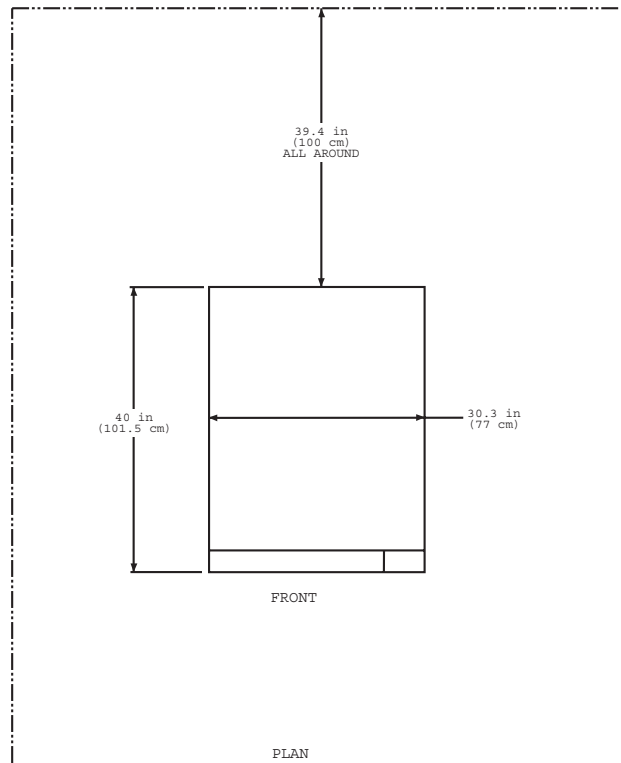
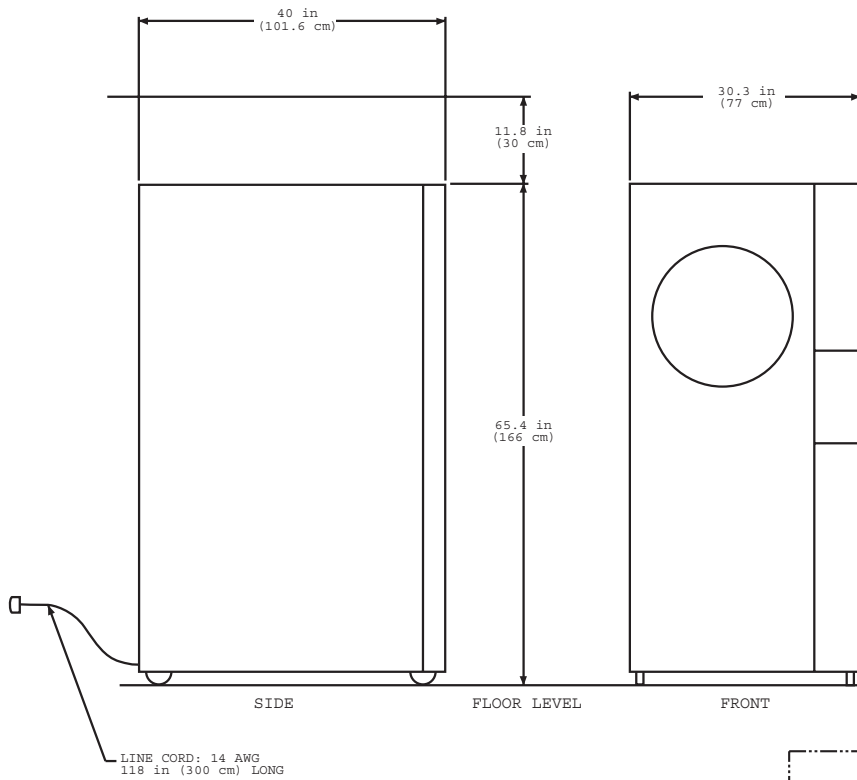


# STERRAD® 100S Sterilization System Installation Diagram



**ASP** ADVANCED STERILIZATION PRODUCTS®

a *Johnson & Johnson* company

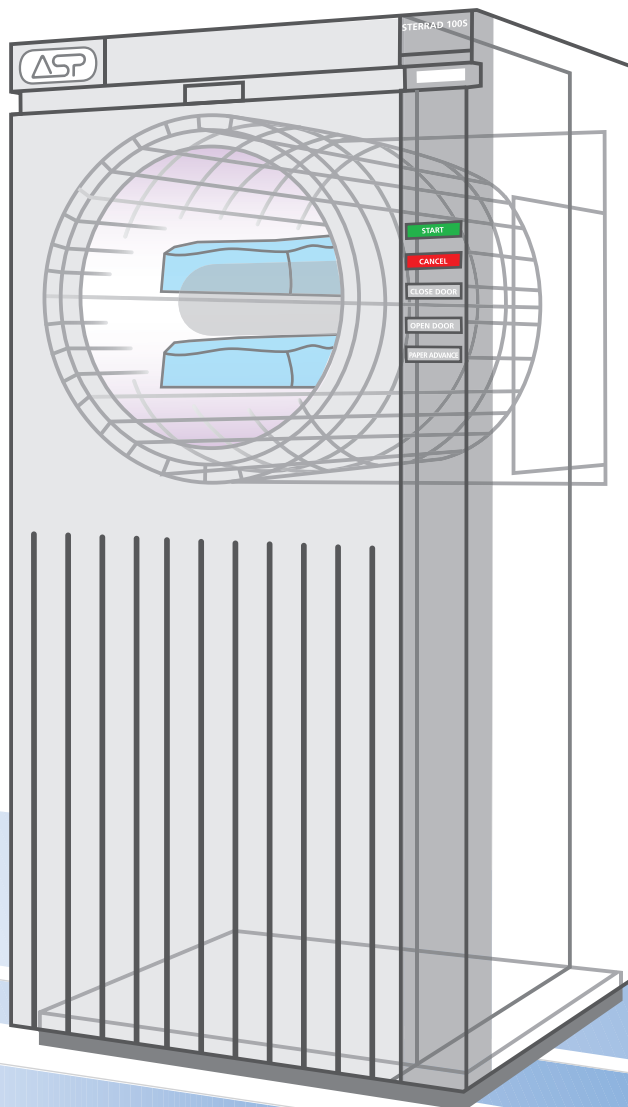
Division of Ethicon, Inc.

33 Technology Drive  
Irvine, California 92618

1-888-STERRAD  
www.sterrad.com

# STERRAD<sup>®</sup> 100S Sterilization System

## Installation Requirements and Product Specifications



 **ADVANCED STERILIZATION PRODUCTS<sup>®</sup>**

a *Johnson & Johnson* company

Division of Ethicon, Inc.

# STERRAD® 100S Sterilization System

## Model

The STERRAD® 100S System is a multi-purpose sterilizer intended for use in the sterile processing departments and ORs of hospitals and other medical facilities. The system employs the proprietary STERRAD Technology, a hydrogen peroxide gas plasma process to achieve at least a 10<sup>-6</sup> Sterility Assurance Level in a 55-minute cycle. Various types of medical instruments and equipment can be sterilized in the system, with the exception of liquids, cellulosic materials (paper, linen, cotton, etc.), and medical instruments with restrictive labeling. The STERRAD 100S System is designed to be freestanding and self-contained, with no required connections other than an electrical power cord. It is also equipped with wheels, permitting it to be easily rolled from one location to another. In addition, the system has adjustable feet at the front of the unit to enable leveling, if required.

## Hydrogen Peroxide Gas Plasma Process

Hydrogen peroxide is an oxidizing agent that affects sterilization by oxidation of key cellular components.

Plasma is a state of matter distinguishable from a solid, liquid, or gas. Gas plasmas are highly ionized gases composed of ions, electrons and neutral particles. The cloud of plasma is composed of ions, electrons and neutral atomic particles that produce a visible glow.

A solution of hydrogen peroxide and water (59% nominal peroxide by weight) is vaporized and allowed to surround and interact with the devices to be sterilized. Hydrogen peroxide is a bactericidal, virucidal, sporicidal and fungicidal agent, even at low concentration and temperature. Applying a strong electrical field then creates plasma. The plasma breaks down the peroxide into a “cloud” of highly energized species that recombine, turning the hydrogen peroxide into water and oxygen.

## Voltage/Frequency/Power

STERRAD® 100S System employs 208 VAC, 60 Hz power and requires a NEMA L 21-20 five wire grounding twist lock outlet attached to a dedicated 20 amp, 3 phase 208VAC circuit with separate neutral and ground conductors. The sterilizer requires a CBA phase rotation. The correct phase rotation must be present at installation.

## Service Requirements

In operation, the STERRAD® 100S System should not be placed closer than 2 inches (5 cm) to a wall at the rear and/or sides of the system. The sterilizer should be installed in a space of sufficient size to permit access to all four sides of the system when it is rolled from the rear and/or side walls a distance of 10 feet (3 meters), the extent of the power cord. Service access requires a minimum clearance of 3 feet (1 meter) on all sides of the system. The power receptacle should be positioned 12 inches to 24 inches (30.5 cm to 61 cm) above the floor.

## System Information

<b>Where Marketed</b>	Worldwide
<b>FDA Clearance</b>	Yes
<b>CE Mark</b>	Yes
<b>Liquid Chemical Agent</b>	Hydrogen Peroxide (59% nominal by weight)
<b>Agent Delivery System</b>	Cassette
<b>Ionized Species</b>	Hydrogen Peroxide
<b>Total Cycle Time</b>	55 Minutes
<b>Primary By-Products</b>	Water Vapor and Oxygen
<b>Biological Indicators</b>	Self-contained Biological Indicator with 48-hour readout.
<b>Chemical Indicators</b>	Chemical indicator tapes, strips & peel pouches.
<b>Types of Pouches/Wraps</b>	Tyvek®/MYLAR Pouches and Polypropylene CSR Wrap
<b>Temperature Range °C</b>	<55° C
<b>Approved Devices</b> (see User's Guide)	Metal, non-metal, heat- and moisture-sensitive instruments.

## Space Planning Information

<b>Input/Output</b>	
Display	LCD display
Hard Copy	Printer
Control Interface	Dedicated controls, touch panel
Alarms	Audible, Visual
<b>Chamber</b>	
Shape	Circular
Dimensions (HxWxD)	20 in x 20 in x 32 in (51.0 cm x 51.0 cm x 81.3 cm)
Usable Volume	100 liters, 3.5 cu. ft.
Shelves	Removable top shelf, fixed bottom shelf
Shelf Dimensions	Top: 28 in x 17 in (70 cm x 42.5 cm) Bottom: 30 in x 13 in (76 cm x 33 cm)
<b>Installation</b>	
Space Requirements (HxWxD)	78 in x 34 in x 42 in (166.4 cm x 86.4 cm x 106.7 cm)
Mobility	Movable
Venting Requirements	None required
Gas Tank Requirements	None required
Electrical Requirements	3 m/10 ft. power cord
Weight	349.3 kg/770 lbs.
<b>Electrical Operation</b>	
Also see Voltage/Frequency/ Power on previous page	208 VAC, 60 Hz 3 phase WYE, 20 amps NEMA L21-20 receptacle, CBA phase rotation
<b>Environmental Conditions</b>	
Air Exchanges	Minimum 10/hour
Altitude	-100 m to 3000 m msl (-330 ft. to 10,000 ft. msl)
Ambient Temperature	10° C to 40° C (50° F to 104° F)
Heat Generation	1919 BTU/Cycle
Relative Humidity	0% to 95%, noncondensing
<b>Warranty</b>	
Term	1 year parts and labor
Repairs/Service	Manufacturer
Service Network	Regional with regional supply depots
Response Time	24 hours 7 days/week, 365 days/year