

Reliance® 100 Series

Laboratory Glassware Washers



APPLICATION

Reliance 100 Series Glassware Washers are intended for laboratory environments for point-of-use automatic cleaning and drying of typical laboratory glassware and plastic items. These environments include analytical and quality control, university, waste water treatment plants, biotechnology and other research laboratories.

DESCRIPTION

The Reliance 100 Series Laboratory Glassware Washer is available in three Models: 100, 100LS and 100XLS. The 100 and 100LS Models are built as either freestanding or undercounter washers. The XLS Model is built as a freestanding washer but can be mounted under a counter.



Model shown is 100LS with window, details may vary.

Selections Checked Below Apply To This Equipment

MODEL

- 100 Freestanding
- 100 Undercounter
- 100LS Freestanding with Window
- 100LS Freestanding without Window
- 100LS Undercounter with Window
- 100LS Undercounter without Window
- 100XLS Freestanding¹

- Upper Spindle Rack for Model 100 (No Slides)³
- Lower Spindle Rack⁴
- Lower Standard Rack³
- Utensil Holder
- Utensil Basket With Cover
- Bulk Test Tube Insert
- Insert for 240 Test Tubes
- Insert for 144 Test Tubes⁵
- Insert for 105 Test Tubes⁵

- Small Glassware Holder With Height Adjustable Clips⁷
- Large Glassware Holder with Height Adjustable Screw
- Small Spindles With Clips Package⁸
- Liquid Detergent Dispenser Kit⁹
- Detergent and Acid Aid Dispenser Kit⁹
- Rinse Aid Detergent Dispenser⁹
- Printer

VOLTAGE

- 115 V, 60 Hz, 1-Phase²
- 208/230 V, 50/60 Hz, 1-Phase

- Cover for Test Tube Inserts
- Insert for Labware - 10 Pins
- Insert for Labware - 32 Pins

1. Can also be installed under a counter.
2. 115 V is not available for Model 100XLS.
3. One rack is included in Model 100.
4. One rack is included in Models 100LS/100XLS.
5. Operates on lower level only.
6. Requires lower spindle rack.
7. 18 included in Models 100LS/100XLS and lower spindle rack.
8. One package included with Models 100LS/ 100XLS
9. Models 100 and 100LS only.

ACCESSORIES

- Base Stand for Models 100 and 100LS
- Base Stand for Model 100XLS
- Upper Standard Rack for Models 100LS and 100XLS (With Slides)
- Upper Spindle Rack for Models 100LS and 100XLS (With Slides)⁵
- Upper Standard Rack for Model 100 (No Slides)

- Insert for Labware - 48 Pins
- Cover for Labware Inserts
- Insert for BOD Bottles
- Insert for Petri Dishes
- Insert for Trays⁵
- Insert for 24 Large Pipettes⁶
- Drain Water Cooling Kit (208/230 V)
- Drain Water Cooling Kit (115 V)

Item:	
Locations:	

SPECIFICATIONS

Size (W x H x L)	Freestanding Models 100 and 100LS: 618 x 817 to 916 x 705 mm (24.3 x 32.2 to 36.1 x 27.8") Undercounter Models 100 and 100LS: 611 x 815 to 914 x 703 mm (24.1 x 32.1 to 36 x 27.7") Model 100XLS: 818 x 817 to 916 x 705 mm (32.2 x 32.2 to 36.1 x 27.8")
Interior Wash Chamber Dimensions (W x H x L):	With Spindle Racks: 574 x 460 x 541 mm (22.6 x 18.1 x 21.3") With Standard Racks: 574 x 480 x 541 mm (22.6 x 18.8 x 21.3")
Loading Height:	303 to 354 mm (11.9 to 13.9")

STANDARDS

- UL Standard 61010-1
- CAN/CSA C22.2 No. 61010-1
- CE Conformity marking (230V, 50/60 Hz models only)
- Suitable with ADA-height casework (all models)

FEATURES

The **Reliance 100 Model** is provided with two standard racks which can be interchanged with spindle racks as required.

The **Reliance 100LS Model** is provided with a lower 36-spindle rack to process narrow neck glassware such as volumetric and Erlenmeyer flasks and pipettes.

- An upper standard or spindle rack can be added for two level washing capabilities. Heated air is injected in spindles to ensure efficient drying of load items
- Racks are easily interchanged.
- The model may be equipped with a window, as shown in the [figure](#).

The **Reliance 100XLS Model** differs from the 100 and 100LS Models by addition of advanced features. These advanced features include:

- HEPA filtered forced air drying
- USB port
- Water conductivity monitoring and a standard observation window.

The 100XLS Model is provided with a lower spindle rack with 36 spindles for narrow neck glassware that is interchangeable with other accessories.

Front Loading Drop-Down Door is constructed of #304 stainless steel with built in detergent and rinse aid dispensers. The "smart" rinse aid reservoir provides Adjustable Dosing Volume and Low-Volume alarm. The electronic Latch can be set to automatically open to speed drying process.

Model 100XLS and select 100LS models are equipped with a **tempered glass Viewing Window and 25-Watt interior light** to facilitate visual monitoring of the cleaning. The window is surrounded by a bright LED strip.

Insulated Construction of chamber exterior reduces heat loss and noise level to work area.

Wash Chamber is constructed of 20 gauge, #304 stainless steel (No. 3 finish). Chamber inhibits corrosive action of detergents and is easy to clean. Chamber is equipped with no enameled surfaces to chip or crack should an object be accidentally dropped.

Rotary Spray Assembly is constructed of #304L stainless steel (No. 3 finish) and positioned at the top and bottom of the wash chamber. Assembly ensures complete coverage of all load surfaces. Rear water distribution assembly automatically connects to racks when pushed into position. Middle wash arm positioned on optional upper racks.

Located at the bottom of the wash chamber, the **1.2 kW Heating** (115 V Models) system raises and maintains water temperature up to 93°C (199°F) during the wash and rinse phases. Forced air drying into the tank programmable up to 240 minutes and from 25-80°C (77-176°F)

Located at the bottom of the wash chamber, the **2 kW Heating** (208/230 V Models) system raises and maintains water temperature up to 93°C (199°F) during the wash and rinse phases. Forced air drying into the tank programmable up to 240 minutes and from 25-80°C (77-176°F)

Removable Debris Screen, constructed of #304L stainless steel (No. 3 finish), located at the bottom of the sump, prevents large debris from entering the piping system and pump. Screen can be removed for cleaning without the need of tools.

Optional Detergent and Acid Rinse Dispenser Kit connects to the washer to automated liquid detergent and neutralizing acid rinse aid dispensing (Reliance 100 and 100LS Models only).

Optional Liquid Detergent Dispenser is designed to reduce handling of chemicals, minimize waste and lessen residues (Reliance 100 and 100LS Models only).

Optional Rinse Aid Detergent Dispenser connects to the washer to automate neutralizing acid rinse aid dispensing (Reliance 100 and 100LS Models only).

Steam Generator produces hot vapor to penetrate and soften dried contaminants for more effective cleaning. External steam is not required.

Up to eight Pure Water Final Rinses are available using water drawn by an integral pump from a storage tank or pressurized pure water source.

Dual Pumps, one for washing and one for draining, reduce the potential for cross contamination.

Powerful Pump Recirculates Water to dislodge dried contaminants for thorough cleaning. The 660-990 Watt pump recirculates water at 363 L/min (96 gal/min) on 115 V, 60 Hz and 230 V, 50 Hz Models while 424 L/ min (112 gal/min) on 230 V, 60 Hz Models.

Sanitizing High Heat, reaches 93°C (199°F), water is used to sanitizing glassware. This high heat water also enables enhanced rinsing and faster drying.

Forced Air Drying System blows hot air (HEPA filtered for the XLS Model) into the chamber and through the spindles on Reliance 100LS and LS Models to dry glassware. No separate dryer or oven is needed.

Non-Vented System ensures the chamber vapors are exhausted to the room through a condenser and eliminates the need to connect the washer to a duct system.

Drain Discharge Cool Down Option ensures all water drained from wash chamber sump is at a temperature that complies with international plumbing codes. Optional accessory kit provides plumbing components, solenoid valve and electrical connections necessary to mix cold tap water with hot drain water to ensure water temperature is < 60°C (<140°F) when it is directed to the house drain system. To achieve this temperature, when the drain pump activates the solenoid valve opens releasing the flow of cold tap water to the drain to mix with the hot drain water.

Additional standard features for the Reliance 100XLS Model:

- **Automatic Liquid Detergent Dispenser.** A peristaltic pump automatically draws a programmed amount of liquid detergent during wash cycles.
- **Automatic Rinse Aid Dispenser.** A peristaltic pump automatically draws a programmed amount of acid rinse during the rinse cycle.
- **Water Conductivity Monitoring.** A sensor measures the level of dissolved inorganics such as calcium and ferrous ions in the storage tank water, providing validation of water cleanliness, hardness and rinsing thoroughness. Confirms that detergent, rinse aid and purified water have been properly dispensed. Additional rinse steps are skipped once the conductivity set point has been reached, thus reducing water consumption.

SAFETY FEATURES

A safety door switch prevents starting a cycle when door is opened or if door is not fully closed.

Program lock locks parameters into memory to prevent inadvertent changes on set program.

CONTROL PANEL

Full color touch screen display providing full user control.

- Clear and specific alarm displays
- Calibratable setpoints such as: temperature, fill volume, detergent dispensing, and conductivity (for XLS model)
- Ethernet port for remote monitoring via local LAN page and software download/ update. Can also be used to transmit email alerts (mid cycle, cycle complete).

- Self diagnostics to aid in servicing and troubleshooting
- Password protection to secure washer from unauthorized changes
- User configurable delayed start (up to 12 hours)
- USB Data Output

CYCLE DESCRIPTIONS

Reliance 100 and 100LS Laboratory Glassware Washers feature nine pre-programmed operator-selectable programs and up to 200 user set programs. On the 100XLS Model, there are 12 pre-programmed operator selectable programs and up to 200 user set programs. Each cycle can be programmed for up to two washes and eight pure water or tap water rinses.

The standard dry cycle is adjustable from up to 240 minutes.

Standard available treatments include: one pre-wash, optional steam cycle, one wash (up to two for 100XLS Model), up to eight rinses, purified or tap. Wash and rinse temperature can be selected between 38 and 93°C (100 and 200°F). Drying temperature is adjustable between 25 and 80°C (77 and 176°F).

Once a cycle is selected, the glassware washer automatically processes the load through the pre-programmed treatments. Cycle values are locked in and cannot be changed until cycle is completed.

On initial start up, latch the door lock and press display to select the program. Change the parameters according to your needs and push the Run/Cancel button to start the program. The glassware washer will automatically process the load through the following typical factory set phases:

WASH 1: Sump drains and fills with tap water from building supply line. Load is sprayed for the selected time. When treatment is completed, washer performs a drain and fill (to drain soiled water while flushing the tank with clean water).

WASH 2: Sump fills with hot tap water from building supply line. On the 100 and 100LS Models, the detergent cup opens and detergent fills the tank. An optional liquid detergent dispenser (standard on 100XLS Model) automatically injects a preselected amount of liquid detergent into the water. The solution starts recirculating and is heated and maintained at the selected temperature, up to 93°C (199°F). Once temperature is reached, solution is sprayed over the load for the selected time. When the treatment is completed, a drain and fill is performed. If required, an accessory drain water cooling kit cools the water < 60°C (< 140°F) before it is directed into the house drain system.

RINSE 1: Sump fills with tap water or pure water. A preselected amount of neutralizing acid rinse is automatically injected into the water. Neutralizing acid rinse injection rate is adjustable from 0-40 mL. The solution starts recirculating and is heated and maintained at the selected temperature.

RINSE 2 (Or More): Sump fills with tap water or pure water. Water is heated and maintained at the selected temperature. Load is sprayed for the selected time.

NOTE: Pure water can be pressurized or non-pressurized. An integral pure water pump is standard on all Reliance 100 Series Washers.

DRY: During the dry phase, force heated air is circulated throughout the chamber in the Reliance 100 Model and through the chamber and spindles in the Reliance 100LS and 100XLS Models. Dry temperature is set between 25-80°C (77-176°F) and to operate up to 240 minutes. Air is HEPA filtered in the Reliance 100XLS Model.

TECHNICAL DATA

Washers are controlled by a digital temperature probe which continually monitors the wash and rinse temperatures. If the temperature set point is not reached in the allotted time the controller will sound an alarm and alert the operator.

Sump capacity is 12.9 L (3.4 U.S. gals) ensuring low water consumption.

An electronic sensor in the washer senses any internal leaks and shuts off the inlet valve to prevent flooding.

An internal pressure switch provides accurate fills and monitors overflow and underfill of water levels. User is alerted if there is a problem. If there is an alarm, control cancels cycle and drains the water from the washer. This prevents a cycle from running without the proper amount of water in the chamber or overflowing during operation.

ACCESSORIES

Base Stand elevates washer 432 mm (17") for washer loading convenience and storage of supplies. Constructed of #304 stainless steel.

Drain Water Cooling Kits provide plumbing components to mix cold tap water with hot drain water so that < 60°C (< 140°F) water is directed to the house drain system.

Liquid Detergent Dispenser connects to the Reliance 100 and 100LS Washers during installation to automate liquid detergent dispensing (one pump). Feature is standard on the 100XLS Model.

Liquid Detergent & Acid Rinse Dispenser Kit connects to the Reliance 100 and 100LS Washers during installation to automate liquid detergent and acid dispensing (2 pumps). Feature is standard on the 100XLS Model.

Rinse Aid Detergent Dispenser connects to the Reliance 100 and 100LS Washers during installation to automate acid detergent dispensing (one pump). Feature is standard on the 100XLS Model.

Refer to [Glassware Racks and Support](#) for further information on the following accessories:

Lower Spindle Rack is included with the Reliance 100LS and 100XLS Washers, but may be used in the Reliance 100 Washer to clean narrow neck glassware. Constructed of #304 stainless steel, includes 36 removable spindles, 36 adjustable height clips, 10 small spindles, 18 plastic glassware holders, tool to remove spindles and 36 nylon plugs. Spindles may be removed and plugged to accommodate accessory inserts.

Lower Standard Rack is included with the Reliance 100 Washer but may be used in the Reliance 100LS and 100XLS Washers to clean beakers, other wide mouth glassware and miscellaneous items. Constructed of #304 stainless steel.

Upper Standard Rack is included with the Reliance 100 Washer and may be used in the Reliance 100LS and XLS Washers to clean beakers, other wide mouth glassware and miscellaneous items. The upper rack can be installed at two different positions for maximum flexibility. Constructed of #304 stainless steel.

Utensil Holder for spatulas, spoons, scoops and other miscellaneous utensils. Utensils fit vertically in four compartments. Constructed of #304 stainless steel.

Utensil Basket and Cover for miscellaneous labware such as stoppers, spatulas and other small lightweight items that do not pass through the No. 4 mesh sides and bottom.

Bulk Test Tube Insert holds a variety of sizes of test tubes including mixed batches. When insert is less than fully loaded, the divider may be adjusted to keep tubes upright. Constructed of #304 stainless steel.

Test Tube Inserts are designed to hold test tubes from 10 to 24 mm. Three types to choose from based on how many test tubes may be held (105, 144, 240). The 105 and 144 models are to be used on lower level only.

Cover for Test Tube Inserts is used to retain test tubes in place.

Labware Inserts hold a variety of wider-mouth flasks, beakers and other labware in inverted position. Three types to choose from (10, 32, 48 pins).

Cover for Labware Inserts can be used on 10 and 32 pin Labware Inserts to retain glassware in place.

BOD Bottle Insert holds up to 18 BOD bottles.

Petri Dish Insert holds up to 24 petri dishes, watch glasses and microtiter plates.

Tray Insert for pans, instrument trays, multi-purpose trays and other shallow containers. Can be used on lower level only.

Pipette Insert permits direct injection cleaning of up to 24 pipettes (1 to 50 mL). Self-sealing silicone check valves allow washing of partial or full loads. For use with Lower Spindle Rack only.




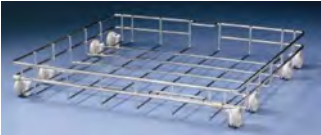


Small Glassware Holder with height adjustable clips to secure glassware over spindles. For the Reliance 100LS and 100XLS Washers, 18 holders are provided with the lower spindle rack.




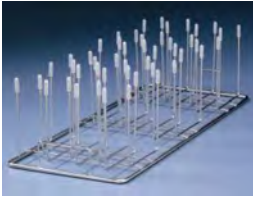

Large Glassware Holder with height adjustable screw to secure glassware over spindles. For the Reliance 100, 100LS and 100XLS Washers, holder is vinyl-coated #304 stainless steel.




Small Spindles With Clips Package For Small Glassware Package includes 10 small spindles (4.3" high x 0.12" OD) with 10 height adjustable clips, tool to remove large spindles, 36 nylon plugs and 18 height adjustment clips for large spindles. One kit is included with every Reliance 100LS and 100XLS Washers.






An External Thermal Printer can be provided to print receipt style cycle summary.

NOTE: Taller glassware may require removal of upper rack. Spindles should be removed for placement of beakers on spindle rack.

DESCRIPTION	OVERALL DIMENSIONS W x L x H mm (inches)	SHIP- PING WEIGHT kg (lb)	APPLICATION
Upper Spindle Rack (LC4668500; 100LS/100XLS) (LC4668600; 100) 	528 x 549 x 175 (20.8 x 21.6 x 6.9)	10 (23)	Clean up to 36 narrow neck glassware items. Maximum load weight: 50 lb (23 kg).
Upper Standard Rack (LC4668700; 100LS/100XLS) (LC4668800; 100) Typical 	546 x 528 x 152 (21.5 x 20.8 x 6.0)	9 (20)	Cleans wide mouth glassware. Maximum load weight: 50 lb (23 kg).
Lower Spindle Rack (LC4668900) 	544 x 531 x 218 (21.4 x 20.9 x 8.6)	10 (21)	Clean up to 36 narrow neck glassware items.
Lower Standard Rack (LC4669000) 	540 x 530 x 90 (21.3 x 20.9 x 3.5)	5 (11)	Cleans wide mouth glassware.
Utensil Holder (LC4575200) 	208 x 208 x 203 (8.2 x 8.2 x 8.0)	2.3 (5)	For holding spatulas, spoons, scoops and other utensils.
Utensil Basket and Cover (LC4573100) 	226 x 226 x 102 (8,9 x 8,9 x 4)	1.4 (3)	For miscellaneous labware such as stoppers, spatulas and other small items that do not pass through No. 4 mesh.

DESCRIPTION	OVERALL DIMENSIONS W x L x H mm (inches)	SHIP- PING WEIGHT kg (lb)	APPLICATION
Bulk Test Tube Insert (LC4573500) 	218 x 450 x 213 (8.6 x 17.7 x 8.4)	2.7 (6)	Holds up to 600 13 mm tubes, or 244 20 mm tubes. The divider can be adjusted for smaller loads.
Test Tube Inserts (LC4573600; 240 Test Tubes) Typical 	240: 216 x 470 x 114 (8.5 x 18.5 x 4.5)	240: 2.3 (5)	240: For 10 to 13 mm tubes.
(LC4573700; 144 Test Tubes)	144: 216 x 475 x 165 (8.5 x 18.7 x 6.5)	144: 1.4 (3)	144: Can accommodate 144 to 162 15 to 18 mm tubes, lower level only.
(LC4573800; 105 Test Tubes)	105: 216 x 470 x 249 (8.5 x 18.5 x 9.8)	105: 1.4 (3)	105: For 20 to 24 mm tubes, lower level only.
Labware Inserts (LC4401581; 10 Pins)	10: 218 x 490 x 203 (8.6 x 19.3 x 8.0)	10: 1.4 (3)	Pins hold a variety of wide mouth flasks, beakers and other labware in inverted position.
(LC4401881; 32 Pins) 	32: 223 X 490 X 150 (8.8 x 19.3 x 5.9)	32: 1.4 (3)	
(LC4574200; 48 Pins) 	48: 223 X 475 X 130 (8.8 x 18.7 x 5.1)	48: 1.8 (4)	
Insert for BOD Bottles (LC4589281) 	495 x 222 x 152 (19.5 x 8.7 x 6)	1 (2)	Holds up to 18 bottles (maximum 70 mm [2.75"] diameter).

DESCRIPTION	OVERALL DIMENSIONS W x L x H mm (inches)	SHIP- PING WEIGHT kg (lb)	APPLICATION
Insert for Petri Dishes (LC4589781) 	490 x 220 x 157 (19.3 x 8.7 x 6.2)	1.4 (3)	Holds up to 24 petri dishes, watch glasses or microtiter plates.
Insert for Trays (LC4573000) 	241 X 457 X 236 (9.5 x 18.0 x 9.3)	1.4 (3)	Holds up to five pans, trays or shallow containers.
Insert for 24 Large Pipettes (LC4575400) 	114 X 221 X 147 (4.5 x 8.7 x 5.8)	3.6 (8)	Holds 24 pipettes, 1 to 50 mL. To be used in conjunction with the lower spindle rack (maximum four inserts per rack).
Cover for Test Tube Inserts (LC4573900)	216 x 485 x 6 (8.5 x 19.1 x 0.25)	0.7 (1.5)	Retainer top for test tube inserts.
Cover for Labware Inserts (LC4401981)	203 x 470 x 3 (8.0 x 18.5 x 0.13)	0.5 (1)	Retainer top for labware inserts.
Base Stand for Model 100 and Model 100LS (LC4653500)	645 x 612 x 432 (25.4 x 24.1 x 17.0)	66 (145)	Elevate washer by 43 cm (17") and provide supply storage.
Base Stand for Model 100XLS (LC4653300)	813 x 638 x 432 (32.0 x 25.1 x 17.0)	81 (179)	Elevate washer by 43 cm (17") and provide supply storage.

Glassware Processing Capacity					
ACCESSORIES NAME	 VOLUMETRIC FLASKS	 ERLENMEYER FLASKS	 GRADUATED CYLINDERS	 PIPETTES	 BEAKERS
Upper Spindle Rack	10 to 200 mL	10 to 250 mL	10 to 25 mL	N/A	10 to 500 mL
Upper Standard Rack	N/A	N/A	10 to 25 mL	N/A	10 to 500 mL
Lower Spindle Rack	10 to 2000 mL	10 to 1000 mL	10 to 500 mL	1 to 50 mL	20 to 4000 mL
Lower Standard Rack	N/A	N/A	10 to 500 mL	N/A	20 to 4000 mL

NOTE: Taller glassware may require removal of upper rack. Spindles should be removed for placement of beakers on spindle rack.

Engineering Data

MODEL	SHIPPING WEIGHT ¹ kg (lb)	OPERATING WEIGHT ¹ kg (lb)	A-WEIGHTED EQUIVALENT SURFACE SOUND dB	HEAT LOSS BTU/min 115V 230V	HOT WATER L (U.S. gal) PER FILL	PURE WATER L (U.S. gal.) PER FILL
Reliance 100	104 (230)	88 (194)	< 62	< 68 < 114	13 (3.4)	13 (3.4)
Reliance 100LS	106 (234)	89 (196)	< 62	< 68 < 114	13 (3.4)	13 (3.4)
Reliance 100XLS	133 (294)	114 (252)	< 62	< 68 < 114	13 (3.4)	13 (3.4)

1. Weight based on free standing.

Utility Requirements

ITEM	HOT WATER	PURIFIED WATER	DRAIN	COLD WATER ²
Size	¾"-11 ½ GHT	¾"-11 ½ GHT	5/8" or Larger	5/8" Female Compression fitting
Dynamic Pressure	138 to 827 kPa (20 to 120 psig)	0 to 827 kPa (0 to 120 psig)	N/A	138 to 827 kPa (20 to 120 psig)
Building Water Supply Temperature	Minimum: 49°C (120°F) Recommended: 60°C (140°F)	N/A	N/A	Maximum: 12°C (54°F)
Flow Rate	4.7 L/min (1.25 U.S. gpm)	3.4 L/min (0.9 U.S. gpm)	26 L/min (7.0 U.S. gpm)	13.2 L/m (3.5 U.S. gpm)
Electricity	115 V, 60 Hz, 1-Phase, 16 Amp (Models 100 and 100LS Only) 208/230 V, 50/60 Hz, 1-Phase, 11 Amp			

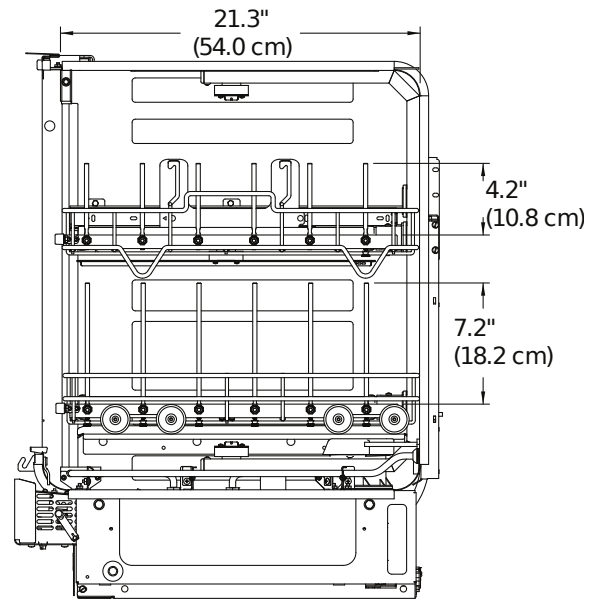
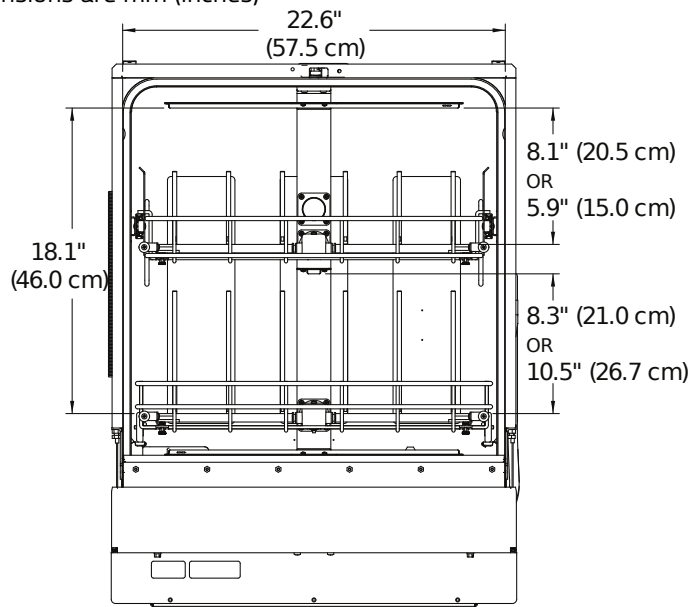
2. Cold water is only required if optional drain cooling kit is selected.

CUSTOMER IS RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE LOCAL AND NATIONAL CODES AND REGULATIONS

Dimension

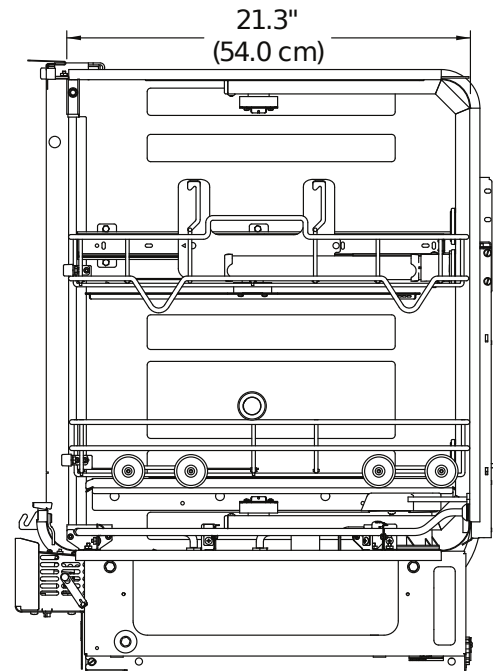
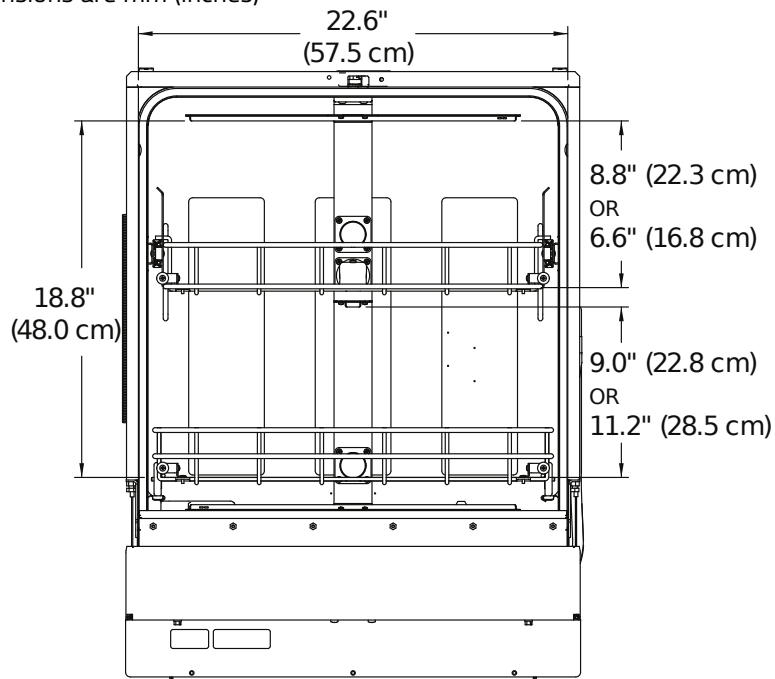
INSIDE DIMENSIONS WITH LOWER AND UPPER SPINDLE RACKS

Dimensions are mm (inches)



INSIDE DIMENSIONS WITH LOWER AND UPPER STANDARD RACKS

Dimensions are mm (inches)



PREVENTIVE MAINTENANCE

A global network of skilled service specialists can provide periodic inspections and adjustments to help ensure low-cost peak performance. STERIS representatives can provide information regarding annual maintenance programs.

NOTES

1. This unit is not designed for use in areas that require explosion proof rated equipment.

Refer to the Following Equipment Drawing for Installation Details	
Equipment Drawing Number	Equipment Drawing Title
11982143	Reliance 100 Series Laboratory Glassware Washers (Undercounter, 115 V)
11986721	Reliance 100 Series Laboratory Glassware Washers (Freestanding, 115 V)
11986720	Reliance 100 Series Laboratory Glassware Washers (Undercounter, 230 V)
11986725	Reliance 100 Series Laboratory Glassware Washers (Freestanding, 230 V)
11986970	Reliance 100LS Series Laboratory Glassware Washers (Undercounter, 115 V)
11986968	Reliance 100 Series Laboratory Glassware Washers (Freestanding, 115 V)
11986971	Reliance 100LS Series Laboratory Glassware Washers (Undercounter, 230 V)
11986969	Reliance 100LS Series Laboratory Glassware Washers (Freestanding, 230 V)
11986972	Reliance 100XLS Series Laboratory Glassware Washers (Freestanding, 230 V)

For Further Information, contact:



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The base language of this document is ENGLISH. Any translations must be made from the base language document.

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