

CORNING

The future flows through Corning® Advanced-Flow™ Reactors

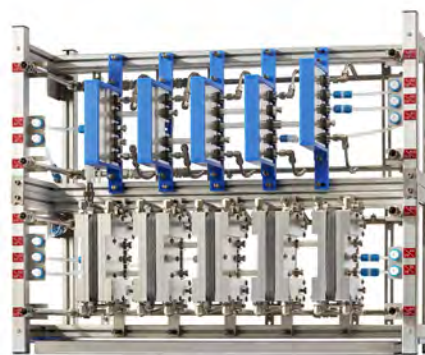
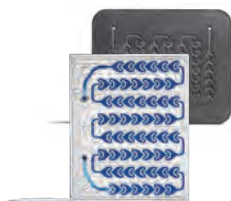
G1 Production System



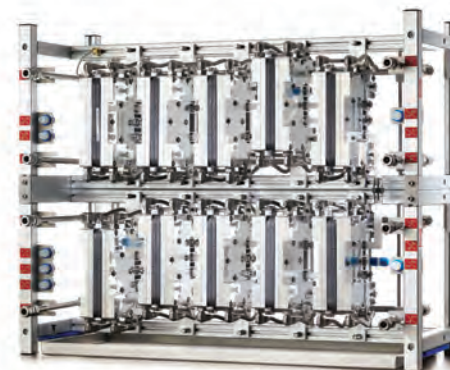
G1 Production System

Features

- Flexible and versatile system designed 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



G1 Hybrid Reactor



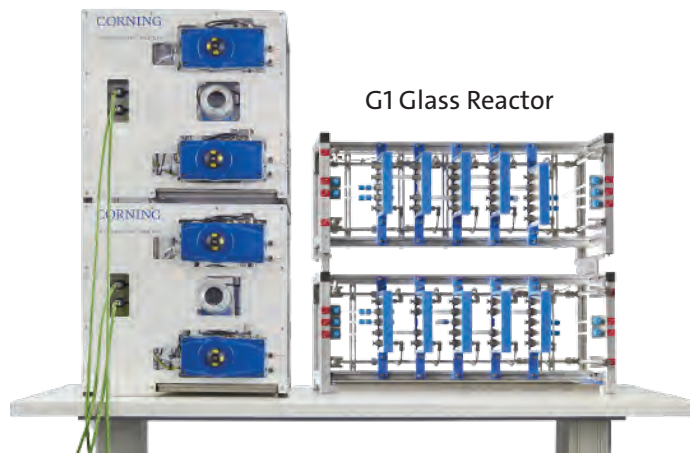
G1 SiC Reactor

Boundary Condition

Flow Rate	Temperature	Pressure
Up to 200 ml/min	-40°/200°C	Up to 18 bar



G1 Glass Reactor



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

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

G1 Production System Description

Item Type

Included with the full package system (other limited options available on request)

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

CORNING

EMEA and NSA

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