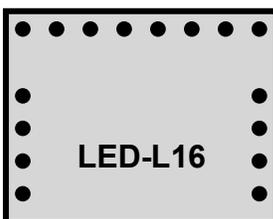


Luzchem Photoreactor Model LED-L16

Luzchem's LED-L16 photoreactor model is the first of its kind LED photoreactor. The package includes complete sets of green and blue LED 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 LED-L16 photoreactor is equipped with 8 top lamps, and 8 side lamps.

Shown here with LED-BL blue lamps installed.



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:	36 lbs. / 16 kg
Power Rating:	110/220 VAC, 50/60 Hz cycle, 3 Amps
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 LED-L16 photoreactor package includes complete sets of green and blue LED lamps (16 of each). See separate sheet for lamp specifications. Last page includes normalized lamp spectral data.

Luzchem Research, Inc.

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Options Included:

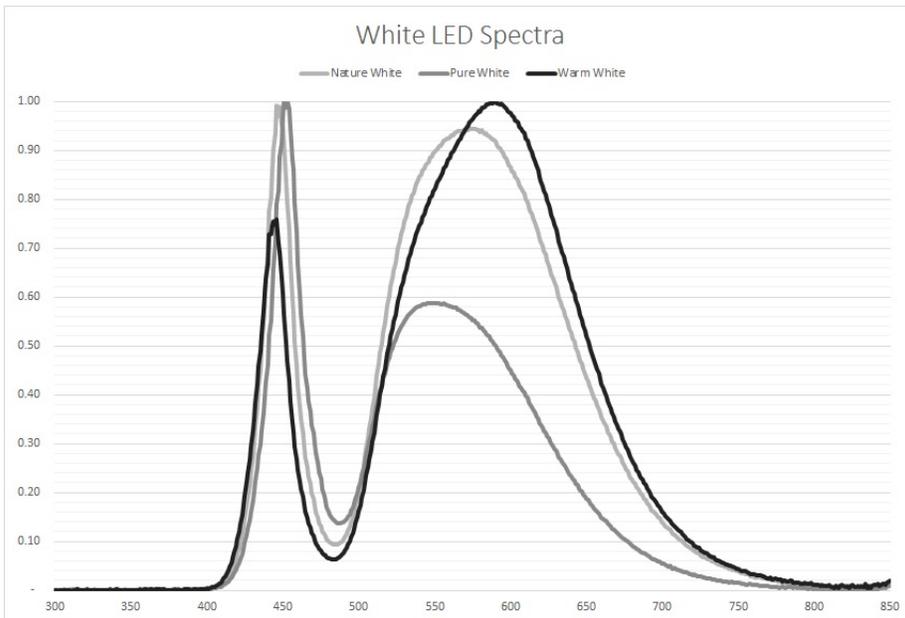
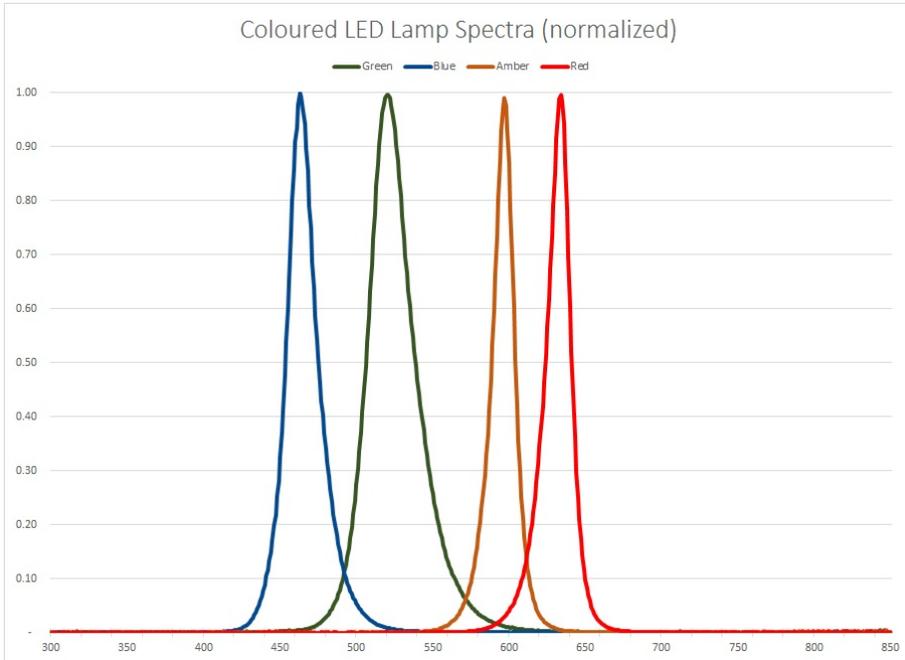
Option	Specifications
Digital Countdown Timer	<ul style="list-style-type: none">• Factory preset• Allows unattended exposure times from 1 min to 99 hrs, 99 min
Built-in Drive	<ul style="list-style-type: none">• Can support the Luzchem carousel and turntable• Speed: adjustable• Max speed: 7 RPM
Carousel	<ul style="list-style-type: none">• Can hold 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 mm• 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 for broadband visible light provided by manufacturer• Calibration factor for narrow blue and green LED 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 80% relative humidity
Temperature Control	<ul style="list-style-type: none">• Sensor type: RTD• Operating temperature(ambient): 10 to 50 °C• Display: LCD• Min. set temperature: 3 °C above room temperature• Max. set temperature: 50 °C
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
UV Protecting Goggles	<ul style="list-style-type: none">• Yellow safety goggles, with 400 nm cut-off

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