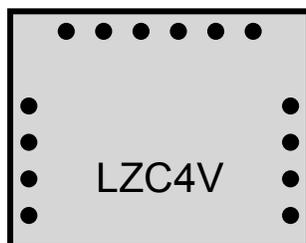

Luzchem Photoreactor Model LZC-4V

Luzchem's LZC-4V photoreactor package is designed for organic photochemistry and photobiology applications. Two complete sets of UVA (350 nm) and UVC (254 nm) lamps are provided with the photoreactor unit, as well as a safe exhaust system, one pair of safety goggles, an installed drive motor, a carousel for liquid samples, a turntable for solid samples, a recessed magnetic stirrer and a power meter.



Configuration:



The LZC-4V photoreactor is equipped with 6 top lamps, and 8 side lamps.

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Phone: (613) 749-2442
Fax: (613) 749-2393
E-mail: sales@luzchem.com

Luzchem Research, Inc.

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Ottawa, Ontario
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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:	32 lbs. / 15 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)

Lamps: The LZC-4V photoreactor package includes two complete sets of UVC and UVA lamps (14 of each). See separate sheet for lamp specifications.

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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
Built-in drive	<ul style="list-style-type: none">• Can support the Luzchem carousel and turntable• Speed: adjustable• Max speed: 7 RPM
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: 1 in. above chamber floor• Can hold 16 tubes
Turntable	<ul style="list-style-type: none">• Diameter: 9 3/16"• Height: 1 in. above chamber floor
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
Power meter	<ul style="list-style-type: none">• Calibration factor for visible light provided by manufacturer• Calibration factor for Luzchem LZC-UVA lamps provided by Luzchem• Requires 9 V transistor type battery (one provided)• Display: 3.5" LCD• Sampling time: 0.4 sec• Operating temperature: 0 - 50 °C at a maximum of 80% relative humidity
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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