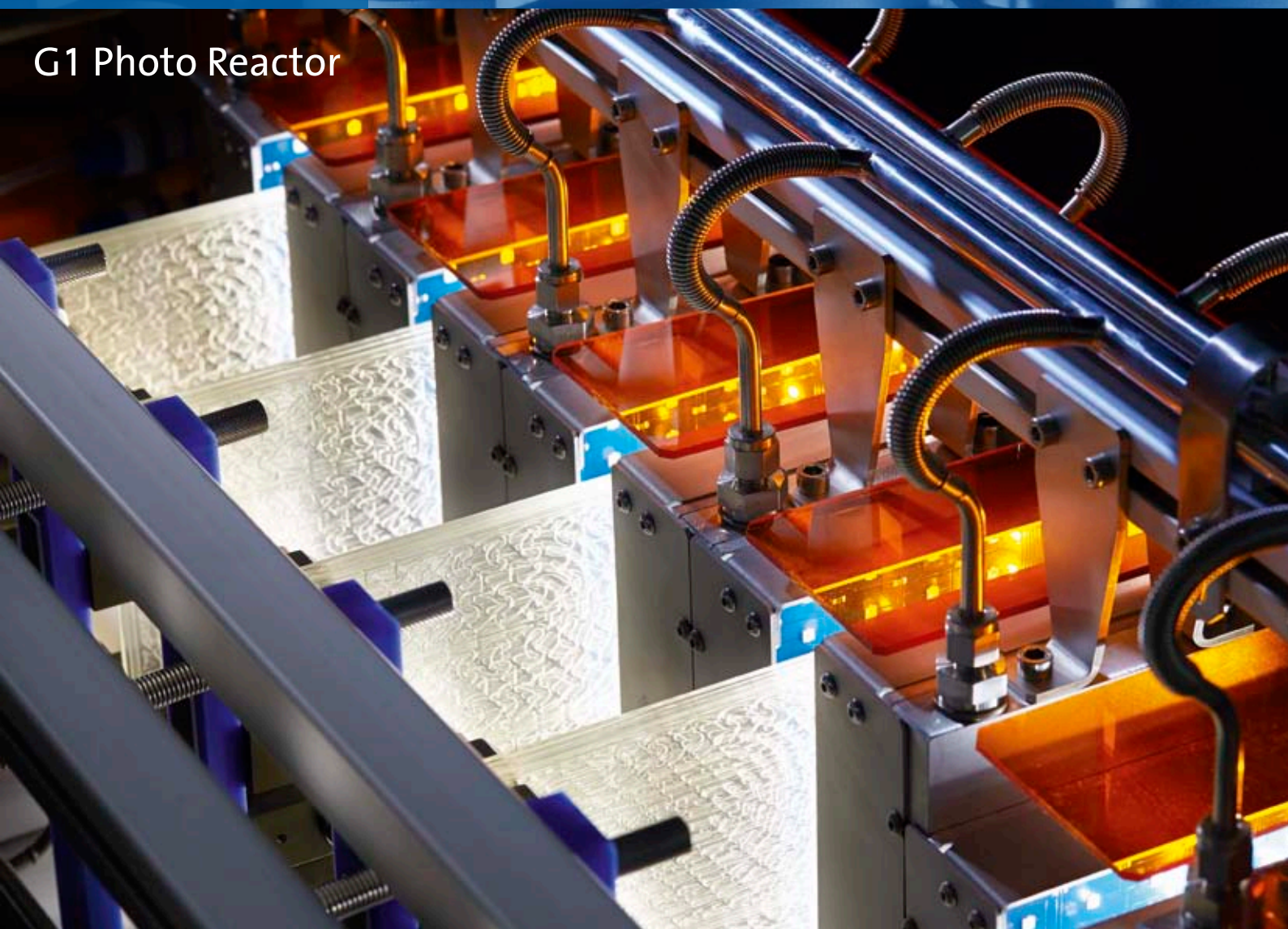


CORNING

The future flows through
Corning® Advanced-Flow™ Reactors

G1 Photo Reactor

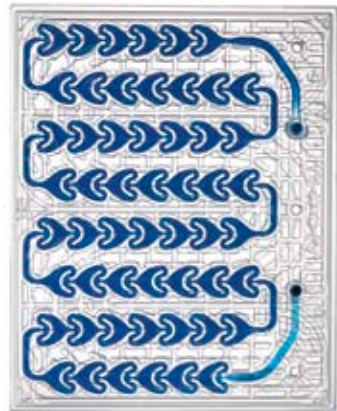


G1 Photo Reactor

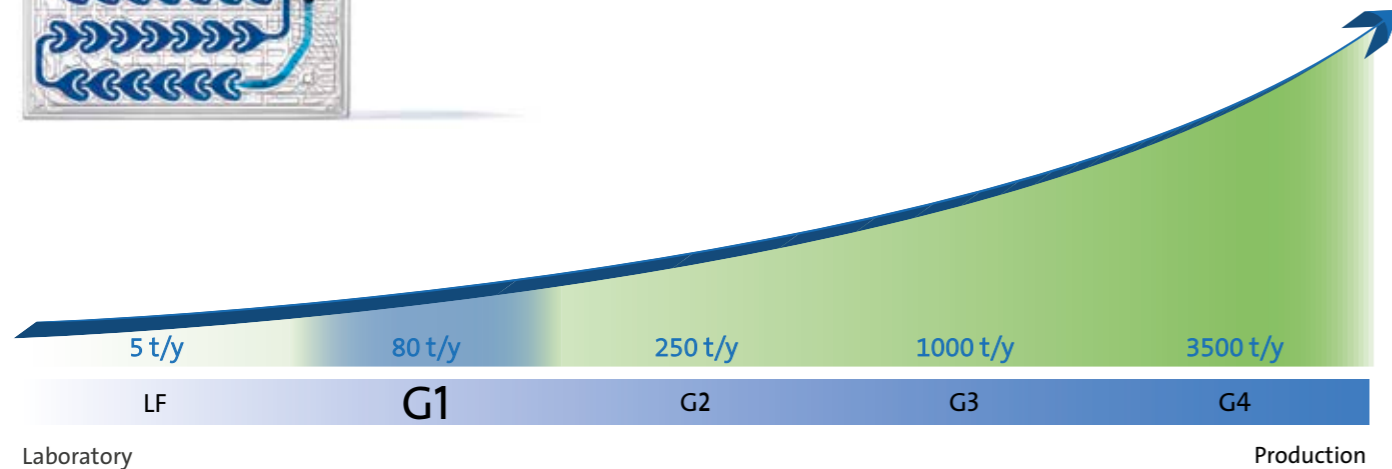
Process development and small production Photo Reactor

Features

- Integration of a G1 glass reactor with a multiple wavelength LED lighting module
- Outstanding mixing and heat exchange: patented HEART design
- Small internal volume
- High residence time
- Highly flexible and multipurpose
- High chemical durability



Fluidic module size:
155 x 125 mm



Laboratory

Production



Reactor size:
94 x 42 x 40 cm
(L x W x H)

Technical Specifications

| FLOW RATE | TEMPERATURE | PRESSURE | MATERIALS | FLUIDIC MODULE | OPTIONS |
|------------------|----------------|---------------|------------------------------------|----------------------|----------------------|
| 10 to 200 ml/min | -60°C to 200°C | Up to 18 barg | Glass PFA Perfluoroelastomer | 9 ml internal volume | FDA, cGMP compliance |

Mass Transfer 100 x better *

Heat Transfer 1000 x better *

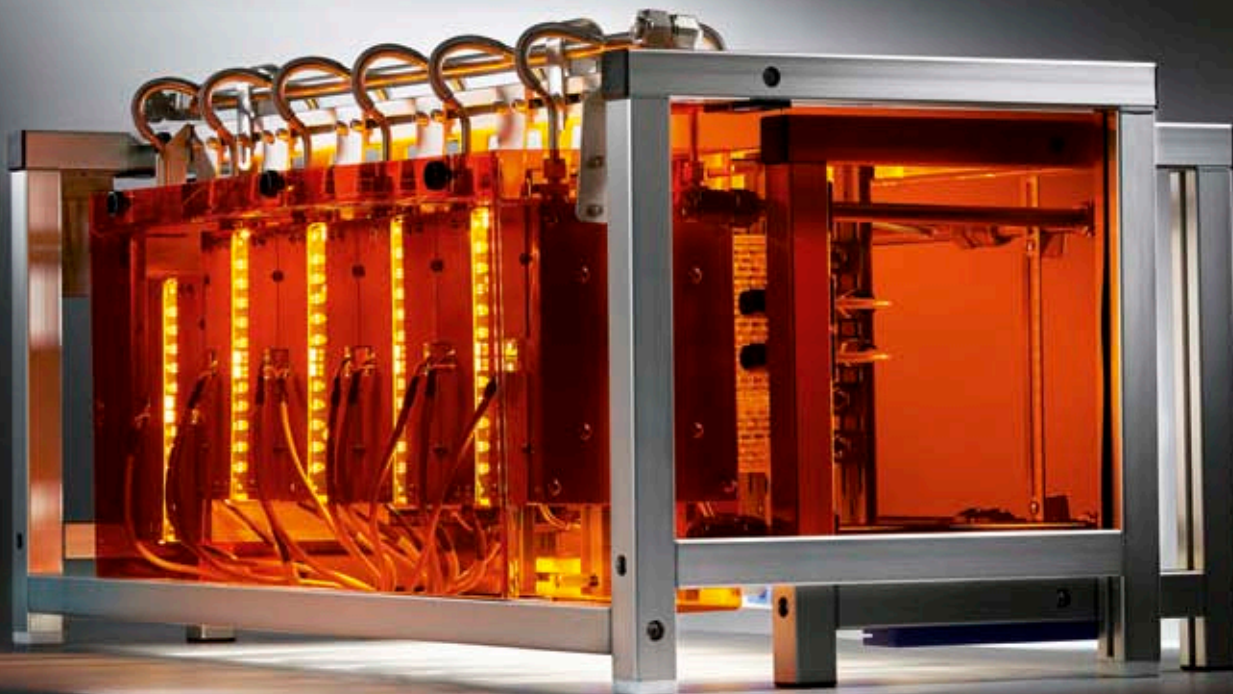
Reaction Volume 1000 x lower *

Residence Time Distribution 50 x better *

* compared to batch reactors

Lighting module features

- Tunable UV LED irradiation source available in multiple wavelength arrays
- LED lighting intensity higher than 100 mW/cm²
- Efficient light penetration with both sides of glass fluidic modules illuminated
- Safe operation with low temperature UV lighting technology
- Extended LED lifetime due to efficient liquid cooling



CORNING

EMEA and NSA

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