

CORNING

The future flows through Corning® Advanced-Flow™ Reactors

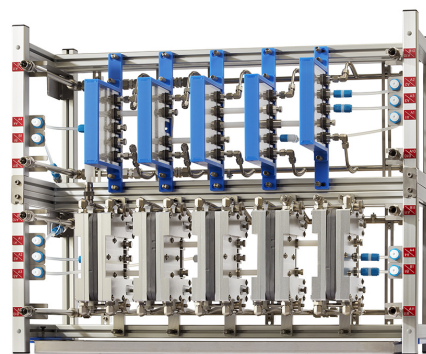
G1 Process Development System



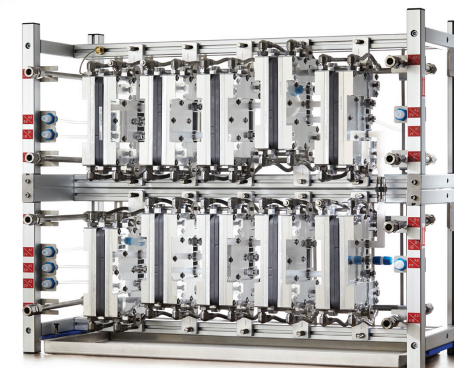
G1 Process Development System

Features

- Flexible and versatile system designed for process development
- Compatible with any type of G1 reactor, based on glass or SiC fluidic modules
- Up to 4 liquid dosing lines and 1 gas line, offering various materials of construction for chemical compatibility
- Flow control through reactant vessel weight measurement
- Control system with touch screen interface enabling an easy control of main features



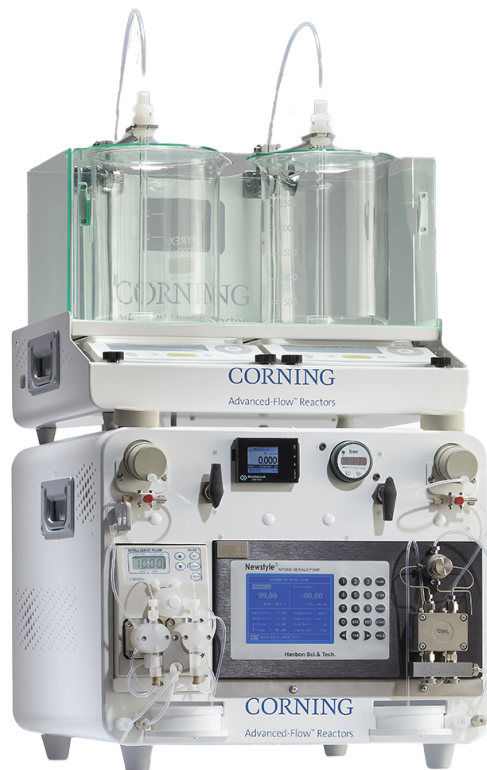
G1 Hybrid Reactor



G1 SiC Reactor

Boundary Condition

Flow Rate	Temperature	Pressure
Up to 200 ml/min	-60°C/200°C	Up to 18 bar



Main Dosing Unit

Control System



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 Process Development System Description

Item Type

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

Reactor	1 G1 10 FM (SiC, Glass, or Hybrid)
Main Dosing Unit	2 balances for flow control 1 liquid dosing line 0-100ml/min - Wetted materials: PFA, PTFE 1 liquid dosing line 0-100ml/min - Wetted materials: Titanium, PFA, PTFE 1 gas line - Wetted materials: stainless steel
Optional Dosing Unit	2 balances for flow control 1 liquid dosing line 0-100ml/min - Wetted materials: PFA, PTFE 1 liquid dosing line 0-100ml/min - Wetted materials: Titanium, PFA, PTFE
Control System	Based on Siemens automation devices
Downstream	Metal free back pressure regulator
Thermostats	Compatible utilities solution depending on temperature requirements

CORNING

EMEA and NSA

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