

CORNING

The future flows through
Corning® Advanced-Flow™ reactors

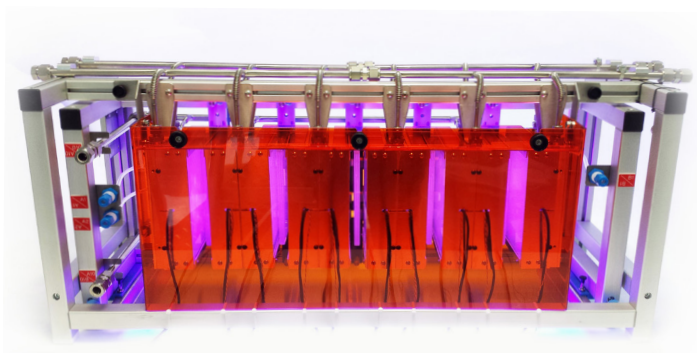
Corning® Advanced-Flow™ G1 Photo Reactor

Multipurpose Continuous Flow Photochemistry

Corning's success with Advanced-Flow™ reactor technology has helped enable advances into the photochemical market. The Corning® Advanced-Flow™ G1 photo reactor utilizes the technology of the Corning® Advanced-Flow™ G1 reactor and the added benefit of ultraviolet light to enable photoreactions and a consistent distribution of UV light to chemicals ensuring:

- better performance
- higher yields
- higher productivity for photochemical reactions
- more homogeneous absorption of light through the depth of the reaction channel

The Corning® Advanced-Flow™ G1 photo reactor is intended for customers who require photochemistry and a specific source of light, while benefitting from the heat- and mass-transfer capabilities of an Advanced-Flow™ reactor.



Benefits

- A Process Development Tool
 - Up to 5 fluidic modules in series
 - Up to 10 LED arrays that can be controlled independently
- A Pilot Scale Production Tool
 - Flow range: 10 to 150 ml/min
 - Pressure range: up to 18 bar

Features

- Tunable UV LED irradiation source available in multiple wavelength arrays
 - 365 nm
 - 405 nm
 - Other wavelengths available on request
- Both sides of glass fluidic modules illuminated
 - Efficient light penetration
- Variable LED lighting intensity
 - Typically up to 100 mW / cm²
- Safe operation
 - Low temperature UV lighting technology
- Extended LED lifetime due to efficient liquid cooling
- Reproducibility

To request information:

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