



# INSECT REARING CHAMBERS

CARON®



7340-25 / 7340-33

## BETTER RESULTS & A LOT LESS EFFORT

Near-ideal conditions, from chambers purpose-built for a challenging and often messy application. Caron's new 7340 Series Insect Rearing Chambers give you the results you need, without all the usual hassle.



Live insects are used in many research areas, from genomics to clinical epidemiology and species conservation.

While one could use a basic "box" for this important work, insect rearing's unique challenges can cause poor performance, expensive maintenance, and short unit life.

Caron's new Insect Rearing Chambers are easier to clean and maintain, with available unit sterilization and LED light options in a system that performs better and longer than competing units.

## CLEAN CHAMBER DESIGN

**Because you want to study insects, not waste time cleaning up after them.**

- Snap-out interior removable within 3 minutes for quick and easy cleaning.
- Available hydrogen peroxide sterilization system totally eliminates parasites, mold, fungus, and bacteria in only 2 hours. Dry "no touch" cycle is easy to run, with no cleanup.
- Integral chamber drain makes flushing out dead insects and spilled media easy and straightforward.



## IDEAL FOR INSECTS

**Hardened design with application-specific options.**

- Stainless steel chamber resists corrosion better than painted steel/aluminum.
- Electrostatic, powder-coated refrigeration components more reliably durable than conventional “dipped” phenolic-coated units.
- Easy-clean interior; all components removable without tools.
- Choice of standard cool-white LED lights, or optional narrow-spectrum flying insect elements.
- Available controlled humidification provides ideal rearing conditions without the contamination risk of a water pan.



## FACILITY-FRIENDLY

**Built to work on your site, whether or not your site was built for chambers.**

- Roll-in usability; 25 cu.ft. unit slides through standard-height doorways.
- 33 cu.ft. units designed to maximize capacity in purpose-built rooms.
- Intuitive touchscreen controls are powerful, yet require minimal training to use.
- Heavy on performance, but light on energy usage, gROD Refrigeration On Demand only turns on when needed.

## MORE SIZES TO FIT YOUR LAB

Caron's 7340 Series reach-ins provide both compact and high capacity options in 25 or 33 ft<sup>3</sup>

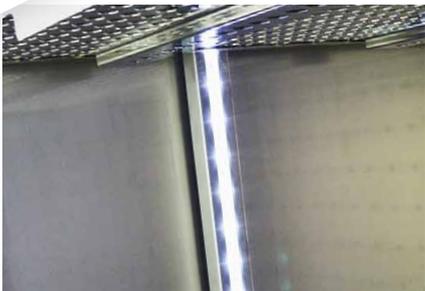


## MORE OPTIONS TO FIT YOUR APPLICATION

Choose between LED lighting options, or add H<sub>2</sub>O<sub>2</sub> chamber sterilization for elimination of mites and fungus. Add in a humidity control system, or digital or analog outputs for remote monitoring.



# IDEAL FOR INSECTS



## Cool White LED lighting

- Available full-spectrum white lighting
- 98 Lumen/Watt efficiency – less chamber heat than fluorescent
- Sealed light modules removable without tools for service/cleaning



## “No Blue” Colored LED’s

- Optional, narrow 500-700nm spectral range
- Prevents lethal short-wavelength (400-500nm) blue light effects found for fly adults and pupae



## Easy Parameter Programming

- Big bright 7" color display
- Intuitive touchscreen interface with breadcrumb navigation
- Diurnal programming included on all optional light packages



## Reduced Cost of Ownership

- LED lighting consumes less than half the power of fluorescent lighting
- gROD Refrigeration On Demand only turns on when needed
- Units plug into a single standard wall outlet
- Long-life 50,000 hour LED elements

# SPECIFICATIONS

Caron's 7340 Series Insect Rearing Chambers are available in 115V 60Hz, 208/230V 60Hz, and 230V 50Hz variants.

SPECIFICATIONS		
Model	7340-25	7340-33
Temperature Range	10°C to 40°C	
Temperature Control	±0.1°C	
Temperature Uniformity	±0.3°C	
Temperature Sensor	3-wire RTD	
Interior Dimensions	32" W x 27" D x 52.7" H <i>(81.3 cm x 68.6 cm x 133.9 cm)</i>	32" W x 27" D x 65.7" H <i>(81.3 cm x 68.6 cm x 166.9 cm)</i>
Exterior Dimensions	35.5" W x 33.3" D* x 77.1" H <i>(90.2 cm x 84.6 cm x 195.8 cm)</i>	35.5" W x 33.3" D* x 90.1" H <i>(90.2 cm x 84.6 cm x 228.9 cm)</i>
Interior Construction	2B Finish Solid Stainless Steel <i>(Type 304)</i>	
Exterior Construction	Powder Coated Cold Rolled Steel	
Work Space	25 ft <sup>3</sup> <i>(708 liters)</i>	33 ft <sup>3</sup> <i>(934 liters)</i>
Shelf Count	4 Standard / 25 Maximum	5 Standard / 31 Maximum
Shelf Construction	Perforated Stainless Steel <i>(Type 304)</i>	
Shelf Dimensions	29.25" W x 24.45" D <i>(74.3 cm x 62.1 cm)</i>	
Shipping Weight lbs.	725 lbs. <i>(825 lbs.**)</i>	775 lbs. <i>(1,050 lbs.**)</i>
Shipping Weight kg.	329 kg. <i>(374 kg.**)</i>	352 kg. <i>(476 kg.**)</i>

Specifications are based on 20°C ambient and standard voltage. Specifications are subject to change without notice.  
\*Add 2.75" for handle. \*\*7340-25-3 and 7340-33-3; Includes Export Shipping Crate.\*\*\*Optional feature.

ELECTRICAL			
Model	7340-25-1 7340-33-1	7340-25-2 7340-33-2	7340-25-3 7340-33-3
Volts	115V	208 / 230V	230V
Hertz	60Hz	60Hz	50Hz
Amps	16A	10A	8A

## ACCESSORIES

### ACCESSORIES / Factory Installation

Part No.	Description
DLOG 301	Data Logging to USB Port
HUMD 311	gVapor Controlled Humidity / Ambient to 95 RH / Includes Display
LGHT324	LED Lightpackage / Day/Night Cycle / Wide Range (White)
LGHT340	LED Lightpackage / Day/Night Cycle / Narrow Range (500-700nm)
PORT304	Additional 2" Access Port
PORT305	Fresh Air Ports / 25 & 33 Chambers
RAMP 301	Ramp & Soak Controls / Programmable **
STER305	H <sub>2</sub> O <sub>2</sub> Sterilization Prep / Required for use with STER301 (not incl.)

### ACCESSORIES / Customer Installation

Part No.	Description
SHLF302	1 Solid Shelf and Shelf Tracks for 25 & 33 ft <sup>2</sup> Units
STER301	H <sub>2</sub> O <sub>2</sub> Sterilization Module / Requires STER 305 or STER 306 Prep
STER302	H <sub>2</sub> O <sub>2</sub> Single-Use Canister
STER303	H <sub>2</sub> O <sub>2</sub> Single-Use Canisters / 5-Pack

### ACCESSORIES / On-Site Installation\*

Part No.	Description
ALRM302	Remote Alarm Contacts / Provides NO/NC Dry Contacts
DOOR310	Light Tight Door Cover / 25 ft <sup>2</sup> Units
DOOR312	Light Tight Door Cover / 33 ft <sup>2</sup> Units
LGHT602	UV Germicidal Lamp for Incoming Water Line (Requires HUMD311)
LTCH301	One-Handed Outer Door Latch
LTCH302	One-Handed Outer Door Latch with Integral Key Lock
OUTP301	Univeral Analog Output (0-5V, 4-20mA) / Provides 1 Connection for Monitoring Temperature
OUTP302	Univeral Analog Output (0-5V, 4-20mA) / Provides 2 Connections for Monitoring Temperature and Humidity (Requires HUMD311)

\*On-Site Installations are performed by a trained technician. \*\*Limited dehumidification capacity with this model may affect ramp down RH speed.

## ACCESSORIES / *On-Site Installation\**

Part No.	Description
RCDR316	6" Chart Recorder Temperature Only
RCDR317	6" Chart Recorder Temp/Humid ( <i>Must Have HUMD311 Option</i> )
RCDR318	10" Chart Recorder Temperature Only
RCDR319	10" Chart Recorder Temp/Humid ( <i>Must Have HUMD311 Option</i> )
STER 306	H <sub>2</sub> O <sub>2</sub> Sterilization Prep / Required for use with STER 301 ( <i>not incl.</i> )

*\*On-Site Installations are performed by a trained technician.*



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