

# ENVIRONMENTAL CHAMBERS

2-DOOR & 3-DOOR EXTRA LARGE CAPACITY



# PRODUCT LINE OVERVIEW

ENVIRONMENTAL CHAMBERS DESIGNED FOR A WIDE RANGE OF APPLICATIONS

Caron's extra large capacity Environmental Test Chambers precisely control temperature and humidity conditions. These stainless steel two-door (50 cu. ft.) and three-door (75 cu. ft.) models are the ultimate choice for high volume, ultra-reliable stability testing.

The Environmental Test Chambers are designed in accordance with ICH, Q1A Guidelines, making them ideal for pharmaceutical stability drug testing. Other applications include: shelf life studies, stability and package testing, temperature elevation studies and more. Standard temperature conditions range from 5°C to 70°C with optional operation down to 0°C. Controlled humidity conditions range from 20 to 95% and use Caron's new absolute humidity technology to deliver fast open door recovery and quicker response time to setpoint changes. Temperature and humidity uniformity are excellent.

Caron also offers optional factory direct validation services that provide complete mapping and performance certification that satisfy FDA guidelines for qualification verification of equipment.



Model 7000-75



Model 7000-50

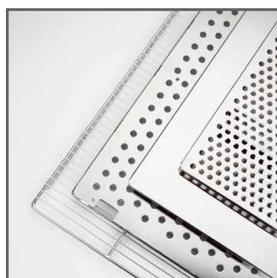
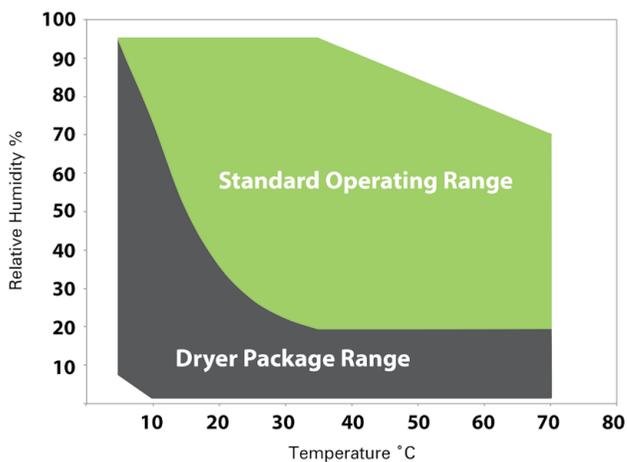
**Model 7000-50** is our 50 cu. ft. double-wide chamber. It comes standard with four casters/leveling feet and is designed to roll through an 82" high doorway without modification, making installation and validation easy and economical. Eight shelves come standard. Although large in capacity, its footprint is ideal for many lab settings.

**Model 7000-75** is our 75 cu. ft. triple-wide chamber. It comes standard with six casters/leveling feet and is also designed for economic installation and validation. 12 shelves come standard. It can roll through an 82" high doorway without modification, making it ideal for full capacity testing needs.

# FEATURES & BENEFITS

## AT A GLANCE STANDARD FEATURES

- The wide temperature range of 5°C to 70°C and humidity range from 20% to 95% offer you the flexibility to simulate a wide range of environmental conditions.
- Caron's gVapor™ delivers controlled humidity vapor on an as-needed basis without wasting energy or producing heat.
- Caron's new absolute humidity control allows for faster open door recovery, quicker response time to setpoint changes and minimizes water use.
- gROD™, Refrigeration on Demand, efficiently manages power consumption and saves electricity by providing refrigeration as needed.
- 7" color touchscreen is intuitive and features easy-to-read icons and a familiar, user-friendly display that can be operated with gloves on. Visualize operating conditions even from across the room.
- The user interface includes a configurable status center with built-in information updates, alerts and alarms to communicate a wide range of status conditions to the user.
- Front access to electrical board and air filter make the chamber easy to maintain.
- In the event of a power failure, non-volatile memory allows the chamber to return to its original setpoint when power is restored.
- Units come standard with magnetically sealed, self-closing solid doors that are 1.5" thick and insulated for optimal chamber performance. Optional glass doors are also available.
- Door locks are standard, protecting your chamber from unauthorized access to the interior.
- These chambers are designed with energy-efficient components, including high R, CFC-free foam insulation, contributing to minimal heat loss.
- 115V units will plug into a standard 20 Amp laboratory electrical outlet, reducing the amount of energy required to operate the chamber.
- Caron's carefully designed horizontal airflow system generates gentle and evenly distributed airflow across all shelf locations. Temperature uniformity and rapid recovery are always maintained, even under heavy loads.
- The perforated, electropolished stainless steel shelves are located on 2" centers. The shelves slide into place and are adjustable, making them easy to clean and effortless to relocate.
- The cabinet interior and exterior is comprised of stainless steel, making it highly resistant to corrosion and easy to maintain.
- Our tool-less removable interior uses unique stainless steel latches for the desired configuration.
- Caron green door handles are aesthetically pleasing and enhance ergonomics.
- Both models contain two access ports (one on each side), making validation easy and providing you with convenient access to connect instrumentation.
- Multiple optional accessories are available, allowing you to modify the chamber to your specific application requirements.



Perforated shelves come standard. Optional solid and wire rod shelving available. All shelves slide and are fully adjustable. See back page for more accessories or visit [www.caronproducts.com](http://www.caronproducts.com) for a full list of options.

# EARTH FRIENDLY TECHNOLOGIES

OUR EXCLUSIVE, INNOVATIVE GREEN FEATURES



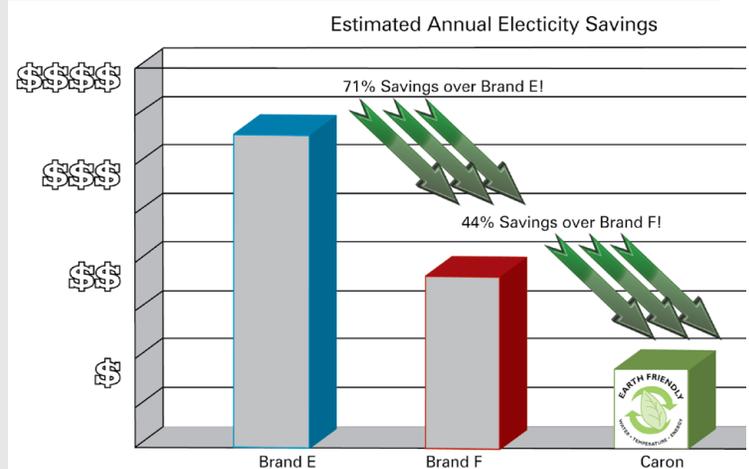
Caron is committed to designing sustainable products, which is vital to achieve a cleaner and energy independent future. Our green technologies are cutting edge, yielding proven cost savings and energy efficiency. Our Environmental Chambers offer multiple unique design features:



- gROD™ is Caron's Refrigeration on Demand controlled refrigeration, and it efficiently manages power consumption and saves electricity. Unlike competitive units that run refrigeration constantly to maintain required setpoints, gROD only operates the refrigeration system when it is needed to maintain the temperature setpoint.
- gVapor™ injects humidity only as needed, using much less energy than other technologies. Unlike competitive units that incorporate energy inefficient steam generators to control and create humidity, gVapor™ atomizes water into humidity vapor in small, controlled amounts and quickly recovers humidity after door openings.

- Absolute humidity control responds quickly to setpoint changes and requires less water use than other humidity control systems.

- Our 115V units run on standard laboratory electrical outlets, reducing the amount of energy required to run the chamber.
- The Environmental Chambers are insulated using high R, CFC-free foam, contributing to high thermal retention and tightly controlling the conditions inside the chamber. Heat loss is significantly eliminated, which places less demand on your laboratory's air conditioning unit.



- Caron's optional earth friendly water recycling/purification system (Model CRSY102) is available to provide a pure water source to your chamber. The CRSY102 will convert tap water into purified water, eliminating the need to purchase more expensive water purification systems or maintain a supply of distilled or deionized water. It connects directly to the chamber and recycles the used water, continuously conditioning it, eliminating the need for a floor drain. One CRSY102 can supply purified



# TECHNOLOGY, PERFORMANCE & DESIGN

DEPENDABLE, RELIABLE AND EASY TO USE



These chambers provide more than consistently reliable, controlled environmental conditions for your testing needs. Our standard design supports all of your daily laboratory requirements by offering high quality performance and innovative, best-in-class features.

Simple, convenient controls: the intuitive control panel has a real-time clock, is easy to reach and simple to use with fewer buttons to navigate. Just touch the 7" full-color screen to put command at your fingertips. Our system controls are "smart," using breadcrumb trail navigation to keep track of your location within the menus.

The built-in, icon-based status center provides vital information updates, including: alerts, alarms and information statuses, allowing for peace of mind, worry-free operation. All alerts, alarms and information status icons will display in the status bar when initiated, with additional information ready-to-read by simply selecting the icon. Our snooze mode is a convenient new function that allows you to be reminded of alarms at a later time. Additionally, the built-in intelligence avoids nuisance alarms and the password protection feature prevents unauthorized access.

**Alerts** warn the operator of an impending problem before it occurs. This gives the user time to react and avoid out-of-spec conditions. Alerts also include messages that provide basic preventative maintenance information, allowing you to service your chamber on a regular basis. By supporting regular service of your Caron chamber, you are enhancing and preserving its reliability.

**Information statuses** include important updates, such as in-process information for automated programs and standard program cycles/modes.

In the event of variant environmental conditions, **Alarms** visually and audibly alert you of setpoint



1. Large, easy to read icons/numbers display operating conditions in each quadrant.
2. Time display, sounds on/off icon and lock screen.
3. Status bar will show any alarms, alerts and info updates on your chamber.
4. Menus are easy to navigate.



Optional accessories, such as glass doors (DOOR308), allow you to easily customize your chamber. See back page for more accessories.

# SPECIFICATIONS & OPTIONAL ACCESSORIES

	7000-50-1	7000-50-2	7000-50-3	7000-75-1	7000-75-2	7000-75-3
Temperature Range	5°C to 70°C					
Temperature Control	±0.2°C					
Temperature Uniformity	±1.0°C					
Temperature Sensor	3-wire RTD					
Humidity Range	20-95% RH					
Humidity Control	±2%*					
Interior Dimensions	51" W x 28.5" D x 59" H (130 cm x 72 cm x 150 cm)			79.5" W x 28.5" D x 59" H (202 cm x 72 cm x 150 cm)		
Interior Construction	Type 304, Stainless Steel					
Exterior Dimensions	57" W x 35.1" D** x 81.5" H (145 cm x 89 cm x 207 cm)			85.5" W x 35.1" D** x 81.5" H (217 cm x 89 cm x 207 cm)		
Exterior Construction	Stainless Steel					
Work Space	50 cu. ft. (1,416 Liters)			75 cu. ft. (2,124 Liters)		
# of Shelves Standard	8			12		
Maximum Shelves	56 (28 shelf height positions)			84 (28 shelf height positions)		
Shelf Construction	Type 304, Perforated Stainless Steel, Electropolished					
Shelf Dimensions	21.6" W x 26.5" D (55 cm x 67 cm)					
Electrical	115V, 60 Hz, 16A	208/230V, 60 Hz, 12A	230V, 50 Hz, 10A	115V, 60 Hz, 16A	208/230V, 60 Hz, 12A	230V, 50 Hz, 10A
Shipping Weight	800 lbs. (363 kg.)		1,100 lbs. (499 kg.)***	1,125 lbs. (510 kg.)		1,650 lbs. (748 kg.)***

Specifications are subject to change without notice. Specifications were established at 20°C ambient with solid doors.

\* ±3% when setpoint is above 90% RH.

\*\*Add 2.75" for handle. Fits through 33.5" standard door opening with door assembly and front panel removed.

\*\*\*Includes export shipping crate.

## DESCRIPTION

	7000-50	7000-75
Remote alarm contacts; provides NO & NC dry contacts for alarms	ALRM302	
Condensate recirculating system	CRSY102	
Defrost package, for operation down to 0°C	DEFR303	
Replace solid doors with glass doors	DOOR308	DOOR309
Heatless dryer package, allows humidity operation as low as 2%RH	DRYR301	
Condensate air filter replacement kit	FLTR303	
Two internal duplex outlets (for -2, 230V units only)	OUTL303-2	OUTL304-2
Additional 1.75" access port	PORT304	
6" door mounted temp. & humidity chart recorder	RCDR317	
10" door mounted temp. & humidity chart recorder, thermal printer	RCDR319	
10" side mounted temp. & humidity chart recorder	RCDR321	
12" side mounted temp. & humidity chart recorder, thermal printer	RCDR323	
Additional perforated shelf	SHLF325	

## Unmatched serviceability.

All of our units come standard with 12 months parts and labor warranty (US & Canada).

Our customer driven approach to technical service allows for continuous product support throughout the lifetime of the equipment.

Caron's optional factory direct and factory developed services include full on-site installation, calibration and validation. Contact the service department for pricing and information.

For a full list of accessories, contact customer service or visit [www.caronproducts.com](http://www.caronproducts.com)

**CARON**  
Opening Doors for Scientists

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