



Redeem Photo-Flow Reactor

Unleash the Power of Photochemistry



Your Benefits



- 1 Fit For Every Type of Catalyst
 The only plate type reactor that
 enables solid catalyst fixation.
- 3 Simple Multi-Phase Reactions
 Optional membrane for integrated
 gas/liquid or liquid/liquid
 separations.
- 2 Optimized Light Utilization
 Illuminated depth variation for
 maximum catalyst activity.
- 4 Customized Chemical Compatibility
 Flexible material of construction
 prevents leaching and corrosion.



- 5 Easy Cleaning and Maintenance Smart design and construction ensure an economical use.
- 7 Customization
 Tailor made mixing units for maximized mass transfer.
- 6 Reaction Monitoring
 Glass window for visual inspections
 and non-invasive PAT methods.
 - Scalability
 Scalable photochemistry made easy with different reactor sizes for mg/h to t/y production.





The Photoreactor in a Nutshell



Basic Model



- For solid photocatalyst
 Wide glass window
- Easy cleaning and maintenance

Illumination	Illuminated	Dimensions	Maximum	Temperature	Material
Area	Depth	LxWxH	Pressure	Range	
6×5 cm	700 μm	8.5×7×4 cm	5 bars	-20 to +205°C	Stainless steel, glass

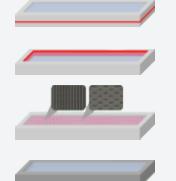
Membrane

Options

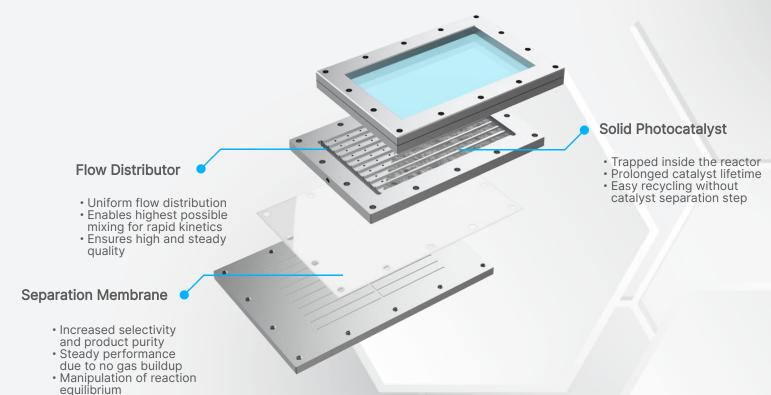
Channel Depth Variation

Mixing Patterns

Material of Construction



- Gas/liquid or liquid/liquid separation
- Optimized light utilization
- Highest possible catalyst activity
- Optimized heat and mass transfer
- Customizable patterns
- Customized chemical compatibility
- No leaching or corrosion





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About Redeem Solar Technologies





Contribute to a sustainable future by providing the world with green energy, chemicals, and active pharmaceutical ingredients through innovative technologies that leverage the power of light.

Supported by





Federal Ministry Republic of Austria Climate Action, Environment, Energy, Mobility, Innovation and Technology







Online presence:





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