The future flows through
Corning® Advanced-Flow™ Reactors

G1SiC Reactor
G1 SiC Reactor
Process development and small production

Features
- Outstanding mixing and heat exchange: patented HEART design
- Small internal volume
- High residence time
- Highly flexible and multipurpose
- High chemical durability (suitable for high pH compounds and hydrofluoric acid)
- Hybrid glass/SiC solution
- Seamless scale-up with other Advanced-Flow™ Reactors products

Fluidic module size:
188 x 162 mm

Reactor size:
88 x 38 x 72 cm (L x W x H)

Technical Specifications

<table>
<thead>
<tr>
<th>FLOW RATE</th>
<th>TEMPERATURE</th>
<th>PRESSURE</th>
<th>MATERIALS</th>
<th>FLUIDIC MODULE</th>
<th>OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 to 200 ml/min</td>
<td>-60°C to 200°C</td>
<td>Up to 18 barg</td>
<td>Silicon Carbide PFA Perfluoroelastomer</td>
<td>10 ml internal volume</td>
<td>ATEX certification; FDA, cGMP compliance</td>
</tr>
</tbody>
</table>

Laboratory
5 t/y 80 t/y 250 t/y 1000 t/y 3500 t/y
Production
LF G1 G2 G3 G4

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
**Reactor configuration**

Reactor is multipurpose and configuration can be customized. Injection points may be added anywhere on the reactor.

---

**Example of a typical configuration**

---

**CORNING**

**EMEA and NSA**
Corning S.A.S.
Reactor Technologies
7 bis Avenue de Valvins
CS 70156 Samois sur Seine
77215 Avon Cedex, FRANCE
ph. +33 1 64 69 71 07
fax +33 1 64 69 70 59
reactors@corning.com

**CHINA**
Corning China (Shanghai) RHQ
No. 358 Lu Qiao Road
Jinqiao Export Processing Zone, Pudong
Shanghai 201206, CHINA
ph. +86 21 22152888 *1408
fax +86 21 621522988
reactor.asia@corning.com

**INDIA**
Corning Technologies India Pvt. Ltd.
2nd floor, DLF Building 9B
DLF Cyber City Phase III
Gurgaon, Haryana 122002, INDIA
ph. +91 124 4604000
fax +91 124 4604099
reactor.asia@corning.com

www.corning.com/reactors © 2016 Corning Incorporated. All rights reserved