

# PHOTOCHEMISTRY SYSTEMS



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**HepatoChem**



## Screen easily with standardized format

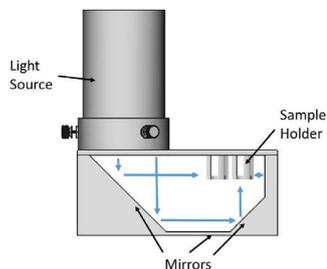
The EvoluChem PhotoRedOx Box™ is the photoreactor choice for chemists who seek to standardize laboratory photochemical setups economically. A flexible design allows interchangeable LEDs from 365 to 808 nm and a wide variety of vials.



Our original photoreactor's patented design is compatible with most vial formats (0.3 ml, 2 ml, 4 ml, 8 ml and 20 ml vials) and its compact design allows for use with any stirring plate. A built-in fan keeps the reaction conditions at room temperature.

### Features

- Interchangeable LED from 365 nm to 808 nm
- Chamber designed to evenly distribute light
- Magnetic stirring on standard stirring plate
- Flexible vial formats
- Cooling by fan to maintain experiment at room temperature
- Flow reactor available



### Benefits

- Easy setup on a standard stirring plate
- Perform up to 32 reaction conditions simultaneously
- Individually sealed vials enable
- Flexible study design



US Patent #10,906,022

Specifications	HCK1006-01-016
Vial size	0.3 ml to 20 ml
Samples/reaction	32 max
Flow	2 ml Flow Cell available
Suggested light source	1x - EvoluChem™ LEDs PF
Compatible LEDs	Compatible with most PAR20 (2.5 in diameter style LED) sources
Wavelengths available	multiple options from 365nm to 808 nm
Light intensity	based on the attached LED source
Dimmable	based on the attached LED source
Temperature Control	Built in fans hold internal reactor temp. ~30 °C depending on light source
Chiller fittings	N.A.
Suggested chiller	N.A.
Stirring	external stir plate required
Dimension	6.5" X 6.5" X 4.0"
Power requirements	110V AC/ 12V DC (US) or 220V AC/12V DC (EU/UK)
Operating requirements	external stir plate, light source, chemical fume hood (if applicable), protective eyewear, safety shield

**Related accessories**  
Lights  
Holders  
Flow Cell  
Safety Accessories

# EvoluChem™ PhotoRedOx Box Duo™

By HepatoChem

## Screen with double the workflow

Meet our photoreactor with double-capacity: The EvoluChem PhotoRedOx Duo™. It's the choice for the chemist who seeks higher reaction capacity and increased light intensity than found in the PhotoRedOx Box™.



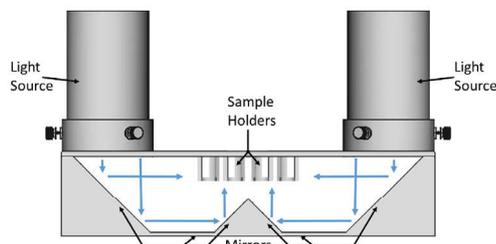
This photoreactor with double-capacity leverages the same patented concept (US Patent #10,906,022) as the original PhotoRedOx Box™. PhotoRedOx Duo™ increases the reaction vials capacity to 16 vials (2, 4 or 8 ml) using 2 of the same vial holders as the PhotoRedOx Box™. Using the 2 LED setup allows to increase reaction rate of difficult reaction conditions.

### Features

- Interchangeable LED from 365 nm to 808 nm
- Chamber designed to evenly distribute light
- Magnetic stirring on standard stirring plate
- Flexible vial formats
- Cooling by fan to maintain experiment at room temperature
- Flow reactor available

### Benefits

- Easy setup on a standard stirring plate
- Perform up to 32 reaction conditions simultaneously
- Individually sealed vials enable
- Flexible study design



US Patent #10,906,022

Specifications	HCK1006-01-023
Vial size	0.3 ml to 20 ml
Samples/reaction	64 max
Flow	2 ml Flow Cell available
Suggested light source	2x - EvoluChem™ LEDs PF
Compatible LEDs	Compatible with most PAR20 (2.5 in diameter style LED) sources
Wavelengths available	multiple options from 365nm to 808 nm
Light intensity	based on the attached LED source
Dimmable	based on the attached LED source
Temperature Control	Built in fans hold internal reactor temp. ~30 °C depending on light source
Chiller fittings	N.A.
Suggested chiller	N.A.
Stirring	external stir plate required
Dimension	10.75" X 4.875" X 7.0"
Power requirements	110V AC/ 12V DC (US) or 220V AC/12V DC (EU/UK)
Operating requirements	external stir plate, light source, chemical fume hood (if applicable), protective eyewear, safety shield

**Related accessories**  
 Lights  
 Holders  
 Flow Cell  
 Safety Accessories

## Screen with temperature control

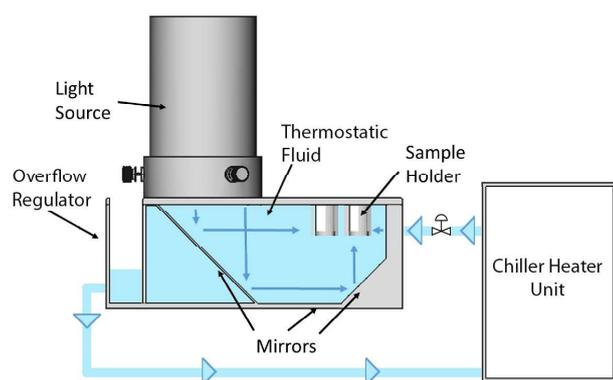
The EvoluChem PhotoRedOx Box TC™ (Temperature Controlled) is the chemist's choice for a temperature controlled photoreactor that provides the flexibility and precision of the PhotoRedOx Box™.



All the benefits of the PhotoRedOx Box™ with temperature control from 0°C to 80°C. The unique reaction chamber geometry directs light throughout, allowing the performance of multiple reaction conditions simultaneously. However, with the aluminum-based, waterproof PhotoRedOx TC™, it is possible to heat and cool the reaction medium using a thermostatic fluid (such as water or ethylene glycol) that recirculates through a standard chiller/heater unit.

### Features

- Interchangeable LED from 365 nm to 808 nm
- Chamber designed to evenly distribute light
- Magnetic stirring on standard stirring plate
- Flexible vial formats
- External recirculatory needed to heat/chill reaction vessel
- Flow reactor available



US Patent #10,906,022

<b>Specifications</b>	HCK1006-01-025
<b>Vial size</b>	0.3 ml to 20 ml
<b>Samples/reaction</b>	32 max
<b>Flow</b>	2 ml Flow Cell available
<b>Suggested light source</b>	1x - EvoluChem™ LEDs PF
<b>Compatible LEDs</b>	Compatible with most PAR20 (2.5 in diameter style LED) sources
<b>Wavelengths available</b>	multiple options from 365nm to 808 nm
<b>Light intensity</b>	based on the attached LED source
<b>Dimmable</b>	based on the attached LED source
<b>Temperature Control</b>	External heater/chiller allows operating temperature between 0 °C to 80 °C
<b>Chiller fittings</b>	3/8 inch ID tubing
<b>Suggested chiller</b>	Julabo Corio 200F or equivalent
<b>Stirring</b>	external stir plate required
<b>Dimension</b>	6.5" X 6.5" X 4.0"
<b>Power requirements</b>	N.A.
<b>Operating requirements</b>	external stir plate, light source, chemical fume hood (if applicable), protective eyewear, safety shield

**Related accessories**  
Lights  
Holders  
Flow Cell  
Safety Accessories