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## Luzchem Photoreactor Model LZC-ICH2

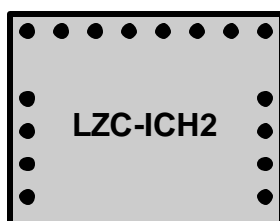
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Luzchem's LZC-ICH2 photoreactor model is certified for ICH compliance under option 2. The package includes complete sets of UVA and visible lamps, power meter, turntable and carousel (to equalize exposure), digital timer, temperature control, recessed magnetic stirrer for stress tests, bulkhead connector for gasses, safety goggles and a safe exhaust system.



### Configuration:



The LZC-ICH2 photoreactor is equipped with 8 top lamps, and 8 side lamps.

### Unit Specifications:

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<b>Dimensions:</b>	<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)
<b>Weight:</b>	36 lbs. / 16 kg
<b>Power Rating:</b>	110 VAC, 50/60 Hz cycle, 4 Amps
<b>Housing Material:</b>	<i>External:</i> Stainless Steel <i>Internal (chamber):</i> Al 5052-H32 (aluminum alloy)
<b>Ambient Temperature:</b>	Must be between 10 °C and 35 °C
<b>Chamber Temperature:</b>	Maintained to 3-4 °C above room temperature
<b>Humidity:</b>	Must be between 0% and 95% (non-condensing)

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**Lamps:** The LZC-ICH2 photoreactor package includes complete sets of UVA and visible lamps (16 of each). See separate sheet for lamp specifications.

## Options Included:

Option	Specifications
Safe exhaust	<ul style="list-style-type: none"><li>• Material: galvanized aluminum</li><li>• Exhaust tube provided: 4" diameter, max length: ~ 8'</li><li>• Built-in fan: auto. control (max speed: 3100 RPM, airflow: 110 CFM)</li></ul>
UV protecting goggles	<ul style="list-style-type: none"><li>• Yellow safety goggles, with 400 nm cut-off</li></ul>
Built-in drive	<ul style="list-style-type: none"><li>• Can support the Luzchem carousel and turntable</li><li>• Speed: adjustable</li><li>• Max speed: 7 RPM</li></ul>
Carousel	<ul style="list-style-type: none"><li>• Can hold test tubes of up to 16 mm in diameter.</li><li>• Diameter: 5"</li><li>• Bottom plate height: 1 in. above chamber floor</li><li>• Can hold 16 tubes</li></ul>
Turntable	<ul style="list-style-type: none"><li>• Diameter: 9 3/16 mm</li><li>• Height: 1 in. above chamber floor</li></ul>
Magnetic stirrer	<ul style="list-style-type: none"><li>• Speed: adjustable</li><li>• Min speed: 100 RPM</li><li>• Max speed: 1000 RPM</li><li>• Max volume that can be stirred: 0.26 gallons (1L)</li><li>• Magnet not included</li></ul>
Digital countdown timer	<ul style="list-style-type: none"><li>• Factory preset</li><li>• Allows unattended exposure times from 1 min to 99 hrs, 99 min</li></ul>
Power meter	<ul style="list-style-type: none"><li>• Calibration factor for visible light provided by manufacturer</li><li>• Calibration factor for Luzchem LZC-UVA lamps provided by Luzchem</li><li>• Requires 9 V transistor type battery (one provided)</li><li>• Display: 3.5" LCD</li><li>• Sampling time: 0.4 sec</li><li>• Operating temperature: 0 - 50 °C at a maximum of 80% relative humidity</li></ul>
Temperature control	<ul style="list-style-type: none"><li>• Sensor type: RTD</li><li>• Operating temperature(ambient): -10 to 50 °C</li><li>• Display: LCD</li><li>• Min. set temperature: 3 °C above room temperature</li><li>• Max. set temperature: 60 °C</li></ul>
Gas inlet	<ul style="list-style-type: none"><li>• Rear mounted bulkhead gas connector</li><li>• Only recommended for non-flammable, non-toxic gases</li><li>• Gas should not dissipate in the chamber, should be used with environmental chamber only.</li></ul>
Hour Meter	<ul style="list-style-type: none"><li>• Built-in to the unit</li><li>• Keeps track of the number of hours the unit has been in operation</li></ul>

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