

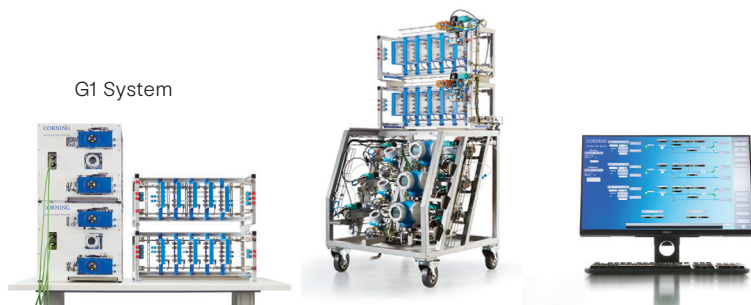
CORNING

The future flows through
Corning® Advanced-Flow™ Reactors

G1 Production System

- Flexible and versatile system design for industrial production
- FDA compliant subject to customer certification, including control software
- Compatible with any type of Corning G1 reactor, based on glass or SiC fluidic modules
- Up to 6 liquid dosing lines and 1 gas line, offering various materials of construction for chemical compatibility
- Metal free downstream equipment
- Appropriate thermostat integrated into HMI
- Fully automated system
- Mass transfer 100X better*
- Heat transfer 1000X better*
- Reaction volume 1000X lower*
- Residence time distribution 50X better*

G1 System



User friendly software to control and monitor all elements of the system: dosing lines, thermostats and downstream

Flow Rate

Up to
2000 ml/min

Temperature

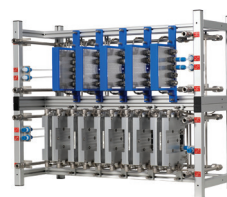
-40°C / 200°C

Pressure

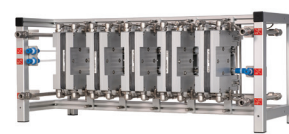
Up to
18
barg



Fluidic Modules



G1 Hybrid Reactor



G1 SiC Reactor

Item Type	Included with the full package system <i>(other limited options available on request)</i>
Reactor	1 G1 10 FM (SiC, Glass, or Hybrid)
Dosing lines	2 liquid dosing lines - Wetted materials: stainless steel / gear pump 2 liquid dosing lines - Wetted materials: Hastelloy / gear pump 2 liquid dosing lines - Wetted materials: PFA & PTFE (metal free) / piston pump 1 gas line - MOC: stainless steel All being equipped of automated valves
Thermostat	2 thermostats - 20°C* / 200°C 2 thermostats 0°C* / 120°C *Lower temperature possible in option
Downstream equipment	Metal free back pressure regulator with automated control 2 automated valves to switch in between collecting vessels
Electrical cabinet with automation	Based on Siemens automation devices
Control system	Computer with human machine interface Software compliant with CFR 21 part 11 Data visualization through graphs and recording Configurable recipes

CONTACT:

EMEA and NSA

Corning S.A.S.
Reactor Technologies
7bis Avenue de Valvins
CS 70156 Samois-sur-Seine
77215 Avon Cedex
France
Email: reactors@corning.com

CHINA

Corning China (Shanghai) RHQ
No. 358 Lu Qiao Road
Jinqiao Export Processing Zone, Pudong
Shanghai 201206
China
Email: reactor.asia@corning.com

INDIA

Corning Technologies India Pvt. Ltd.
2nd Floor, Pioneer Square
Sector 62, CRPF Road
Near Golf Course Extension Road
Gurugram, Haryana 122005
India
Email: reactor.asia@corning.com

www.corning.com/reactors