 minutes), temperature of water (up to 95° C) and detergent. User can select hot, cold or purified water.
- Wash Select length of Wash (up to 30 minutes), detergent dosing time and temperature of water (up to 95° C). User can select hot, cold or purified water.
- Running Water Rinse 1 Select number of rinses (0 to 9). Unit fills with cold water rinses for 30 seconds and drains. User can select hot, cold or purified water.
- Acid Rinse Select length of Acid Rinse (up to 30 minutes), amount of acid. User can select hot, cold or purified water.
- Running Water Rinse 2 Select number of rinses (0 to 9). Unit fills
 with cold water rinses for 30 seconds and drains. User can select hot,
 cold or purified water.
- Pure Water Rinse COLD (DI Rinse) Select number of rinses (0 to 4). Select length of Pure Water Rinse (up to 30 minutes)
- Pure Water Rinse HOT (DI Rinse) Select length of Hot Pure Water Rinse (Up to 30 minutes) and temperature of water (up to 95° C)
- Cooling User selects length of cooling (up to 30 minutes)

Safety Features:

Door Interlock

• Prevents interference with wash cycle once it is in operation

Drop Down Door

- Eliminates the safety hazard associated with guillotine type doors
- Counterbalanced for safe operation

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Optional Features:

Steam Heating

Stainless steel exchanger provides rapid heating of water in washer sump

Drain Discharge Cool Down

- Wastewater cooled to <60° C
- Cold water added to effluent during drain phase

Water Softener

- Softens incoming hot and cold water
- Automatic regeneration after each wash cycle with low salt alarm

RS 232 Port Kit

• Provides RS 232 output for wash cycle process

pH Special Programming

 Automatically adds base or acid solution to lower or raise pH level of effluent before discharge to building drain system

Customized Programming Options

Available for special requirements and wash applications

Seismic Tie Down Kit

Bracket allows for seismic anchoring

External Printer

For documenting evidence of cleaning process with detailed information

Gravity Drop Drain

• Pneumatic valve to discharge wastewater to floor level drain

Low Pressure Valve Kit

Provides proper water pressure for purified water supply

Steam Condenser

- Removes steam vapor when chamber temperature exceeds 50° C
- Directs all condensate to drain

HAB Kit

• Stainless steel flanges allow for recessed installation of washer

Chemical Dosing Pump

- For dosing of other types of chemicals to fit specific wash requirements
- Up to 1 additional

Third party testing

- Field labeling by independent "NRTL" (Nationally Recognized Testing Laboratory) for product safety certification
- Verify compliance with the UL Standard 61010-1

Emergency Stop Button

Shuts off all power to the washer

Construction:

Wash chamber and door

- Constructed of #4 sanitary AISI 316L stainless steel
- High-grade finish electronically welded under Argon protection

Exterior

AISI 304L stainless steel with #4 high-grade finish

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 level

Accessories:

Basic Starter Kit

 PS/27 IXLC basic basket/rack: cleans both large, open mouth glassware and miscellaneous lab items. Consists of 27 short and long injectors for washing inside narrow necked glassware and open basket surface

Starter Kit

- PST basic basket/rack: cleans large, open mouth glassware and miscellaneous lab items
- 36 IXLC rack with short and long injectors: washes inside narrow necked glassware
- LTC mesh basket with lid: washes test tubes, stoppers, caps, other small items

Manual Transfer Carts

 Of stainless steel allow for easy transfer of full racks between multiple locations

Basic Basket Tray and Basket Tray with Spray Arm

Washes glassware with large necks or openings such

as beakers

• Mesh cover available for holding items on the basket during the wash cycle

Injector Racks

- Various combinations of jets (including different quantities, different diameters, short and/or long lengths)
- Allows for washing a wide variety of glassware
- Mesh hold-down screen available to prevent glassware from becoming dislodged during wash cycle

Stainless Steel Mesh Baskets

- For cleaning smaller items
- Lids available

Combination and Specialty Racks

 For washing specific items such as pipettes or for multiple types of items on one rack

Customized Accessories

- Modification of existing standard racks or baskets
- Creation of completely customized accessories

Preventative Maintenance:

 Annual Preventative Maintenance agreements ensure optimum washer performance and extend equipment life

Validation Services

- Installation Qualification and Operational Qualification (IQ/OQ) testing can be executed at the customer site
- Documentation only packages available separately

Cleaning Chemicals:

- LANCERCLEAN Detergent (3 formulas)
- LANCERACID Rinse (3 formulas)
- Specially formulated for use in high pressure washers

Required Utilities:

Hot Water

- Shut off valve with a threaded 3/4 inch male hose thread nozzle needed
- Flow rate: 5 1/4 gal/min (20 l/min) with a pressure between 29 and 87 psig (200 to 600 kPa)
- Maximum temperature: 50° C (122° F)

Cold Water

- Shut off valve with a threaded 3/4 inch male hose thread nozzle
- Flow rate: 5 1/4 gal/min (20 l/min) with a pressure between 29 and 87 psig (200 to 600 kPa)

Purified Water

- Shut off valve with a threaded 3/4 inch male hose thread nozzle
- Flow rate: 5 1/4 gal/min (20 l/min) with a pressure between 29 and 87 psig (200 to 600 kPa)

Steam Feed (for steam option only)

 Shut off valve and flexible steam hose for connection to washer's 1/2 inch male BSP threaded inlet

Steam Condensate Return (for steam option only)

 Shut off valve and flexible steam hose for connection to washers 1/2 inch male BSP threaded outlet

Drain Connection

- Fixed standpipe and plumbing trap with a minimum inside diameter of 1 1/2 inches (40 mm) needed
- Height above finished floor level between 31 and 35 inches (800 to 900 mm)
- Flow rate: 10 1/2 gal/min (40 l/min)
- AS AN OPTION unit can be configured for floor draining with optional floor drain kit

Condensate Drain Connection (for steam condenser option only)

- Fixed standpipe and plumbing trap with a minimum inside diameter of 1 1/2 inches (40 mm)
- Height above finished floor level between 30 and 35 inches (800 to 900 mm)
- Flow rate: 5 gal/min (20 l/min)
- AS AN OPTION unit can be configured for floor draining with optional floor drain kit

Exhaust Hood Preferred (unless room is well ventilated)

- Exhaust hood 12 inches (300 mm) min, 40 inches (1000 mm) max above washer's exhaust pipes.
- Discharge flow rate: 60CFM; max temp 203°F (95°C), max relative humidity 95%

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Electricity (electric models)

- 208 V, 60 Hz, 1-Phase, 7 kW, 34 Amps
- 208 V, 60 Hz, 3-Phase, 10 kW, 28 Amps
- 230 V, 60 Hz, 1-Phase, 7 kW, 31 Amps
- 230 V, 60 Hz, 3-Phase, 10 kW, 26 Amps
- 480 V, 60 Hz, 3-Phase, 10 kW, 12 Amps

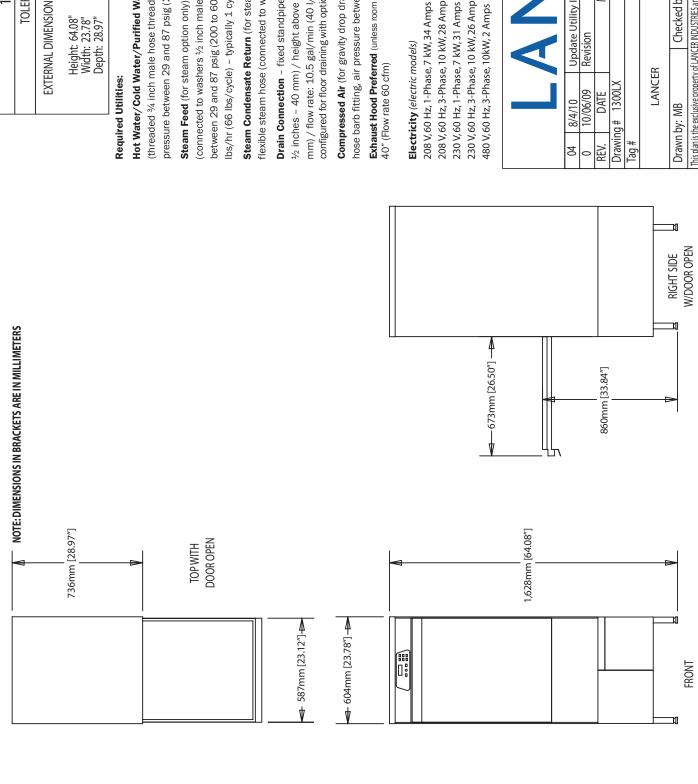
Electricity (steam heated models)

- 208 V, 60 Hz, 1-Phase, 2 kW, 10 Amps
- 208 V, 60 Hz, 3-Phase, 2 kW, 10 Amps
- 230 V, 60 Hz, 1-Phase, 2 kW, 9 Amps
- 230 V, 60 Hz, 3-Phase, 2 kW, 9 Amps
- 480 V, 60 Hz, 3-Phase, 2 kW, 5 Amps

Contact LANCER for Additional info on:

- Customization
- Maintenance Contracts
- Validation Services
- Cleaning Chemicals

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CHAMBER DIMENSIONS Height: 25.35" Width: 21.00" Depth: 20.00" TOLERANCE: ±.20" 1300 LX **EXTERNAL DIMENSIONS** Height: 64.08" Width: 23.78" Depth: 28.97"

Required Utilities:

(threaded ¾ inch male hose thread) / flow rate of 5 ¼ gal/min (20 l/min), Hot Water/Cold Water/Purified Water (each requires) - shut off valve pressure between 29 and 87 psig (200 to 600 kPa) Steam Feed (for steam option only) - shut off valve and flexible steam hose (connected to washers $lat{4}^2$ inch male BSP threaded inlet) / steam pressure between 29 and 87 psig (200 to 600 kPa) / maximum consumption: 265 lbs/hr (66 lbs/cycle) - typically 1 cycle used per hour

flexible steam hose (connected to washers ½ inch male BSP threaded outlet) Steam Condensate Return (for steam option only) – shut off valve and

Drain Connection - fixed standpipe and plumbing trap (min. inside diam. 1 142 inches – 40 mm) / height above finished floor 31-35 inches (800 – 900 mm) / flow rate: 10.5 gal/min (40 l/min). / AS AN OPTION unit can be configured for floor draining with optional floor drain kit

hose barb fitting, air pressure between 60-110 PSI (consumption is minimal) Compressed Air (for gravity drop drain only) - shut off valve with 3/8 inch

Exhaust Hood Preferred (unless room is well ventilated) – min. air gap 12", max. 40" (Flow rate 60 cfm)

208 V, 60 Hz, 3-Phase, 10 kW, 28 Amps 230 V, 60 Hz, 3-Phase, 10 kW, 26 Amps 230 V, 60 Hz, 1-Phase, 7 kW, 31 Amps 208 V, 60 Hz, 1-Phase, 7 kW, 34 Amps Electricity (electric models)

208 V, 60 Hz, 3-Phase, 2 kW, 10 Amps 208 V, 60 Hz, 1-Phase, 2 kW, 10 Amps 230 V, 60 Hz, 1-Phase, 4 kW, 9 Amps 230 V, 60 Hz, 1-Phase, 4 kW, 9 Amps 480 V, 60 Hz, 3-Phase, 2kW, 5 Amps Electricity (steam heated models)

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Lancer Washing Accessories: flexibility is the key to efficient cleaning

Lancer Washers

With over 35 years of experience, Lancer is the industry leader in washing equipment. Providing glassware washers to the technological marketplace, Lancer offers a solution to suit any cleaning application. Lancer Glassware washers range from undercounters to free-standing units with varying capacities to suit any wash load.

A variety of racks and accessories are available to accommodate all types of glassware and laboratory items. This brochure provides a comprehensive listing of accessories as well as rack placement guides to provide the information you need to choose the right accessory based on your glassware loads and wash cycle needs.

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Lancer offers the widest range of washers and accessories. If you have any questions or for further details please contact a Lancer Sales Representative at (800)332-1855 or visit our website at www.lancer.com.

Lancer Washing:

User Friendly Loading Systems

- Telescopic Rails: baskets are mounted on fully load bearing rails in the extended position allowing for ease of loading and unloading of glassware.
- ☐ Glassware Height Adjustment: adjustable star feet allow for various heights of glassware to be washed in the same load. Glassware is placed at the right position to obtain the optimum cleaning and drying results.
- Customized Grids: adjustable and fixed support grids are available to optimize load patterns.







Interchangeable Accessories

- Utilizing the independent water connections at each level allows for baskets to be interchanged among levels, reducing the number of required accessories.
- ☐ The 910 LX, 1300 LX, 1400 LXP, 1600 LXP and 1800 LXA washers are equipped with an additional water connection, allowing for placement of accessories at the required height depending on load configuration.



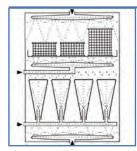


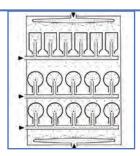


Flexibility: 910 LX chamber shown with two accessories in three different loading configurations.

Powerful Glassware Cleaning and Drying

- ☐ Top and bottom spray arms ensure accurate cleaning of the outside surfaces of the glassware.
- ☐ Independent water connections on each level guarantee optimal water pressure for cleaning the internal surfaces of the glassware.
- □ Direction Injection Drying: hot air is directed through rack injectors and circulated throughout the washer chamber to ensure rapid drying of the glassware. (On models equipped with injection drying.)



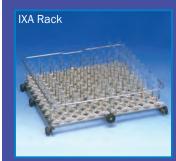




810 LX / 815 LX / 820 LX / 910 LX / 1300 LX / 1800 LXA









Injector Racks:

2 mm diam short jets

Items Washed:

small narrow neck glassware

Available Accessories:

- 48 IXA 48 jets
- 64 IXA 64 jets
- 100 IXA 100 jets
- ☐ GCI Cover for injector racks
- ☐ GCI 1/2 Half cover

2 & 6 mm diam short jets

Items Washed:

- small narrow neck glassware
- bottles
- cylinders
- boiling flasks
- erlenmeyer flasks
- volumetric flasks

Available Accessories:

- □ 64 IXA/2 64 iets
- □ 100 IXA/2 100 jets

6 mm diam short jets

Items Washed:

- □ bottles
- cylinders
- boiling flasks
- erlenmeyer flasks
- volumetric flasks

Available Accessories:

- □ 27 IXC 1/2 half rack 27 jets
- **36 IXC -** 36 jets
- 41 IXC 41 jets
- 48 IXC 48 jets
- 100 IXC 100 jets







6 mm diam long and short jets

Items Washed:

- bottles
- cylinders
- boiling flasks
- erlenmeyer flasks
- volumetric flasks

Available Accessories:

- □ 36 IXLC 36 jets
- 48 IXLC 48 jets
- 64 IXLC 64 jets
- 100 IXLC 100 jets

6 mm diam long jets

Items Washed:

- bottles
- cylinders
- boiling flasks
- erlenmeyer flasks
- volumetric flasks

Available Accessories:

- 20 IXL D6 20 jets
- □ 36 IXL 36 jets
- **48 IXL -** 48 jets
- □ 64 IXL 64 jets

8 mm diam long jets

Items Washed:

- bottles
- cylinders
- boiling flasks
- erlenmeyer flasks
- enemneyer nasks

■ volumetric flasks Available Accessories:

20 IXL - 20 jets



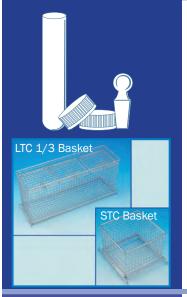
Basic Baskets:

Items Washed:

- beakers
- cones
- trays
- dishes
- dissolution vessels
- reaction flasks
- funnels
- instruments
- jars

Available Accessories:

- PST Basic basket
- PSBT Basic basket with spray arm
- GC Cover for PST/PSBT
- GC 1/2 Half cover



Small Mesh Baskets:

Items Washed:

- bottle caps
- ferrules
- plugs
- stoppers test tubes

Available Accessories:

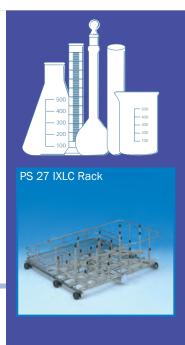
- STC | STC 1/3 short basket (WITH cover)
- LTC | LTC 1/3 tall basket (WITH cover)
- PPM fine mesh for small items (attached cover)
 - 122 mm x 134 mm x 93 mm
- PPM 80 fine mesh for small items (attached cover) - 80 mm x 80 mm x 34 mm



Items Washed:

Available Accessories:

- 100 PIP grommet style
- PPI 2B/4B canister style



Multipurpose Racks:

Items Washed:

- bottles
- cylinders
- boiling flasks
- erlenmeyer flasks
- volumetric flasks
- beakers
- cones
- trays
- dishes
- dissolution vessels
- reaction flasks
- funnels
- instruments
- jars

Available Accessories:

- PS/27 IXLC 1/2 PST basket | 1/2 27 jets
- 25 PIP/30 IXLC 1/2 pipettes | 30 jets
- 4 EP/25 IXLC 4 vol flasks 25 jets
- 50PIP/34 IXLC 1/2 pipette rack | 34 jets
- PS/21 IXLC/25 PIP -PST|pipettes|21 jets



BP Rack

Other Applications:

Items Washed:

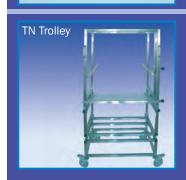
- thin plates
- culture dishes
- watch glasses

Available Accessories:

- 20 PL Basket for thin plates
- BP Basket for culture dishes
- SSC | SSL Supports
- VM 1/3 1/2 basket for watch glasses



pipettes



Storage / Transport:

Storage and transport of Lancer Accessories.

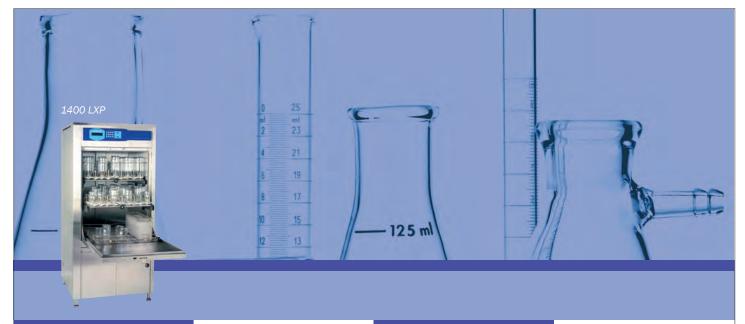
- RP Stand to hold 5 racks
- TN 910 LX Door plus upper level trolley
- TN 13 LX Door plus two upper levels trolley
- TN 18 LXA Door plus three upper levels trolley

Base Cabinets:

Stainless steel base cabinet for undercounter washers only.

- CAPN 81LX SS plinth for 810 LX and 815 LX
- CAPN 82LX SS plinth for 820 LX

1400 LXP









Injector Racks:

2 mm diam short jets

Items Washed:

small narrow neck glassware

Available Accessories:

- **81 IXA 14LXP** 81 jets
- **100 IXA 14LXP** 100 jets
- GCI 14LXP Cover for injector racks
- GCI 1/2 14LXP 1/2 Cover for injector racks

2 & 6 mm diam short jets

Items Washed:

- small narrow neck glassware
- bottles
- cylinders
- boiling flasks
- erlenmeyer flasks
- volumetric flasks

Available Accessories:

- □ 64 IXA/2 14LXP 64 jets
- 81 IXA/2 14LXP 81 jets
- **100 IXA/2 14LXP** 100 jets

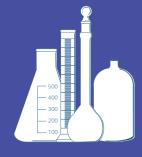
6 mm diam short jets

Items Washed:

- bottles
- cylinders
- boiling flasks
- erlenmeyer flasks
- volumetric flasks

Available Accessories:

- 48 IXC 14LXP 48 jets
 - **64 IXC 14LXP** 64 jets
- 81 IXC 14LXP 81 jets
- 100 IXC 14LXP 100 jets







6 mm diam long and short jets

Items Washed:

- bottles
- cylinders
- boiling flasks
- erlenmeyer flasks
- volumetric flasks

Available Accessories:

- 32 IXLC 1/2 14LXP half rack 32 jets
- **36 IXLC 14LXP** 36 jets
- 48 IXLC 14LXP 48 jets
- **64 IXLC 14LXP** 64 jets
- 81 IXLC 14LXP 81 jets

6 mm diam long jets

Items Washed:

- bottles
- cylinders
- boiling flasks
- erlenmeyer flasks
- volumetric flasks

Available Accessories:

- 24 IXL 14LXP 24 jets
- □ 36 IXL 14LXP 36 jets
- **48 IXL 14LXP** 48 jets
- □ 64 IXL 14LXP 64 jets

8 mm diam long jets

Items Washed:

- bottles
- cylinders
- Cylinders
- boiling flasks
- erlenmeyer flasks
- volumetric flasks

Available Accessories:

- 4 IXL 14LXP- 4 jets
- **9 IXL 14LXP** 9 jets



Basic Baskets:

Items Washed:

- beakers
- cones
- trays
- dishes
- dissolution vessels
- reaction flasks
 - funnels
- instruments
- jars

Available Accessories:

- PST 14LXP- Basic basket
- PSBT 14LXP Basic basket with spray arm
- GC 14LXP Cover for PST/PSBT
- GC 1/2 Half cover



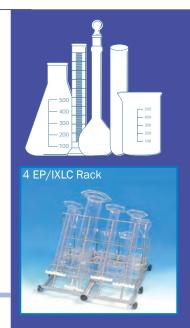
Small Mesh Baskets:

Items Washed:

- bottle caps
- ferrules
- plugs
- stoppers
- test tubes

Available Accessories:

- □ STC | STC 1/3 short basket (WITH cover)
- LTC | LTC 1/3 tall basket (WITH cover)



Multipurpose Racks:

Items Washed:

- bottles
- cylinders
- boiling flasks
- erlenmeyer flasks
- volumetric flasks
- beakers
- cones
- trays
- dishes
- dissolution vessels
- reaction flasks
- funnels
- instruments
- jars

Available Accessories:

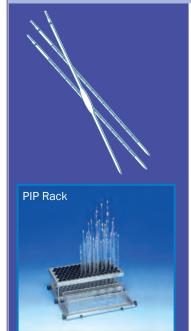
- 31 PIP/25 IXLC 14 LXP -1/2 pipette rack | 25 jets
- 4 EP/24 IXLC 14LXP 4 vol flasks | 24 jets
- PS/32 IXLC 14LXP -PST | 32 jets



Storage/Transport:

Storage and transport of Lancer Accessories.

- RP 14LXP Stand to hold 5 racks
- TN 14LXP Door plus upper level trolley



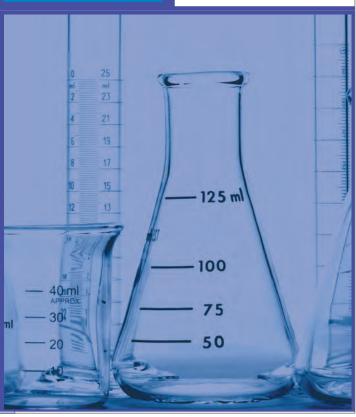
Pipette Racks:

Items Washed:

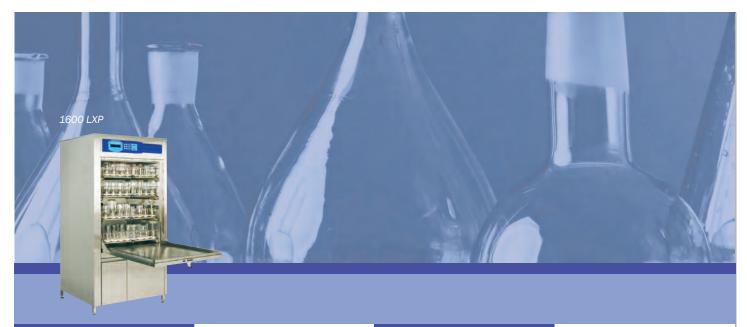
pipettes

Available Accessories:

- 124 PIP 14LXP grommet style
- PPI 4B 14LXP canister style



1600 LXP





IXA Rack



Injector Racks:

2 mm diam short jets

Items Washed:

small narrow neck glassware

Available Accessories:

- 100 IXA 16 100 jets
- **144 IXA 16 -** 144 jets
- GCI 16 Cover for injector racks

2 & 6 mm diam short jets

Items Washed:

- small narrow neck glassware
- bottles
- cylinders
- boiling flasks
- erlenmeyer flasks
- volumetric flasks

Available Accessories:

- 100 IXA/2 16 100 jets
- 144 IXA/2 16 144 jets

6 mm diam short jets

Items Washed:

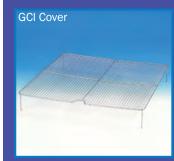
- bottles
- cylinders
- boiling flasks
- erlenmeyer flasks
- volumetric flasks

Available Accessories:

- 36 IXC 16 36 jets
- 64 IXC 16 64 jets
- 80 IXC 16 80 jets
- 100 IXC 16 100 jets
- **144 IXC 16 -** 144 jets







6 mm diam long and short jets

Items Washed:

- bottles
- cylinders
- boiling flasks
- erlenmeyer flasks
- volumetric flasks

Available Accessories:

- □ 36 IXLC 16 36 jets
- □ 64 IXLC 16 64 jets
- 80 IXLC 16 - 80 jets
- **100 IXLC 16** 100 jets

6 mm diam long jets

Items Washed:

- bottles
- cylinders
- boiling flasks
- erlenmeyer flasks
- volumetric flasks

Available Accessories:

- □ 36 IXL 16 D6 36 jets
- □ 64 IXL 16 44 jets
- 80 IXL 16 80 jets
- 100 IXL 16 100 jets

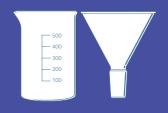
8 mm diam long jets

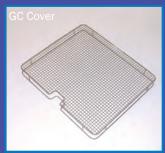
Items Washed:

- bottles
- cylinders
- boiling flasks
 - erlenmeyer flasks
- volumetric flasks

Available Accessories:

□ 36 IXL 16 - 36 jets





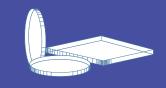
Basic Baskets:

Items Washed:

- beakers
- cones
- trays
- dishes
- dissolution vessels
- reaction flasks
- funnels
- instruments
- jars

Available Accessories:

- PST 16 Basic basket
- □ PSBT 16- Basic basket with spray arm
- ☐ GC 16 Cover for PST/PSBT





Other Applications:

Items Washed:

- thin plates
- culture dishes
- wtch glasses

Available Accessories:

- BP 16 Basket for culture dishes
- SSC 16 | SSL 16 Sup-
- □ SSC 1/3 PS 16 | SSL 1/3 PS 16 - Supports
- VM 1/3 16 1/2 basket for watch glasses



Small Mesh Baskets:

Items Washed:

- bottle caps
- ferrules
- plugs
- stoppers
- test tubes

Available Accessories:

- STC | STC 1/3 short basket (WITH cover)
- LTC | LTC 1/3 tall basket (WITH cover)



Storage/Transport:

Storage and transport of Lancer Accessories.

- RP 16 Stand to hold 5 racks
- TN 16 Door plus three upper level trolley
- NB 16 Door level trolley



Pipette Racks:

Items Washed:

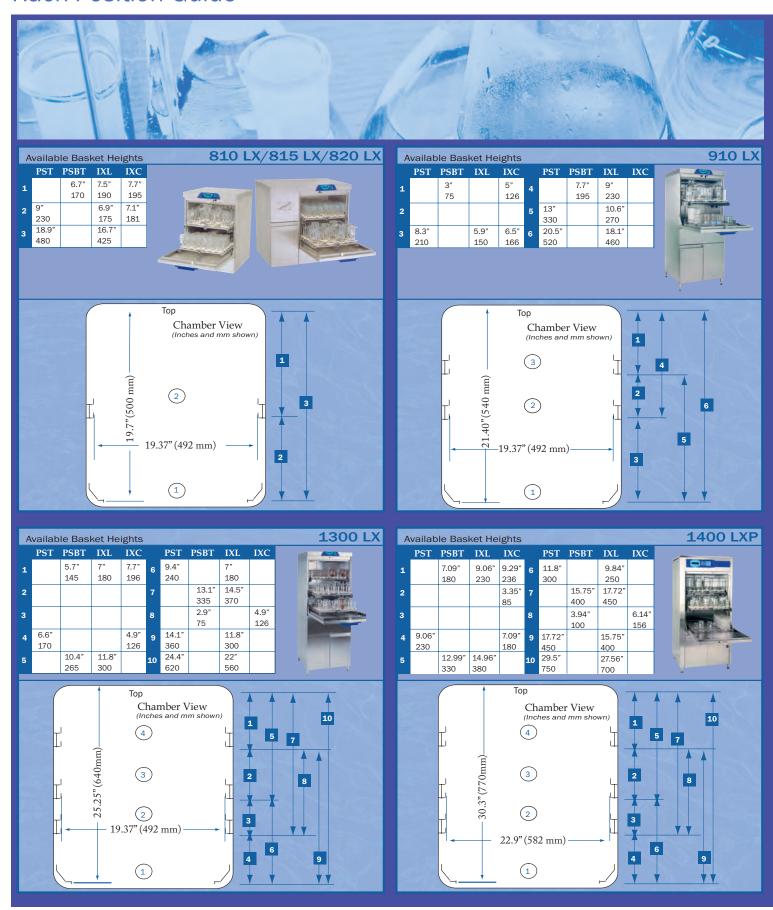
pipettes

Available Accessories:

□ 105/210 PIP 16 grommet style



Rack Position Guide



Accessory Part Number Guide:

All Models

Injector Racks:

24 | IX | L | 14 LXP | D6

24 = number of injectors

IX = rack type

- L = length of injectors
 - L = long injectors
 - □ C = short injectors
 - □ LC = mix long & short injectors
 - □ A = 2 mm diam. injectors
 - □ C = short injectors
 - □ CM = mix of short 6 mm & 2 mm diam. injectors
 - \square A/2 = mix of short 6 mm & 2 mm diam. injectors
- 14 LXP = washer model
 - None = for models 810 LX, 815 LX, 820 LX, 910 LX, 1300 LX, 1800 LXA
 - **14 LXP** = for model 1400 LXP
 - 16 = for model 1600 LXP
- D6 = special diameter injectors
 - □ **D6** = 6 mm (8 mm standard diam.)
 - □ D8 = 8 mm (6 mm standard diam.)

Basic Basket:

PST | 16

- PST = basket type
 - PST = basic basket for bottom level
 - PSBT = basic basket with spray arm for upper levels
- 16 = washer model
 - None = for models 810 LX, 815 LX, 820 LX, 910 LX, 1300 LX, 1800 LXA
 - **14 LXP** = for model 1400 LXP
 - □ 16 = for model 1600 LXP

Mesh Baskets:

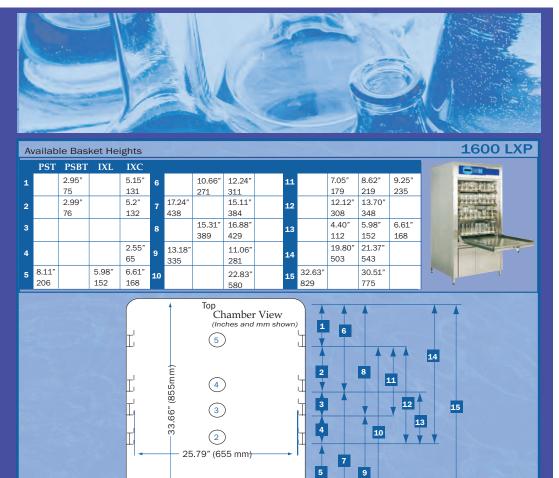
STC | 1/3

- STC = basket height
 - **□ STC** = 93 mm
 - LTC = 163 mm
- 1/3 = basket length
 - None = 134 mm □ 1/3 = 409 mm

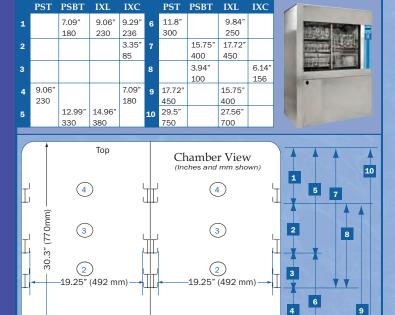
Pipette Racks:

105 | PIP | 16

- 105 = number of pipette inserts
- PIP = pipette basket type
- 16 = washer model
 - None = for models 810 LX, 815 LX, 820 LX, 910 LX, 1300 LX, 1800 LXA
 - 14 LXP = for model 1400 LXP
 - **16** = for model 1600 LXP



1800 LXA



(1)

(1)

Available Basket Heights

(1)

LANCER

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