
Luzchem Photoreactor Model LZC-ORG

Luzchem's LZC-ORG photoreactor package is designed for organic photochemistry applications. It is configured for side irradiation, and includes a recessed magnetic stirrer, safe exhaust system and a digital timer. The package also includes a portable carousel, a set of each UVA and UVC lamps, 8 quartz sample tubes and 8 pyrex tubes.



Configuration:



The LZC-ORG photoreactor is equipped with 10 lamps (5 on each side).

Unit Specifications:

Dimensions:	<i>External:</i> 18" wide, 21" deep (with exhaust) and 16.5" high (46 x 53 x 42 cm) <i>Internal:</i> 12" wide, 12" deep and 8.5" high (30 x 30 x 22 cm)
Weight:	24 lbs. / 11 kg
Power Rating:	110 VAC/220VAC, 50/60 Hz cycle, 3 Amps Ships with North American-style power cable
Housing Material:	<i>External:</i> Stainless Steel <i>Internal (chamber):</i> Al 5052-H32 (aluminum alloy)
Ambient Temperature:	Must be between 10 °C and 35 °C
Chamber Temperature:	Maintained to 3-4 °C above room temperature
Humidity:	Must be between 0% and 95% (non-condensing)

Luzchem Research, Inc.

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Lamps: The LZC-ORG photoreactor package includes complete sets of UVC and UVA lamps (10 of each). See separate sheet for lamp specifications.

Options Included:

Option	Specifications
Digital Countdown Timer	<ul style="list-style-type: none">• Factory preset• Allows unattended exposure times from 1 min to 99 hrs, 99 min
Portable Carousel	<ul style="list-style-type: none">• Designed to accommodate samples in test tubes of up to 16 mm in diameter.• Diameter: 5"• Bottom plate height: approx. 2.5" above chamber floor• Can hold 16 tubes• Speed: 4 RPM
Magnetic Stirrer	<ul style="list-style-type: none">• Speed: adjustable• Min speed: 100 RPM• Max speed: 1000 RPM• Max volume that can be stirred: 0.26 gallons (1L)• Magnet not included
Q-tubes (set of 8)	<ul style="list-style-type: none">• Material: quartz• Capacity: approx. 10 ml• Dimensions: 12 mm ID, 14 mm OD• For wavelengths over 210 nm, transmittance > 85%
P-tubes (set of 8)	<ul style="list-style-type: none">• Material: pyrex• Capacity: approx. 10 ml• Dimensions: 12.4 mm ID, 15.5 mm OD• Opening: 7.4 mm diameter• For wavelengths over 345 nm, transmittance > 90%
Gas Inlet	<ul style="list-style-type: none">• Rear mounted bulkhead gas connector• Only recommended for non-flammable, non-toxic gases• Gas should not dissipate in the chamber, should be used with environmental chamber only.
Hour Meter	<ul style="list-style-type: none">• Built-in to the unit• Keeps track of the number of hours the unit has been in operation
Safe Exhaust	<ul style="list-style-type: none">• Material: galvanized aluminum• Exhaust tube provided: 4" diameter, max length: ~ 8'• Built-in fan: 3100 RPM, Airflow: 110 CFM
Safety Interlock	<ul style="list-style-type: none">• Turns off lamps when door is open• Indicator LED's signal if the door is open and if power is running to the lamps
UV Protecting Goggles	<ul style="list-style-type: none">• Yellow safety goggles, with 400 nm cut-off

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