

Redeem Photo-Flow Reactor

Enlighten Continuous Processing

Product Datasheet



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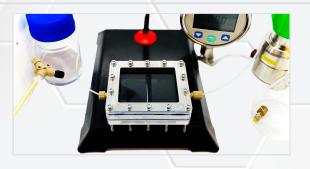
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Product Description

The Redeem's Photo-Flow Reactor enlightens continuous processing by providing a highly customizable photo-catalytic flow reactor that combines the benefits of photo and flow chemistry for efficient, green and more convenient chemical research.



Technical Data

16 × 5 cm	
700 µm	1 Tune the illuminated depth in the range of 350 μm to 2000 μm with Redeem adjustable gaskets
8.5 × 7 × 4 cm	
2.1 ccm	² Smaller reaction volumes are available with the Redeem - µchannel gasket
0.66 kg	
Stainless steel	³ Other materials are available including aluminum and Hastelloy
FKM Viton	⁴ PTFE and Silicon seals are available
-20°C and +205°C	
5 bar	
Float glass (λ =365 to 700 nm)	⁵ Quartz windows are available for shorter wavelength
Add-on	⁶ Select membranes from the Redeem membrane library
Add-on	7 Used for fixing catalyst particles, available in the range of 25 to 200 μm opening strainers
ldex ¼ - 28 female UNF	⁸ Other connections are available
	700 μ m 8.5 × 7 × 4 cm 2.1 ccm 0.66 kg Stainless steel FKM Viton -20°C and +205°C 5 bar Float glass (λ =365 to 700 nm) Add-on Add-on

Membrane Library

Polytetrafluoroethylene (PTFE) Polyamide Amorphous Fluoroplastic (AF 2400) Polypropylene (PP) Polyimide Thermoplastic Polyurethane (TPU) Polyether Sulfone (PES)

Suggested Additional Equipment

PumpsSyringe pumps, Masterflex or Golander peristaltic pump (2.5 bar), Knauer HPLC pump for P> 2.5 barLight SourceKessil or Hepatochem (1 LED is enough to illuminated one reactor)TubingFEP 1/16 and 1/8 in tubing, Pharmed BPT tubing for peristaltic pump



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About Redeem Solar Technologies



REDEEM SOLAR TECHNOLOGIES

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