

Product specification

Getinge Lancer Ultima model 1600 LXP



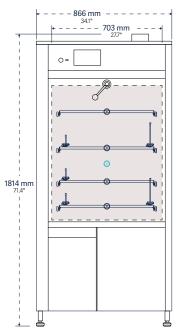
Getinge Lancer Ultima model 1600 LXP

Product specification

Basic specifications

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

Dimensions of the Getinge Lancer model 1600 LXP, 1600 LXP with height extension not displayed.



- 1784 mm
 70.2*

 | 1784 mm
 70.2*
 | 1784 mm
 26.7*
 | 1784 mm
 26.7*
 | 1784 mm
 26.7*
 | 1784 mm
 26.7*
 | 1784 mm
 26.5*
- Door configuration
 Fold-down door is
 made of solid 316L
 stainless steel.
 Optional View-InProcess (VIP) window
 provides a view inside
 the chamber.
- Water per fill 30–35 L (7.2–9.2 gal)
- Interior dimensions
 (w × h × d)
 703 × 858 × 678 mm
 (27.7" × 33.8" × 26.7")
- Interior dimensions with optional height extension (w × h × d)

(w × h × d) 703 × 1108 × 678 mm (27.7" × 43.6" × 26.7")

- Exterior dimensions (w × h × d) 866 × 1814 × 858 mm (34.1" x 71.4" x 33.8")
- with optional height extension (w × h × d) 866 × 2064 × 858 mm (34.1" × 81.3" × 33.8")

Exterior dimensions

- Wash programs
 5 presets, 35 custom settings
- Cycle functions
 Wash temp: 95°C /
 203°F
 Drying: Forced-air
 chamber, injectors,
 HEPA Filtered

- **Weight** 215 kg (474 lb.)
- Extended weight 240 kg (529 lb.)
- Effective chamber volume 408 L (14.4 cu.ft.)
- Extended effective chamber volume 528 L (18.7 cu.ft.)
- Load/machine foot 0.6 kN
- Extended load/ machine foot 0.7 kN



Getinge Lancer model 1600 LXP and 1600 LXP with height extension. View-in-process is optional.

General specifications

The Getinge Lancer Ultima series model 1600 LXP washer/dryer has been designed to meet and exceed the growing requirements of the laboratory industry for cleaning of glassware. Getinge Lancer Ultima series washers offer the best labware cleaning solutions in the industry, delivering high performance in a compact footprint. Efficient use of water, detergents, and rinsing agents minimizes the environmental impact while energy saving construction lowers total cost of ownership.

Inventory systems are evaluated and designed to solve specific cleaning and drying challenges. The exclusive Prolux Plus programmable microprocessor controller commands a full range of prewash, wash, rinse and drying functions through simple touchscreen menus. The model 1600 LXP labware washer offers the convenience of five preset programs for light to heavy loads, while up to 35 more complex programs can be customized as needed to meet specific operational requirements.

Features and benefits

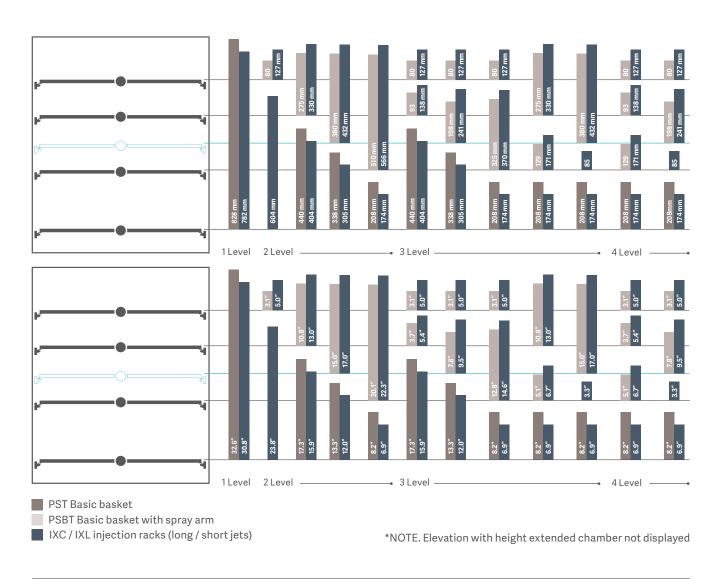
The Getinge Lancer Ultima series model 1600 LXP labware washer/dryer includes a suite of features and benefits designed for performance and operator safety.

- Chamber of high grade, sanitary 316L, stainless steel to withstand the powerful washing process and aggressive chemicals often required for thorough cleaning.
- · Insulated, double-wall construction for thermal and sound protection.
- Unique, proven design enables water circulation at full pressure on all levels,
 delivering the required mechanical effect for highly efficient washing in all areas of the load.
- The large door opens at a convenient height and has gas-dampened support legs for extra-secure loading and unloading.
- User friendly 7" color touchscreen that provides comprehensible help in resolving problems and allows operators to see machine status from a distance.
- 40 microprocessor controlled programs, of which five are factory preset and 35 can be user-customized (PIN code protected) to suit particular applications or loads.
- PLC microprocessor designed for simplicity, one-touch start and real-time status indicators. Provides enhanced connectivity for independent monitoring.
- USB port in front of panel.
- Gaskets and seals in contact with the process water are food grade quality.
- On-board chemical storage drawer takes 2 × 10 L (2 x 2.5 gallons) standard bottles and minimizes handling and exposure.
- Low chemical level detectors and alarms, plus additional storage space.
- Filtered, pulsed hot air is delivered through three turbines for effective drying in and outside of the glassware.
- Fully variable drying temperature.
- · Suitable for pharmaceutical processing laboratories where full GMP specification is not required.

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Cleaning performance and safety

Loading configurations



Ergonomics

Ergonomic loading configurations

- Telescoping load-bearing rails permit extension of racks for easy loading.
- All racks are interchangeable between top and bottom wash levels.
- The fold-down door creates a platform for proper rack positioning and more comfortable loading and unloading.

GETINGE LANCER ULTIMA MODEL 1600 LXP

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Controller

The Prolux Plus controller is based on a high performance PLC microprocessor designed for simplicity, one-touch start, real-time status indicators and intuitive programming options that permit customization over the range of washer operations. Prolux Plus integrates a suite of menu screens that support digital functions from cycle selection, process monitoring, warning advisories, audible and visual alarms and system communications and data capture.

Programs

The washer is pre-loaded with wash cycles that are generic from the factory that can be modified and adapted at Performance Qualification. Below are the phases that are applicable in the program group which allow modification of parameters like; water to be used, temperature, phase time, dosing amount etc.

- 1-Prewash: Select number of prewashes (0 to 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, 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, hot or DI water.
- 3-Running Water Rinse A: Select number of rinses (0-9), duration of rinse (up to 30 minutes) and temperature of water (up to 95°C / 203°F).
 User can select cold, hot or DI 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, hot or DI water.
- 5-Running Water Rinse B: Select number of rinses (0-9), duration of rinse (up to 30 minutes) and temperature of water (up to 95°C / 203°F).
 User can select cold, hot or DI 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, hot or DI water.
- 7-Final Rinse: Duration of rinse (up to 30 minutes), temperature of water (up to 95°C / 203°F).
 If conductivity monitoring is desired, that procedure is made in this phase.
- **8-Drying:** Programmable in 1°C increments for up to 90 minutes and up to 110°C / 230°F.
- 9-Cooling: Duration of cooling (up to 30 minutes).

Parameters – Different parameters can be set for each program via control system such as:

- Number of phases for the program (prewash, wash, neutralizing rinse)
- · Duration for each phase
- · Water inlet selection for each phase
- Temperature for prewash, wash, acid rinse,
 DI rinse and final rinse
- · Selection of additive intake
- Drying time
- · Drying temperature

A Prolux Plus microprocessor with adjustable programs ensures the model 1600 LXP washer control. Up to 40 standard washing programs of which five are factory preset (for chemistry glassware, volumetric flasks, bacteriology / virology glassware and one additional ECO program)* while others (35) are user-customized. The microprocessor controls all system functions and monitors system operations. Both visual and audible alarms inform operator in case of cycle malfunctions and visual information on real-time process can be displayed.

^{*} more information to be found in the user manuals.

Getinge Lancer Ultima model 1600 LXP

Ordering information

Make your selections:	
= Standard selection = Optional sel	ection
Documentation	
To ensure the correct sets of manuals to be included for model 1600 LXP:	Please indicate your requested language for the user manual:
User manuals are available for all EU languages. Installation manuals, service/technical manual, and the spare parts list are all available in English or French only.	
(Manuals are provided electronically on USB device).	Please check your requested language for installation, service and spare part manual:
	English
	French
	A copy of the user manual can be provided as an option.
	No paper copy of user manual
	One paper copy of user manual (47020134)
Documentation commissioning	
IQ/OQ documentation and FAT protocol The model 1600 LXP can be tested as per a standard FAT protocol. No FAT protocol.	As an option, the washer can be tested as per a standard FAT protocol. The prequalification protocol is performed at the manufacturing facility prior to shipment in accordance with Getinge Lancer product protocol.
Standard FAT protocol without customer (01060194).	The prequalification protocol consists of a number of test plans and test result tables.
Customer attendance at FAT – 1 day standard FAT protocol. No washing test performed (AA90010668) – Attendance of maximum 2 individuals.	IQ/OQ documentation and SAT protocol The model 1600 LXP washer can be tested as per a standard SAT protocol.
	SAT protocol can be provided on customer's site, contact Getinge Lancer for information.
	Performance qualification (by others) The performance qualification must be performed by others.

Language / HMI The panel/HMI includes a multilingual pack. Select your language to be displayed on the HMI: Bulgarian English Greek Lithuanian Romanian Spanish Croatian Estonian Hungarian Maltish Russian Swedish Czech Finnish Irish Norwegian Serbian Danish French Italian Polish Slovakian Slovenian Dutch German Latvian Portuguese Contact your Getinge Lancer representative for another language. **Panel**

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Graphic interface

Screen menus and a graphic user interface are designed to simplify setup and operations including active program, remaining time, warnings, alarms and complete cycle notifications. Screen incorporates 7" color-touchscreen interface with 800 x 480 pixel resolution display.

Program selection

Five factory laboratory programs as standard, with 35 user-customized programs available.

Framework

Quality AISI 304 stainless steel framework as standard.

Door selection

The fold-down door is made of solid 316L stainless steel (only for parts in contact with process water).

As an option, **View-In-Process (VIP) window** provides a view inside the chamber. With this option, the wash chamber is equipped with one LED lamp mounted through the ceiling to illuminate the chamber for safe operation.

Standard door - Stainless steel door
i Standard door - Stanness steel door

VIP window and illuminated chamber (90010647)

Chamber elevation / height extension

Chamber height can be extended to accommodate large / high items.

This option cannot be combined with VIP glass door and illuminated chamber.

	Stanc	lard	cham	ber
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Chamber elevation 250 mm (9.84") (AA90010687)

HeatingThe water in

The water in the sump is as standard electrically heated. Drying module is always electrically heated. Steam allows a fast and precise water temperature adjustment. Strainer, steam trap on the steam piping inlet and flexible hose for connection to washer should be provided by others.	The heating of the sump has the following options: Electric heating Steam heating with electric valve (90010451)
Super drying The 1600 LXP model is equipped with a super drying system was be dried effectively.	which allows the most fragile and narrow neck glassware to
Temperature probe The model 1600 LXP is equipped with PT-1000 temperature probes which can be adjusted according to pattern probe.	No chamber temperature sensor calibration report Chamber temperature sensor calibration report (90010590)
Voltage supply 50 Hertz 200-208 VAC, 3+PE (AA90010681) 220-240 VAC, 3+PE (90010101) 380-400 VAC, 3N+PE (90010102) 380-400 VAC, 3+PE (AA90010683)	60 Hertz 200-208 VAC, 3+PE (90010021) 220-240 VAC, 3+PE (90010026) 380-400 VAC, 3+PE (90010027) 480 VAC, 3+PE (90010029)
Emergency stop A cycle can be stopped by pushing the emergency shutdown button. The 'shutdown' facility enables the user to stop any cycle in progress. The main purpose of the emergency shutdown is an immediate shutdown of all media and processing. When the E-stop has been reset, the operator or technician must acknowledge the alarm.	No emergency stop Emergency stop (90010454)
Main On/Off switch Electrical main power switch allows for power to be turned off for entire unit before it is serviced.	No main power switch Main power switch (AA90010689)

Complete stainless steel hydraulic circuit The hydraulic circuit can be provided in 316L stainless No complete stainless steel hydraulic circuit in AISI steel. This option also includes a recirculation pump in 316L 304 stainless steel. Complete stainless steel hydraulic circuit in AISI 316L with stainless steel pump in AISI 304. (90010529) No recirculation pump casing drainage after each cycle. With recirculation pump casing draining after each cycle. (AA90010670) Only possible if gravity drain selected. This option needs compressed air Water connections Three (3) water inlets allow different types of water to be used for washing and rinsing, typically selected from: Cold water DI water Hot water (up to 50°C / 122°F)

Hot water inlet valve (brass valve) allows water with temperature higher than 50°C / 122°F to enter the chamber. (01060131)

Standard valve

As an option, low pressure valve + pump kit provides adequate water pressure for DI water supply. (01060206)

As an option, hot demineralized water valve can be provided in stainless steel in lieu of plastic to accommodate highly corrosive DI water. (01060120)

Connections are threaded type (see tables for sizes and consumption on page 15). The water hoses (connection to the washer) are supplied with the machine.

Customer water loop

Standard valve

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- 1 [ie wasner/urver ca	an communicate with	n the customer	water 1001	o according	to the r	JIIOWIII2 ·	ODLIONS

No water loop

Customer water loop control by relay (90010531)

As an option, the washer/dryer is equipped with a dry contact which opens and closes the customer's water loop valve (no valve on the washer/dryer). The model 1600 LXP is equipped with a stainless steel inlet tube (clamp fitting diameter 25 mm (1")). Customer has to provide the hose between the loop valve and the washer tri-clamp fitting.

Prerequisite: the selection, Customer water loop, can not be combined with the other selections for DI water in regards of water connections.

Water softener	
The water softener prolongs and improves efficiency in hard water areas. The model 1600 LXP can be fitted with a water softener which softens incoming cold and hot water (maximum of 50°C / 122°F). It includes automatic regeneration after each wash cycle with low salt alarm.	No water softener Water softener (90010501)
Steam condenser	
The condenser removes steam vapor when chamber temperature exceeds 50°C / 122°F and directs condensate to drain.	No steam condenser Steam condenser (90010530)
Chemical storage The model 1600 LXP has a storage drawer with capacity for tw dimensions of H 320 × W 230 × D 200 mm (12.6" × 9" × 7.9") und	_
Level sensors	
Low level sensor will automatically send a low chemical warning to the message screen to alert operators when the chemical reaches the low level in the container. Controller allows the new cycle to be started, but requires the detergent / acid to be replaced or refilled before another cycle. Chemical containers are fitted with level sensors to prevent pumping in the absence of liquid. A visual and	Level sensors for European containers dimensions Level sensors for US/Canadian containers dimensions
audible alarm warns in case of lack of chemicals.	
Chemical dip tube 1041 mm (41") height	
Long dip tube (1041 mm (41") height) with a 6 m (236") tubing and wiring which allows to have several washers side by side and share product from a central product drum.	No chemical dip tube 1041 mm (41") height 2x Chemical dip tube 1041 mm (41") height (AA90010665) Total chemical dip tube 1041 mm (41") height quantity:

Dosing pumps

The model 1600 LXP is always equipped with two peristaltic p It is possible to use up to 4 different chemicals in the washer/ No extra dosing pump Extra alkaline dosing pump (maximum 2) Total alkaline dosing pump quantity:	· ·
Effluent neutralization Neutralization of the effluent can be performed by adding acid in the caustic wash solution just before draining. The quantity of acid to be injected has to be calculated to ensure the amount of detergent in the wash solution is properly neutralized. It is also possible to neutralize an acid rinse with the same method.	No effluent neutralization Effluent neutralization (90010326)
Sampling system A sampling valve can be fitted on the sump of the washer to perform sampling of the washer water. A sampling selection in the program stops the washer before each draining phase ("multi-phase" sampling) or before the final rinse draining phase ("final rinse" sampling). The operator can then perform the sampling. The operator acknowledges the sampling and the program resumes. Sampling valve is located on fascia panel (easy accessible without need to open a panel).	No manual sampling valve Manual sampling valve (90010532)

Control and validation

Stop valves	Pump pressure monitoring
No sanitary stop vales.	The recirculation pump pressure will be measured
Two (2) sanitary chemical stop valves close both delivery circuits at the end of chemical intake. The chemical piping connected to the chamber is rinsed by recycled water to eliminate any residual chemical.	No pump pressure monitoring. With pump pressure monitoring (AA90010675)
(AA90010678)	Dual temperature probe
Three (3) sanitary chemical stop valves close both delivery circuits at the end of chemical intake. The chemical piping connected to the chamber is rinsed by recycled water to eliminate any residual chemical. (90010230) Four (4) sanitary chemical stop valves close both delivery circuits at the end of chemical intake. The	An additional temperature sensor can be optionally selected which will verify the process in addition to the standard temperature sensor. Both values will be stated on the process printout. No dual tempreature probe. With dual tempreature probe. (AA90010679)
chemical piping connected to the chamber is rinsed by recycled water to eliminate any residual chemical.	Conductivity monitoring for final rinse
(90010230) Prerequisite: compressed air required to open the valves.	The conductivity-meter gives documented evidence of the cleaning process including the verification of the water quality during final rinse. The conductivity transmitter is placed on the front panel close to the HMI where a visual reading of the conductivity can be made. No final rinse conductivity monitoring. Final rinse conductivity monitoring (AA90010674).
Draining	
Draining pump A fixed standpipe and plumbing trap with a minimum internal diameter of 40 mm (1½") is required. The height above finished floor level must be between 800 to 900 mm (31 to 35 inches). For more information see page 15.	Orop drain, draining can be by gravity discharge at floor level. (01060177) A connection on a 50 mm (2") line with an air breaker is recommended to isolate the washer from the draining network (open connection). Prerequisite: for this option compressed air is needed.
According to wash room draining system, the washer/dryer ca	an be equipped with following options:
Drain discharge cool down option	
Effluent neutralization option, see page 11.	
Drain cooling	
Effluents are cooled down to reduce temperature to an average of 60°C / 140°F by direct injection of cooling water.	No drain discharge cooldown Drain discharge cooldown (90010447)

Dry contact: programmable output for external communication / control of external equipment. Volt free contact package for external communication include: • Cycle in process • Alarm activated • Drying/exhaust activation • Request for purified/demineralized water	No additional volt free contacts With volt free contact package (4x) (AA90010667)
Printer	
To ensure cycle documentation, information can be printed on an external table printer. The printout gives documented evidence of the cleaning process including cycle parameters, operator number, time of program start, phase duration, probe temperature during each phase, detergent and acid intake. Built in impact printer connected directly to the RS 232 port on electrical board.	No printer Built-in panel printer (90010456) The washer/dryer is equipped only with built-in panel printer
RS-232 / Ethernet outputs Serial port for batch report through USB. The RS plug is located on rear panel of washer. Multiple data ports include ethernet and RS-232 connectors.	 Without extension and attachment so that the RS-232 / Ethernet ports are located on the backside of the LAB washer. With extension and attachment so that the RS-232 / Ethernet ports are located on the backside of the LAB washer (AA90010676)
Network printer	
The model 1600 LXP is also equipped with network printer capabilities.	No network printer Connection for network printer HP (90010633) Connection for network printer Brother (90010634) Prerequisite: the option selection RS-232/Ethernet outputs needs to be selected.
Runners and water entry position adju	stment
Runners and water entry positions can be adjusted in the chamber to suit customized glassware height and loading. Contact your Getinge Lancer representative before selecting this option.	No runners and water entry position adjustment. Runners and water entry position adjustment.

Communication / control

Floor anchors No floor anchors. All units are supplied with adjustable feet. Additionally, brackets may be provided to secure the unit to the floor. Brackets for anchoring to floor after installation (90010271). **Accessories** Getinge Lancer Ultima kit for Labexia range racks No Getinge Lancer Ultima kit for accessories If you are in possession of LABEXIA range racks, they can Getinge Lancer Ultima kit for accessories (70270241) be used in new models of the Getinge Lancer Ultima Quantity: series. A wheels adapter kit is nevertheless necessary so your racks are completely interchangeable and can be used indifferently in the both ranges of washers LABEXIA/ Getinge Lancer Ultima without another manipulation. **After market options** A conductivity kit can be added at a later stage. Pump pressure kit can be added at a later stage.

Preventive maintenance

Annual preventive maintenance agreements ensure optimum washer performance and extend equipment life. Contact us for details.

Utility requirements

Utility	Characteristic	Connection	Consumption
Water • cold • hot • DI Pressure: 200 to 600 kPa / 29 to 87 psi Flow: 20 L/min (5.25 gpm) Temperature: Ambient up to 50°C (122°F)		Male threaded: 20/27 (¾")	30–35 L (7,9–9.2 gal) (for each filling or draining phase)
Drain cooling water (if option selected)	Pressure: 200 to 600 kPa / 29 to 87 psi Flow: 20 L/min (5.25 gpm) Temperature: < 25°C (< 77°F)	Male threaded: 20/27 (¾")	20 L/min (5.25 gpm)
Compressed air (if option selected) • Steam heating with pneumatic valve • Drop drain	Pressure: 200 to 600 kPa / 29 to 87 psi Flow: 200 L/min (53 gpm) Filtration: 5 µ	Male threaded: 20/27 (¾")	Minimal consumption
Compressed air (if option selected) • DI water loop control (if option selected) (pneumatic valve + clamp included) • Final rinse kit	Pressure: 500 to 700 kPa / 70 to 100 psi Flow: 200 L/min (53 gpm) Filtration: 5 μ	Male threaded: 20/27 (¾")	Minimal consumption
Steam feed and steam condensate (if option selected)	Pressure: 200 to 600 kPa / 29 to 87 psi	Male threaded: 15/21 (½")	120 kg/h (265 lb/h) max 30 kg/h (66 lb/h) per cycle Typically 1 cycle/hour is used
Electricity	Voltage: request Frequency: 50/60 Hz	Cable (50 Hz) No cable (60 Hz)	See Electrical Table
Vapor exhaust	Atmospheric exhaust hood located 300 (12") to 1000 mm (40") above exhaust pipe		120 m³/h
Drain	Fixed standpipe and plumbing trap Height above floor: from 800 (31") to 900 mm (35")	Inner Diameter: 40 mm (1½")	Required to handle 40 L/min (10.5 gpm) max temp 95°C (203°F)
Overflow safety discharge	Fixed standpipe and plumbing trap Height above floor: maximum 500 mm (20")	Outside Diameter: 32 mm (11/4")	20 L/min (5.25 gpm) max temp 95°C (203°F)
Drain (if option selected) Gravity drop drain Final rinse kit	By gravity	Tube 33.7 mm (15/k") outlet into 2" floor sink	Required to handle 40 L/min (10.5 gpm) max temp 95°C (203°F)

Electrical

Voltage and frequency	kW	Full load amps (A / phase)	Amps protection (A)
200-208 VAC, 3+PE 50 Hz	21	59	63
200-208 VAC, 3+PE 60 Hz	21	59	63
220-240 VAC, 3+PE 50 Hz	21	53	63
220-240 VAC, 3+PE 60 Hz	21	53	63
380-400 VAC, 3N+PE 50 Hz	21	31	40
380-400 VAC, 3+PE 50 Hz	21	31	40
380-400 VAC, 3+PE 60 Hz	21	31	40
480V 3+PE 60 Hz	21	26	35

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Steam

Voltage and frequency	kW	Full load amps (A / phase)	Amps Protection (A)
200–208 VAC, 3+PE 50 Hz	4.2	12	16
200–208 VAC, 3+PE 60 Hz	4.2	12	16
220-240 VAC, 3+PE 50 Hz	4.2	11	16
220-240 VAC, 3+PE 60 Hz	4.2	11	16
380-400 VAC, 3N+PE 50 Hz	4.2	7	10
380–400 VAC, 3+PE 50 Hz	4.2	7	10
380–400 VAC, 3+PE 60 Hz	4.2	7	10
480 VAC, 3+PE 60 Hz	4.2	7	10

Operating Conditions

Room temperature	5–35°C (41–95°F)
Air humidity	Max 80 % vid 31°C (88°F)
Max surface temperature	50°C (123°F)
Water consumption	30–35 L/phase (7.9–9.2 gal/phase) (Varies with the load)
Ingress protection	IP21
Heat dissipation	5950 Btu/h, 1500 kcal/h
Noise level	\leq 60 dB(A) (According to Machinery Directive 2006/42/EC, on 1 m distance, 1.6 m above the floor, combined propagation in free fields on hard surface).

GETINGE LANCER ULTIMA MODEL 1600 LXP

Technical data components

Water circulation system

Design pressure	Max 600 kPa (87 psi)
8 F	
Operating pressure	200 kPa (29 psi)
- F	
Design temperature	120°C (248°F)
Operating temperature	Max 95°C (203°F)

Circulation pump

Max flow	750 L/min (198 gpm)
Motor	2.4 kW
Material construction	Bulk moulding compound + glass fiber

Drain pump

Max flow	50 Hz: 55 L/min (14.5 gpm) 60 Hz: 20 L/min (5.3 gpm)
Motor	50 Hz: 170 W 60 Hz: 47 W
Material of construction	PP

Water circulation system

Flow, peristaltic pump	50 Hz: (detergent) 232 mL/min (acid) 207 mL/min
	60 Hz: (detergent) 0.0739 gpm (acid) 0.0547 gpm

Heater steam

Heating velocity	7–8 °C/min (44.6–46.4°F/min) (dependent on steam pressure)
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Heater electrical

Heating velocity	3.5–4°C/min (39°F/min) (dependent on voltage)
Installed power	400 V: 18 kW, 230 V: 18 kW

Dryer

Installed power, heaters	4.2 kW
Installed fan motors	3 × 53 W

GETINGE LANCER ULTIMA MODEL 1600 LXP

Notes



Getinge is a global provider of innovative solutions for Life Science companies and institutions, operating rooms, intensive care units and sterilization departments. Based on our firsthand experience and close partnerships with Life Science companies, clinical experts, healthcare professionals and medtech specialists, we are improving everyday life for people – today and tomorrow.

