

**APPLICATION**

For drying large quantities of glassware, plasticware and metal goods typically used in research and quality control laboratories.

**DESCRIPTION**

Reliance 1044 High Laboratory Glassware Dryer is a heavy duty, fully automatic dryer, utilizing forced air to efficiently dry loads.

*NOTE: Reliance 1044 Dryer is not designed to accept washer accessories.*

**Size (W x H x D)**

Chamber load capacity:

- 30 x 53-3/4 x 24-1/2" (762 x 1365 x 622 mm)

Overall dimensions:

- 36 x 80 x 32" (914 x 2032 x 813 mm)

Loading height is 36" (914 mm) from the floor.

**FEATURES**

**Control panel** is mounted on the upper front of the cabinet, above the door. Panel includes illuminated START and STOP pushbuttons, digital cycle timer and digital temperature controller.

- **Adjustable Digital Cycle Timer** allows operator to set cycle time up to 99:59 hours. Once set time is expended, drying system automatically shuts off.
- **Adjustable Temperature Controller** is a multi-range controller with advanced PID control. Controller allows operator to set drying temperature up to 500°F (260°C). Controller also includes a digital temperature gauge for constant monitoring of chamber temperature.

**Drying system** forces the circulation of heated air throughout the chamber. System requires 35 minutes to heat chamber air from ambient temperature to 500°F (260°C). Drying time should be set according to the nature of the load and temperature setting. Drying system consists of:



(Typical only - some details may vary.)

- **Six finned-strip electric heaters** located in bottom of chamber, beneath the bottom platform.
- **Recirculation fan** runs continuously for time period set on the digital timer.
- **Security thermal switch** cuts power to the dryer system should chamber temperature rise to 545°F (285°C). Pressing START pushbutton resets the timer and resumes dryer operation once chamber temperature falls within allowable limits.

**Three full-width, perforated shelves** are provided with the unit. The fixed shelf is positioned 36" (914 mm) from the floor. The remaining two shelves are removable and height-adjustable. Additional shelves are available as accessories.

**The Selections Checked Below Apply to This Equipment**

**DOOR HINGE**

- Right
- Left

**VOLTAGE**

- 208 V, 3-Phase, 4-Wire
- 240 V, 3-Phase, 3-Wire

**ACCESSORIES**

- Additional Interior Shelf
- Barrier Wall Flange Kit

Item \_\_\_\_\_

Location(s) \_\_\_\_\_

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## CONSTRUCTION

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Dryer is fabricated to conform with seismic building code requirements. Cabinet and drying chamber are constructed of #304 stainless steel (No. 4 finish), argon-welded and polished. Bottom platform and three shelves are constructed of #304 perforated stainless steel (No. 4 finish). Welded stainless steel construction makes the drying chamber corrosion-resistant and easy-to-clean. Double wall construction ensures quiet operation.

Top and sides of the drying chamber are insulated with 3" thick, mineral wool-type insulation to minimize heat loss to the work area.

Double-panel cabinet door is constructed of #304 stainless steel (No. 4 finish), argon-welded and polished. Door is hinged either left or right, according to customer specifications. Door closes against a heat-resistant gasket.

Recirculation blower is powered by a 1/3 HP motor and is rated at 400 scfm (11.3 m<sup>3</sup>/min). Electric heaters are constructed of stainless steel and provide a total of 8.1 kW for 208 V unit and 10.8 kW for 240 V unit.

Two cooling fans are located in the service compartment to cool the recirculation blower and electronic components. Wiring and wire harness are "High Temperature" rated.

## MOUNTING ARRANGEMENT

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Dryer is designed as a fully cabinet-enclosed unit for freestanding or recessing installation. Stainless steel barrier wall flange kits are available as accessories for a finished wall appearance on recessed units.

## SERVICEABILITY

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Blower, motor and electrical components are easily accessible through the top of the dryer. Control panel is accessed from the front of the unit.

Dryer is interwired with only one connection for ease of service and utility hook-up.

## ACCESSORIES

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**Additional Interior Shelf** - perforated, stainless-steel shelf for inside of drying chamber.

**Barrier Wall Flange Kit** - includes two stainless-steel side flanges and one stainless-steel top flange to seal the opening between one end of a recessed dryer and the wall.

## PREVENTIVE MAINTENANCE

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

## ENGINEERING DATA

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Shipping Weight: 700 lbs (318 kg)

Shipping Dimensions (W x H x D):

36-1/2 x 89 x 38-1/2" (927 x 2261 x 978 mm)

Operating Weight: 780 lbs (354 kg)

Heat Loss\*: 7200 BTU/hr (7596 kJ/h)

\* At 75°F (24°C), 40% RH ambient.

## NOTES

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1. Unit must stand on a non-combustible surface.
2. Disconnect switch (with OFF position lockout only - not supplied by STERIS) should be installed in electric supply lines near the equipment.

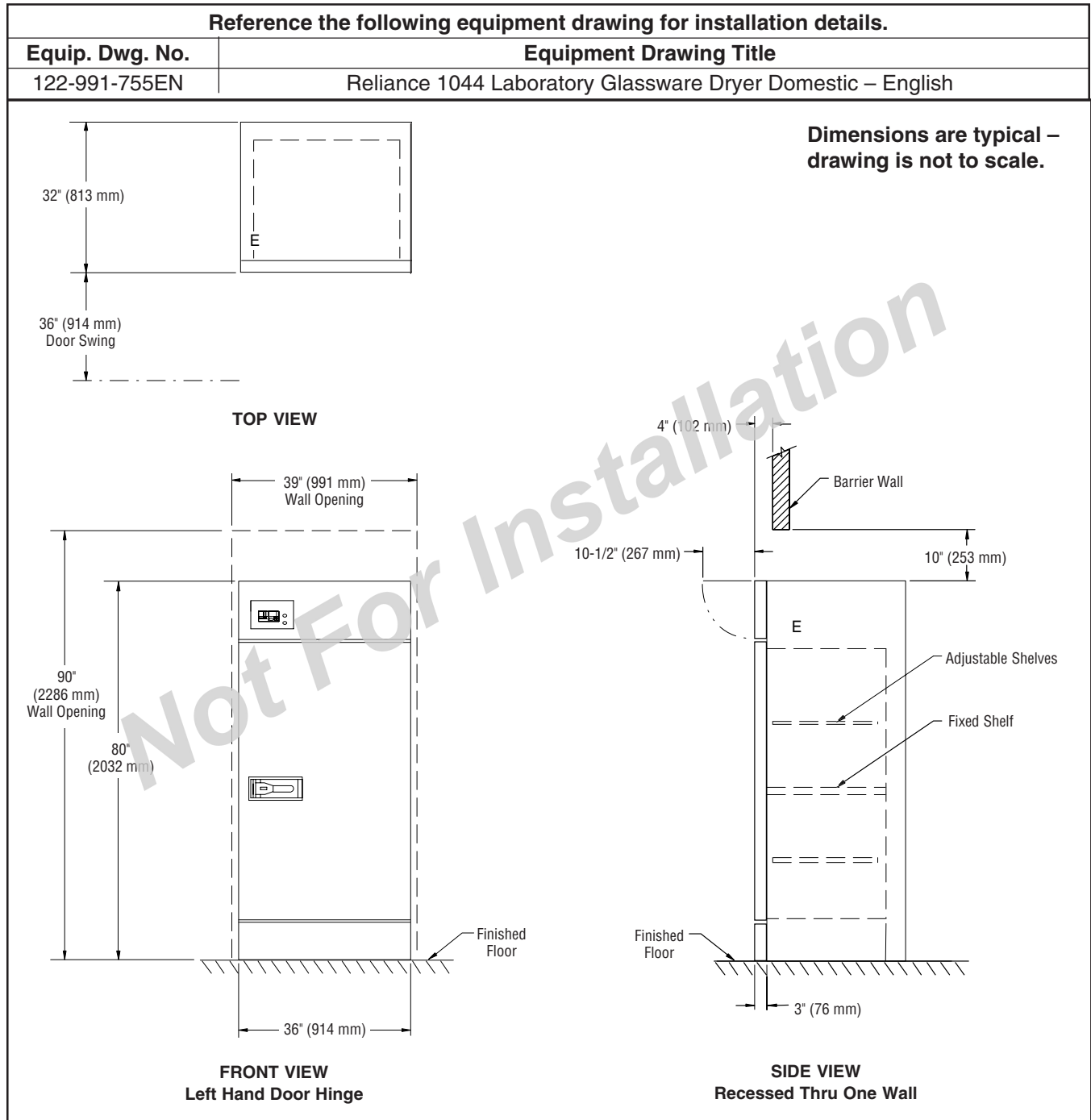
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Quebec, Qc, Canada is an ISO 9001 and  
ISO 13485 certified facility.**

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

## UTILITY REQUIREMENTS

### Electricity (E)

208 V, 60 Hz, 3-Phase, 4-Wire, 26.5 Amp; or 240 V, 60 Hz, 3-Phase, 3-Wire, 29 Amp



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**For further information, please contact:**

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