

EvoluChem[™] LUCENT360[™] Advanced Photoreactor

October 2020



LUCENT360

Parallel, Batch and Flow Reactions in a Temperature Controlled Environment

- Multiple vial format options (0.3-700ml)
- Temperature controlled with thermostatic fluid
- Unparalleled light configuration and control
- Interchangeable light modules with multiple wavelength options
- Leverage up to 4 wavelengths simultaneously
- Magnetic stirring

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Leading Photoreactor Design



The LUCENT360 is the most comprehensive photoreactor on the market. It's patent pending design provides the most flexibility for parallel, large batch and flow photochemistry.

Reaction vials are immerged in a thermostatic bath controlled by an external heater/ chiller unit, enabling temperature controlled experiment conditions.

Light irradiation is provided by custom, interchangeable light modules that surround the reaction chamber.

The reaction chamber itself is comprised of 2 glass walls (Dewar) that thermally insulate light sources from the reaction vial bath.



Temperature Controlled Reaction vials can be thermostatically controlled via a standard heater/chiller unit.



Interchangeable Light Modules Four light modules surround the reaction chamber and one light module sits underneath.



Thermally Insulated Reactions Double glass walls of the reaction chamber keep reaction vials at the correct temperature.

lucent adjective \'lü-s[®]nt \ : glowing with light : LUMINOUS

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Temperature Controlled Environment

The LUCENT360 advanced photoreactor includes standard circulation ports on all of its vial holders as well as an internal water pump and high performance heat exchanger.

Connecting the LUCENT360 to a standard heater/chiller unit enables accurate



temperature controlled reaction conditions that are insulated from the heat of light modules. A temperature probe (included) can also connect to each of the LUCENT360 vial holders, allowing for precise measurements. Fill and flow rate is controlled by the manual valves accessed on the front panel.

Reaction Vessel & Multiple Vial Format Holders



.3ml X 48

700ml Reactor

The 700ml reaction

vial allows large batch

benefit of temperature

controlled conditions.

photochemistry with the





4ml X 24



8ml X 24



Flow Reactors Enables scaling of photochemistry reactions by significantly increasing surface area. Flow reactors are made of PFA tubing and are available in 20ml and 50 ml volumes.



20ml X 12



Our unique holder enables simultaneous light wavelength (or intensity) experiments that have been impossible until now.

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Unparalleled Light Configurations and Control





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