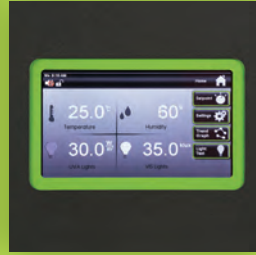# PHOTOSTABILITY CHAMBERS

CARON®

7540-11 / 7545-11

EASY TO USE

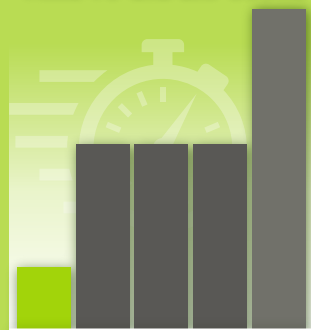**Photostability chambers can seem complex, but they don't have to be.**

- Powerful, yet easy to use, 7" color touchscreen controls.

- Automatic cycle for set-and-forget operation.

- Clear cycle status display, and easy setup for custom exposure protocols.

- Compact benchtop footprint takes up less than 8 square feet of space.

- Service alerts and front and rear-mount slide-out assemblies make maintenance and upkeep easy.

FASTEST RESULTS

**You need test results fast.
Caron's chamber is the fastest.**

- Get full UV and VIS results in as little as 42 hours.

- Automatic cycle eliminates guesswork and overexposure.

- Dedicated ICH Q1B design, unlike competing converted ICH Q1A chambers, drives speedy performance.

TIME TO Q1B EXPOSURE

- Caron at 42 Hrs.
- Other Companies at 120 Hrs.
- Other Companies at 260 Hrs.

FASTEST ICH Q1B OPTION II ON THE MARKET

Fast photoexposure allows you to test more samples, reducing development time and saving money. Caron gets you to the required levels faster than any other chamber on the market.

More than ever before, companies are recognizing the need to assess the impact of UV and visible light on drugs and other FDA-regulated substances.

Caron's next-generation 7540-Series Q1B Photostability Chamber combines the preferred ICH Option II test method with unrivaled time to exposure.

CONSISTENT OUTCOMES

You need the same conditions for all your samples, regardless of where they are in the chamber.

- Only the right hardware can deliver uniform lighting conditions. Densely spaced bulbs, highly reflective specular aluminum panels, and precise light sensors create a work area with tight uniformity, 10-15% VIS nearly edge to edge.

- Precisely meets ICH requirements every time; no overexposure like Xenon-powered Option I units.

- Speed without risk— built-in tight $\pm 2.5°C$ temperature uniformity with lights on prevents thermal effects from skewing test results.

- Simple touchscreen programming, with bold setpoint displays, and easy-to-navigate menus.

SPECIFICATIONS

Caron's Photostability Chambers are available with either light/temperature or light/RH/temp control in 115V 60Hz, 208/230V 60Hz, and 230V 50Hz variants.

GENERAL

Model	7540-1	7540-2/3	7545-1	7545-2/3
Lamp Type / UVA	Fluorescent / Near UV *(Black Lamp)*			
Lamp Type / VIS	Fluorescent / Cool White *(ISO 10977 Compliant)*			
Light Detectors	UVA and Visual / Calibrated			
UVA Intensity, Typical	20 W/m²	2-30 W/m²	20 W/m²	2-30 W/m²
VIS Intensity, Typical	20 klux	2-35 klux*	20 klux	2-35 klux*
Lamps Dimming	*N/A*	YES	*N/A*	YES
Typical Time to Reach ICH of 200 W-hr/m²	10 hrs.	7 hrs.	10 hrs.	7 hrs.
Typical Time to Reach ICH of 1.2 million lux-hr	60 hrs.	35 hrs.	60 hrs.	35 hrs.
Light Uniformity	UVA: ±10% VIS: ±15%	UVA: ±10% VIS: ±10%	UVA: ±10% VIS: ±15%	UVA: ±10% VIS: ±10%
Temperature Range	10°C to 35°C *(Lights On)* **			
Temperature Control	± 0.2°C			
Temperature Uniformity	± 2.5°C *(Lights On)*			
Humidity Range	*N/A*		40-70% RH	
Humidity Control	*N/A*		± 3%	
Shelf Count	Two *(2)* Sliding / 26.0"W x 23.1"D x 8"H Each *(660mm W x 587mm D x 203mm H)*			
Usable Shelf Area / Each	19.0"W x 23.0"FB *(483mm x 584mm)*			
Usable Shelf Area / Total	6.1 ft.² *(0.56m²)* / 76% of Total Shelf			
Maximum Weight	22 lbs. Per Shelf *(10 kg)*			
Interior Surfaces	Reflective Specular Aluminum			
Interior Construction	Stainless Steel			
Internal Volume	11 cu. ft. *(311L)* / Includes Lamp Space			
Exterior Dimensions	37.7"W x 30.8"D x 45.7"H *(958mm W x 782mm D x 1161mm H)*			
Interior Dimensions	26.9"W x 24.0"D x 28.0"H *(683mm W x 610mm D x 711mm H)*			
Access Ports	Two *(2)* / 2"W x 1.8"H Each *(51mm W x 46mm H)*			
Shipping Weight	580 lbs. *(700 lbs. With Export Crate)*			

*Specifications are subject to change without notice. Specifications were established with lights fully 'on' at 25°C, 50% RH and 20°C ambient temperature. RH levels limited by a 5°C minimum dewpoint. 50 Hz units are CE Marked and contain readily available European components. *Listed maximum intensity is typical, lower levels may occur due to bulb variation and age. **When calibrated to the median average temperature.*

MORE OPTIONS TO FIT YOUR APPLICATION

Whether you're conducting forced degradation testing in an early-stage developmental batch, confirmatory testing of drug product in immediate or consumer packaging, or even testing nutraceuticals, health and beauty products or food, Caron has you covered. Caron also offers options that eliminate heat degradation and humidity variables, even for refrigerated storage substances.

Model
7545

Model
7540

MORE OPTIONS TO FIT YOUR LAB

Caron offers a wide range of Photostability Chamber accessories to provide customizations that fit your lab's exact needs.
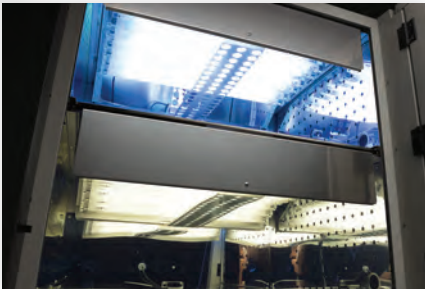
CHART RECORDER

FLOOR CART

RECIRCULATING SYSTEM

FASTEST RESULTS
Q1B

Uniform Light

- Highly reflective specular aluminum panels
- Spectrally-specific shelves reduce bulb spacing, keeping light transmission even across the test area

Highly Validatable

- Built-in access ports
- Individual light sensors
- Easy-to-navigate controls
- Nearly 80% of shelf space is validatable as usable space

Available 5°C Operation

- Required for long-term testing of refrigerated drugs
- Ideal for vaccines and biologicals
- Designed into the unit, minimizing condensation and power use

Easy to Service

- Front and back assemblies are easily accessible
- Components slide out on trays
- Reduces time to perform regular maintenance and service
- Eliminates wasted floor space from service access requirements
- Tool-less lamp changing

SPECIFICATIONS

ELECTRICAL						
Model	7540-1	7545-1	7540-2	7545-2	7540-3	7545-3
Voltage	115V		208-320V		230V	
Frequency	60Hz		60Hz		50Hz	
Current	10.2A	11.2A	6.6A	7.1A	6.6A	7.1A

ACCESSORIES

ON-SITE INSTALLATION	
Part No.	**Description**
BOTL302	Carboy water bottle with cap / 1 Gallon *(4L)* / For Models 7545-11
CART102	Heavy-duty aluminum base, 48" x 30" x 24" / Includes locking casters and undershelf for additional storage
CRSY102	Universal Condensate Recirculating System / In-line DI cartridge, carbon block filter, anti-bacterial stick, 7 gallon water tank, low water alarm, and recirculation pump / For Models 7545-11
RCDR203	3 input, 12" microprocessor based circular chart recorder / For Models 7540-11-1, 7540-11-2 & 7540-11-3
RCDR204	4 input, 12" microprocessor based circular chart recorder / For Models 7545-11-1, 7545-11-2 & 7545-11-3

FACTORY INSTALLATION	
Part No.	**Description**
ALRM302	Remote alarm contacts provides NO and NC dry contacts
DLOG301	Data Logging to USB Port
EXTD304	Extended temperature down to +5°C *(With Lights On)* **
OUTP305	Universal analog output *(0-5V, 4-20mA)* / Provides 3 connections for monitoring temp, UVA and VIS / For Models 7540-11
OUTP306	Universal analog output *(0-5V, 4-20mA)* / Provides 4 connections for monitoring temp, RH, UVA, and VIS lights / For Models 7545-11

*Specifications are subject to change without notice. Specifications were established with full lights on at 20°C with 50% RH ambient conditions. RH levels limited by a 5°C minimum dewpoint. 50Hz units are CE marked and contain readily available European components.**As measured where air enters chamber.*