

FREEZE / THAW CHAMBERS

TECHNICAL SPECIFICATIONS

MODEL: 7900 | 7901

TEMPERATURE PERFORMANCE	7900-25	7900-33	7901-25	7901-33
Temperature Range	-25°C to 70°C			
Temperature Control	±0.1°C			
Temperature Uniformity @ 20°C	±0.3°C			
Temperature Sensor	3-wire RTD			

HUMIDITY PERFORMANCE				
Humidity Range	20 to 95% RH	N/A	20 to 95% RH	N/A
Humidity Control	±2% RH*	N/A	±2% RH*	N/A
Humidity Sensor	Capacitive, Film	N/A	Capacitive, Film	N/A

CAPACITY & CONFIGURATION		
Work Space	25 cu. ft. (708 Liters)	33 cu. ft. (934 Liters)
# of Shelves	4 Standard; 25 Maximum	5 Standard; 31 Maximum
Shelf Dimensions	29.25" W x 24.45" D (74.3 cm x 62.1 cm)	
Shelf Construction	Type 304, Perforated Stainless Steel, Electropolished	

INTERIOR SPECIFICATIONS		
Interior Dimensions	32" W x 27" D x 51.3" H (81.3 cm x 68.6 cm x 133.9 cm)	32" W x 27" D x 64.4" H (81.3 cm x 68.6 cm x 166.9 cm)
Interior Construction	Type 304, 2B Finish, Solid Stainless Steel	

EXTERIOR SPECIFICATIONS		
Exterior Dimensions	35.5" W x 33.3" D** x 77.1" H (90.2 cm x 84.6 cm x 195.8 cm)	35.5" W x 33.3" D** x 90.1" H (90.2 cm x 84.6 cm x 228.9 cm)
Exterior Construction	Cold Rolled Steel, Powder Coated	

POWER SPECIFICATIONS	7900-25		7900-33		7901-25		7901-33	
	-2	-3	-2	-3	-2	-3	-2	-3
Electrical	208/230V, 60 Hz, 12A	230V 50 Hz, 12A	208/230V 60 Hz, 12A	230V 50 Hz, 12A	208/230V 60 Hz, 12A	230V 50 Hz, 12A	208/230V 60 Hz, 12A	230V 50 Hz, 12A

WEIGHT SPECIFICATIONS	7900-25	7900-33	7901-25	7901-33
Shipping Weight lbs	890 lbs	1030 lbs	870 lbs	980 lbs
Shipping Weight kg	404 kg	467 kg	395 kg	445 kg

Note: Specifications are subject to change without notice. Specifications are based on 20°C ambient and standard voltage. Humidity non-condensing. * ±3% when setpoint is above 90% RH. **Add 2.75" for handle. ***Includes export shipping crate. All units ship in crates.

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ACCESSORIES

MODEL: 7900 | 7901

STOCK NO.	DESCRIPTION	25		33	
		7900	7901	7900	7901
ALRM302	Remote Alarm Contacts for 7000 Series Chambers. Provides NO and NC dry contacts for alarms.	✓	✓	✓	✓
BOTL301	Side Mounted Carboy for Humidified Chambers. Water fill bottle with cap, 2.5 gallons (9.5 liters). Includes tubing and fittings.	✓		✓	
CLEN301	Upgrade 7400-25 series incubator to handle exterior wipedown with moderate cleaning chemicals. Upgrade includes stainless steel exterior hinges, stainless steel hardware, and coated magnetic door trim, Unit is suitable for use in a cleanroom.	✓	✓		
CLEN302	Upgrade 7400-33 series incubator to handle exterior wipedown with moderate cleaning chemicals. Upgrade includes stainless steel exterior hinges, stainless steel hardware, and coated magnetic door trim, Unit is suitable for use in a cleanroom.			✓	✓
CLEN303	Upgrade 7400-25 series incubator to handle exterior wipedown (and washdown when installed with WALL301) with aggressive cleaning chemicals. Upgrade includes 316 stainless steel on all exterior surfaces as well as hinges and hardware, coated magnetic door trim, and capacitive touchscreen. Unit is suitable for use in a cleanroom.	✓	✓		
CLEN304	Upgrade 7400-33 series incubator to handle exterior wipedown (and washdown when installed with WALL302) with aggressive cleaning chemicals. Upgrade includes 316 stainless steel on all exterior surfaces as well as hinges and hardware, coated magnetic door trim, and capacitive touchscreen. Unit is suitable for use in a cleanroom.			✓	✓
CO2C302	CO2 Control from 0 to 20% for 10, 22, 25, 33, 50 & 75 CF series chambers. Precision IR-CO2 sensor. Does not include decon cycle.	✓	✓	✓	✓
CRSY102-1	Universal Condensate Recirculating System; 115V, 60Hz	✓		✓	
CRSY102-4	Universal Condensate Recirculating System; 230V, 50/60Hz	✓		✓	
CRSY103	Integrated Condensate Recirculating System w/ H2O2				
CRSYKIT	Tubing and fitting kit to connect CRSY102 to two (2) chambers.	✓		✓	
DLOG301	On-board USB connections allow real time electronic data logging and storage to a USB flash drive. Logged parameters are time stamped and include chamber temperature and (if applicable) humidity, CO2 level, & light intensity. Records over one year of data.	✓	✓	✓	✓
DOOR310	Light tight door cover for 708 L (25 CF) series chambers/incubators (with glass). Factory installed at the time of order or can be retro-fitted in the field by a qualified technician.	✓	✓		
DOOR311	Solid insulated door (no glass) for 708 L (25 CF) series chambers/incubators. Note: cannot be used with accessory DOOR303. Factory installed at the time of order or can be retro-fitted in the field by a qualified technician.	✓	✓		

✓ standard feature

✓ not designed for unit, but can be installed

✓ if MODSTER305-307 is added

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STOCK NO.	DESCRIPTION	25		33	
		7900	7901	7900	7901
DOOR312	Light tight door cover for 934 L (33 CF) series chambers/incubators (with glass). Factory installed at the time of order or can be retro-fitted in the field by a qualified technician.			✓	✓
DOOR313	Solid insulated door (no glass) for 934L (33 CF) series chambers/incubators. Note: cannot be used with DOOR307. Factory installed at the time of order or can be retro-fitted in the field by a qualified technician.			✓	✓
DOOR321	Light tight door cover for 25 ft3 stainless steel incubators (that have been upgraded with CLEN303). Factory installed at the time of order or can be retro-fitted in the field by a qualified technician.	✓	✓		
DOOR322	Light tight door cover for 33 ft3 stainless steel incubators (that have been upgraded with CLEN304). Factory installed at the time of order or can be retro-fitted in the field by a qualified technician.			✓	✓
DRYR110	Noise Suppression Kit for DRYR301.	✓		✓	
DRYR301	Heatless Dryer Package, Purge Air System. Allows for operation the chamber at lower humidity levels (2% RH). Utilizes 90 to 100 psi compressed air.	✓		✓	
LGHT324	Interior Viewing LED Lighting System for 25 & 33 CF Series Chambers. Includes LED lighting strips located on the side walls of the chamber, and a 24 hour timer for day/night simulation. Not intended for plant growth.	✓	✓	✓	✓
LGHT340	LED (Orange) Lighting System for 25 and 33 CF chambers. Includes LED lighting strips located on the side walls, and a 24 hour timer for day/night simulation. Not intended for plant growth. Narrow range (500-700nm). Factory installed at time of order.	✓	✓	✓	✓
LGHT342	LED (Blue) Lighting System for 25 and 33 CF chambers. Includes LED lighting strips located on the side walls, and a 24 hour timer for day/night simulation. Not intended for plant growth. Narrow range (400-500nm). Factory installed at time of order.	✓	✓	✓	✓
LGHT601-1	Ultraviolet Germicidal Lamp deactivates microorganisms, for CRSY102-1. For 115V units.	✓		✓	
LGHT601-4	Ultraviolet Germicidal Lamp deactivates microorganisms, for CRSY102-4. For 230V units.	✓		✓	
LGHT602-4	UV Germicidal Lamp for Humidified 10, 25 & 33 CF Series Chambers. Deactivates microorganisms in-line with humidity water supply. For 230V units.	✓		✓	
LOCK301	Outer Door Lock for 25 & 33 CF Chambers.	✓	✓	✓	✓
LTCH301	One-handed outer door latch for use with 25 & 33 cu. ft. chambers. Factory or customer installed.	✓	✓	✓	✓
LTCH302	One-handed outer door latch, with integral key lock, for use with 25 & 33 cu. ft. chambers. Factory or customer installed.	✓	✓	✓	✓

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MODEL: 7900 | 7901

STOCK NO.	DESCRIPTION	25		33	
		7900	7901	7900	7901
LTCH303	One-handed outer door latch w/o lock for use with 25 & 33 ft3 stainless steel chambers (upgraded with CLEN303 or CLEN304). Factory or customer installed.	✓	✓	✓	✓
LTCH304	One-handed outer door latch with lock for use with 25 & 33 ft3 stainless steel chambers (upgraded with CLEN303 or CLEN304). Factory or customer installed.	✓	✓	✓	✓
OUTL331-2	Single interior outlet, NEMA 5-15 (115V, 60Hz) configuration with GFI protection. Fused at 1A. Humidity levels cannot exceed 90% RH with installation of this accessory. For use in refrigerated (7000, 7001, 7340, 7350, & 7900 series) 10 ft3, 25 ft3 and 33 ft3 incubators at 230V, 60Hz.	✓	✓	✓	✓
OUTL336-2	Three interior outlets, NEMA 5-15 (115V, 60Hz) configuration with GFI protection. Fused at 3A. Humidity levels cannot exceed 90% RH with installation of this accessory. For use in refrigerated (7000, 7001, 7340, 7350, & 7900 series) 25 ft3 and 33 ft3 incubators at 230V, 60 Hz.	✓	✓	✓	✓
OUTP301	Universal analog output (0-5V, 4-20mA) Provides one connection for monitoring temperature.		✓		✓
OUTP302	Universal analog output (0-5V, 4-20mA) Provides two connections for monitoring temperature and humidity, lights, or CO2.	✓		✓	
PORT301	Additional 2" Access Port for 10, 25 & 33 CF Chambers.	✓	✓	✓	✓
PORT305	Fresh Air Ports, with adjustable, sliding port cover. For 25 and 33 CF chambers. Factory installed at time of order.	✓	✓	✓	✓
PUMP301	Drain Water Pump for humidified chambers.	✓	✓	✓	✓
SHLF300	Additional Stainless Steel Perforated Shelf Kit. Includes 2 shelf tracks.	✓	✓	✓	✓
SHLF303	Additional Heavy-duty Stainless Steel Perforated Shelf Kit for 25/33 CF.	✓	✓	✓	✓
SHLF313	Heavy-duty Perforated Shelf Kit to replace standard shelving on 25 CF Chambers. Includes 3 heavy duty perforated stainless steel shelves.	✓	✓		
SHLF318	Heavy-duty Perforated Shelf Kit to replace standard shelving on 33 CF Chambers. Includes 4 heavy duty perforated stainless steel shelves.			✓	✓
STER301	Sterilization Module, Vaporized Hydrogen Peroxide. Complete with Condition, Sterilization, and Inactivation phases, less than 40 minutes overall. For use with 7410/7411/7420 series CO2 incubators. Factory or Field installed.	✓	✓	✓	✓
STER302	Hydrogen Peroxide, single 33 ml container of 35% H2O2. For use with STER301 in sterilizing incubators.	✓	✓	✓	✓
STER303	Hydrogen Peroxide, set of five, 33 ml containers of 35% H2O2. For use with STER301 in sterilizing incubators.	✓	✓	✓	✓

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STOCK NO.	DESCRIPTION	25		33	
		7900	7901	7900	7901
WALL301	Wall trim kit for mounting a 25 ft ³ incubator recessed into a wall. Includes double vapor barrier frame seal and bottom coved skirt. Ideal for applications where the front of the incubator is installed in a cleanroom and the back is located outside the cleanroom. Installation (sold separately) does not require the use of fasteners.	✓	✓		
WALL302	Wall trim kit for mounting a 33 ft ³ incubator recessed into a wall. Includes double vapor barrier frame seal and bottom coved skirt. Ideal for applications where the front of the incubator is installed in a cleanroom and the back is located outside the cleanroom. Installation (sold separately) does not require the use of fasteners.			✓	✓
WALL304	Modifies a 7401-25 & 7401-33 incubator (painted, refrigerated) for installation within a wall. Includes split-cover access panel, power switch moved to the rear, and solid front bezel.	✓	✓	✓	✓
WALL306	Modify a 7401-25 & 7401-33 with CLEN304 stainless steel incubator (refrigerated) for installation within a wall. Includes 316 stainless steel split-cover access panel, power switch moved to the rear, and solid front bezel.	✓	✓	✓	✓

✓ standard feature

✓ not designed for unit, but can be installed

✓ if MODSTER305-307 is added