

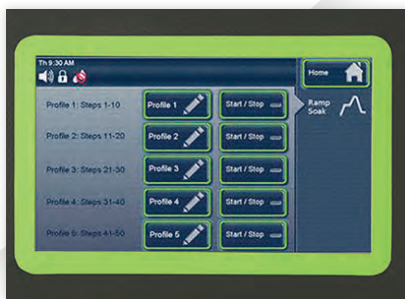


# **FREEZE/THAW CHAMBERS**

**CARON<sup>®</sup>**



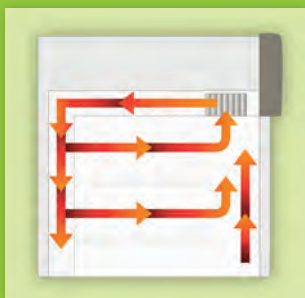
**7900-25, 33 / 7901-25, 33**



## PERFORMANCE IS PRIORITY

Created-for-real world research even when that's a large-scale job.

- Validated performance, even when full, using back to front ducted airflow system.
- Dependable temperature and humidity performance, even at high and low ends of the range.\*
- Condensation-resistant, with tightly sealed chamber and triple-pane glass door.
- Simulate -25°C excursions or freeze/thaw cycles using 50-step ramp & soak programming.
- Full Installation Qualification/Operation Qualification/Process Qualification (IQ/OQ/PQ) documentation and services available.



## DEPENDABLE TECHNOLOGY

Purpose-designed for constant use.

- Durable all stainless steel interior resists corrosion for long unit life.
- Simple yet effective atomizer based controlled humidification eliminates the complexity and replacement costs of steam boilers and ultrasonics, while providing superior RH recovery performance.\*
- Unique 3-minute tool-free interior removal makes units easy to maintain and keep clean.

\* 7900 Humidified Models Only.

## FROZEN TO TROPICAL, & EVERYTHING IN-BETWEEN

High heat incubation to sample freezing, all in one unit.  
Caron's 7900 Freeze/Thaw chambers combine the tight tolerances of an ICH Q1A unit with the low-end temperature of a lab freezer.

Automatically transition from elevated or room temperature setpoints down to frozen conditions; no need to ever move and disturb samples during an experiment.

Caron has created another reference standard in drug, product, & materials testing, with wide-range chambers that offer validatable performance regardless of application or capacity utilization.



## FACILITY FRIENDLY

Lowering cost of ownership for the long-term.

- gROD® Refrigeration On Demand only turns on when needed, reducing heat load and allowing units to run on standard single electrical circuits.
- gVapor® heatless humidification further reduces heat load and energy usage.
- Essential features, such as casters, leveling feet, and access ports are all standard.
- Enormous options list allows you to customize units to meet your exact need.

# SPECIFICATIONS

SPECIFICATIONS				
Model	7900-25-2	7900-25-3	7901-25-2	7901-25-3
Temperature Range	-25°C to 70°C			
Temperature Control	±0.1°C			
Temperature Uniformity	±0.3°C			
Temperature Sensor	3-Wire RTD			
Humidity Range	20 to 95% RH		N/A	
Humidity Control	±2% RH*		N/A	
Humidity Sensor	Capacitive		N/A	
Ramp/Soak	Standard, 5 profiles, 10 steps each, 50 steps total			
Interior Dimensions	32" W x 27" D x 52.7" H (81.3 cm x 68.6 cm x 133.9 cm)			
Interior Construction	Type 304, 2B Finish, Solid Stainless Steel			
Exterior Dimensions	35.5" W x 33.3" D** x 77.1" H (90.2 cm x 84.6 cm x 195.8 cm)			
Exterior Construction	Powder Coated Cold Rolled Steel			
Work Space	25 ft³ (708 liters)			
Shelf Count	4 Standard / 25 Maximum			
Shelf Construction	Type 304, Perforated Stainless Steel, Electropolished			
Shelf Dimensions	29.25" W x 24.45" D (74.3 cm x 62.1 cm)			
Shipping Weight lbs.	785 lbs.	925 lbs.***	880 lbs.	1030 lbs.***
Shipping Weight kgs.	356 kg.	420 kg.***	399 kg.	467 kg.***

SPECIFICATIONS				
Model	7900-33-2	7900-33-3	7901-33-2	7901-33-3
Temperature Range	-25°C to 70°C			
Temperature Control	±0.1°C			
Temperature Uniformity	±0.3°C			
Temperature Sensor	3-Wire RTD			
Humidity Range	20 to 95% RH		N/A	
Humidity Control	±2% RH*		N/A	
Humidity Sensor	Capacitive		N/A	
Ramp/Soak	Standard, 5 profiles, 10 steps each, 50 steps total			
Interior Dimensions	32" W x 27" D x 65.7" H (81.3 cm x 68.6 cm x 166.9 cm)			
Interior Construction	Type 304, 2B Finish, Solid Stainless Steel			
Exterior Dimensions	35.5" W x 33.3" D** x 90.1" H (90.2 cm x 84.6 cm x 228.9 cm)			
Exterior Construction	Powder Coated Cold Rolled Steel			
Work Space	33 ft³ (934 liters)			
Shelf Count	5 Standard / 31 Maximum			
Shelf Construction	Type 304, Perforated Stainless Steel, Electropolished			
Shelf Dimensions	29.25" W x 24.45" D (74.3 cm x 62.1 cm)			
Shipping Weight lbs.	755 lbs.	895 lbs.***	865 lbs.	1015 lbs.***
Shipping Weight kgs.	342 kg.	406 kg.***	392 kg.	460 kg.***

ELECTRICAL				
Model	7900-25-2 7900-33-2	7900-25-3 7900-33-3	7901-25-2 7901-33-2	7901-25-3 7901-33-3
Voltage	208/230V	230V	208/230V	230V
Frequency	60 Hz	50 Hz	60 Hz	50 Hz
Current	10.4A	10.4A	10.1A	10.1A

Specifications are based on 20°C ambient & standard voltage. Humidity non-condensing.  
 \* +/-3% when setpoint is above 90%RH. \*\* Add 2.75" for handle. \*\*\*Includes export shipping crate.

## MORE SIZES TO FIT YOUR FACILITY

Caron's 7900 Series reach-ins provide both compact and high capacity options in 25 or 33 ft<sup>3</sup>.



Model  
7900-33  
7901-33

Model  
7900-25  
7901-25

## MORE OPTIONS TO FIT YOUR APPLICATION

Caron offers a wide range of accessories, customizing chambers to fit your facility's exact needs.



**DRYER PACKAGE**



**POWER OUTLETS**

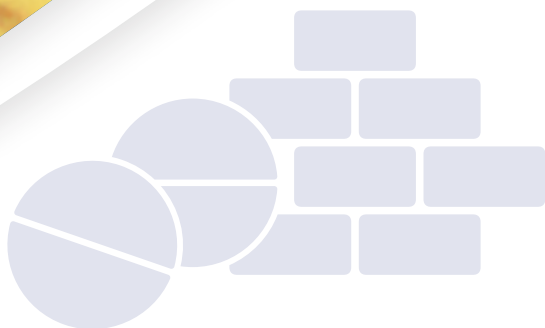


**REINFORCED SHELVING**



**OUTPUT / RECORDERS**

# WIDE RANGE PRECISION



## Intuitive Controls

- Easy to read 7" touchscreen display makes operating parameters highly visible
- Intuitive breadcrumb navigation tames even complex ramp/soak protocols
- Alert and alarm messages for upcoming maintenance or immediate notifications



## Humidity Options\*

- Optional condensate recirculator for easy unit install, even for facilities without purified water supply or nearby floor drain
- Multiple water feed and drain options
- Efficient gVapor® humidification saves water, compared to conventional boiler systems



## Space Efficient Designs

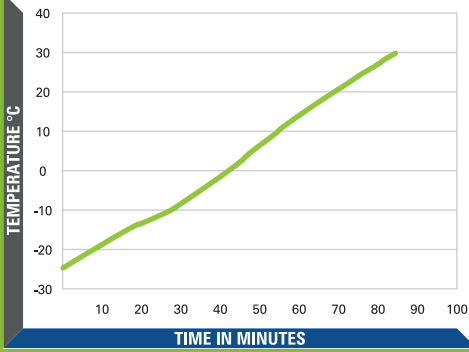
- Match units to your capacity needs and available space
- Choice of roll-in (25 ft<sup>3</sup>) or maximum capacity (33 ft<sup>3</sup>) designs
- Large single-door (33 ft<sup>3</sup> models) provides best-in-class ratio of interior capacity to floor space (4 ft<sup>3</sup>/sq.ft. / 1.22 cu.m/sqm)

*\* 7900 Humidified Models Only.*

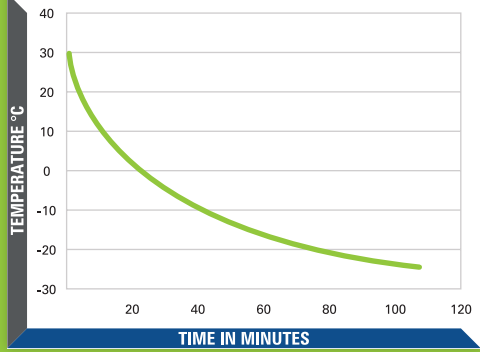
# ACCESSORIES

Factory Installation	
Part No.	Description
COAT313	Electrostatically Coated Evaporator Coil
DLOG301	Data Logging and Storage to USB Flash Drive
DRYR110	Noise Suppression Kit for Heatless Dryer (DRYR301 Required)
DRYR301	Heatless Dryer Package / Allows Humidity Operation at 2%RH (7900 Models)
LGHT321	Light Package with (6) 24 W Fluorescent Lights / 2 Lights Per Bank 3 Banks / Day/Night Timer (25 ft <sup>3</sup> Models)
LGHT322	Light Package with (8) 24 W Fluorescent Lights / 2 Lights Per Bank 4 Banks / Day/Night Timer (33 ft <sup>3</sup> Models)
LGHT324	Interior LED Lighting with Day/Night Timer
OUTL331	One Internal Outlet / 115V 60Hz / NEMA 5-15 (-2 Models)
OUTL332	One Internal Outlet / 230V 50Hz / CEE 7/16 (-3 Models)
OUTL333	One Internal Outlet / 230V 50Hz / BS1363A (-3 Models)
OUTL334	One Internal Outlet / 230V 50Hz / AS/NZS 3112 (-3 Models)
OUTL335	One Internal Outlet / 230V 60Hz / NBR 14136 (-2 Models)
OUTL336	Three Internal Outlets / 115V 60Hz / NEMA 5-15 (-2 Models)
OUTL337	Three Internal Outlets / 230V 50Hz / CEE 7/16 (-3 Models)
OUTL338	Three Internal Outlets / 230V 50Hz / BS1363A (-3 Models)
OUTL339	Three Internal Outlets / 230V 50Hz / AS/NZS 3112 (-3 Models)
OUTL340	Three Internal Outlets / 230V 60Hz / NBR 14136 (-2 Models)
PORT301	Additional 2" Access Port
PORT305	Fresh Air Ports
SHLF311	Wire Rod Shelf Kit (4) / Replaces Standard Shelving (25 ft <sup>3</sup> Models)
SHLF312	Solid Shelf Kit (4) / Replaces Standard Shelving (25 ft <sup>3</sup> Models)
SHLF313	Heavy-Duty Perforated Shelf Kit (4) / Replaces Standard Shelving (25 ft <sup>3</sup> Models)
SHLF316	Wire Rod Shelf Kit (5) / Replaces Standard Shelving (33 ft <sup>3</sup> Models)
SHLF317	Solid Shelf Kit (5) / Replaces Standard Shelving (33 ft <sup>3</sup> Models)
SHLF318	Heavy-Duty Perforated Shelf Kit (5) / Replaces Standard Shelving (33 ft <sup>3</sup> Models)

### TEMPERATURE RAMP-UP SPEED



### TEMPERATURE RAMP-DOWN SPEED



### Accessories / On-Site Installation

Part No.	Description
ALRM302	Remote Alarm Contacts / Provides NO/NC Dry Contacts
BOTL301	Carboy Water Fill Bottle and Cap / 9.5 Includes Tubing and Fittings (7900 Models)
DOOR310	Light Tight Door Cover for 708 L / Factory Installed at time of Order or Retrofitted in the Field by a Qualified Technician (25 ft <sup>3</sup> Models)
DOOR312	Light Tight Door Cover for 934 L / Factory Installed at time of Order or Retrofitted in the Field by a Qualified Technician (33 ft <sup>3</sup> Models)
LTCH301	One-Handed Door Latch
LTCH302	One-Handed Door Latch with Integral Key Lock
OUTP301	Universal Analog Output (0-5V, 4-20aA) / One Connection for Monitoring Temperature (7901 Models)
OUTP302	Universal Analog Output (0-5V, 4-20mA) / Two Connections for Monitoring Temperature and Humidity (7900 Models)
PUMP301	Drain Water Pump
RCDR318	Built-in temp recorder. Thermal Printer, 10", 7 day, 24 hr. (7901 Models)
RCDR319	Built-in temp/humidity recorder. Thermal Printer, 10", 7 day, 24 hr. (7900 Models)
RCDR322	Side-mounted temp recorder. Thermal Printer, 12", 7 day, 24 hr. (7901 Models)
RCDR323	Side-mounted temp/humidity recorder. Thermal Printer, 12", 7 day, 24 hr. (7900 Models)

### Accessories / Customer Installation

Part No.	Description
CRSY102	Condensate Recirculating System (7901 Models)
CRSYKIT	Tubing and Fitting Kit to Connect CRSY102 to 2 Chambers
SHLF300	Additional Perforated Shelf Kit / 2 Shelf Tracks
SHLF301	Additional Wire Rod Shelf Kit / 2 Shelf Tracks
SHLF302	Additional Solid Shelf Kit / 2 Shelf Tracks
SHLF303	Additional Heavy-Duty Perforated Shelf Kit (Requires SHLF313 & SHLF318)

