

PHOTOSTABILITY CHAMBERS

TECHNICAL SPECIFICATIONS

MODEL: 7540 | 7545

LIGHT PERFORMANCE	7540	7545
Lamp Type, UVA	Fluorescent, near UV (black lamp)	
Lamp Type, VIS	Fluorescent, cool white (ISO 10977 compliant)	
Light Detectors	UVA and Visual, calibrated	
UVA Light Intensity, Typical	20 W/m ²	2-30 W/m ²
VIS Light Intensity, Typical	20 klux	2-35 klux
Lamps Dimming	n/a	Yes
Light Uniformity	UVA: ±10% VIS: ±15%	UVA: ±10% VIS: ±10%

EXPOSURE TIMING		
Time to ICH Exposure (200 W-hr/m ²)	10 hrs.	7 hrs.
Time to ICH Exposure (1.2 million lux-hr)	60 hrs.	35 hrs.

ENVIRONMENTAL CONTROL		
Temperature Range	10°C to 35°C (lights on)*	
Temperature Control	± 0.2°C	
Temperature Uniformity	± 2.5°C (lights on)	
Humidity Range	40-70% RH	40-70% RH
Humidity Control	± 3%	± 3%

CHAMBER CONSTRUCTION	
# of Shelves, Size	Two (2) Sliding, 26.0" W x 23.1" D x 8" H (660mm W x 587mm D x 203mm H) each
Usable Shelf Area, Each	19.0" x 23.0" (483mm x 584mm)
Usable Shelf Area, Total	6.1 ft ² (0.56m ²) - 76% of total shelf
Maximum Weight per Shelf	22 lbs. (10 kg)
Interior Surfaces	Reflective Specular Aluminum
Interior Construction	Type 304, 2b Finish Stainless Steel
Internal Volume	11 cu. ft. (311L), includes lamp space

DIMENSIONS	
Exterior Dimensions	37.7" W x 30.8" D x 45.7" H (958mm W x 782 mm D x 1161 mm H)
Interior Dimensions	26.9" W x 24.0" D x 28.0" H (683mm W x 610mm D x 711mm H)
# of Access Ports	Two (2), 1.8" DIA (diameter) (51mm W x 46mm H) each

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.* When calibrated to the median average temperature. All units are shipped in crates.

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POWER SPECIFICATIONS	7540 7545		
	-1	-2	-3
Electrical	115V, 60Hz, 16A	208/230V, 60 Hz, 10A	230V, 50 Hz, 10A

WEIGHT SPECIFICATIONS	7540	7545
Shipping Weight lbs	760 lbs	800 lbs
Shipping Weight kg	345 kg	363 kg

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ACCESSORIES

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STOCK NO.	DESCRIPTION	7540	7545
ALRM302	Remote Alarm Contacts for 7000 Series Chambers. Provides NO and NC dry contacts for alarms.	✓	✓
BOTL302	Side Mounted Carboy for Wally CO2 Incubators and 7540-7545 Series Photostability Chambers. Carboy water fill bottle with cap, 1 gallon (4 Liters). Includes tubing and fittings.		✓
CART102	Heavy-duty Laboratory Equipment Cart, 48"x30"x24". Reinforced, solid 12 ga. removable aluminum top. Undershelf provides convenient storage space. Supplied with 5" stem-type casters and can accommodate up to 800 lbs.	✓	✓
CRSY102-1	Universal Condensate Recirculating System; 115V, 60Hz		✓
CRSY102-4	Universal Condensate Recirculating System; 230V, 50/60Hz		✓
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.	✓	✓
EXTD304	Extended temperature range down to +5C (lights on) for R290 7540/7545 chambers. 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.		✓
OUTP305	Universal analog output (0-5V, 4-20mA) for use with Caron 7540 series chambers. Provides three connections for monitoring temperature, UVA, and VIS.	✓	
OUTP306	Universal analog output (0-5V, 4-20mA) for use with Caron 7545 series chambers. Provides four connections for monitoring temperature, humidity, UVA and VIS.		✓