



SciLog® Single-Use Inline Dilution System 5-40 L/min

- Compact design for space efficiency
- Single-use flow path for flexibility

Parker's SciLog® Single-Use Inline Dilution (ILD) System is designed to offer a compact solution for point-of-use buffer needs.

Automated inline dilution is a process by which two liquid streams are brought together in a controlled fashion to meet a target concentration.

Inline dilution allows for more efficient and flexible process design by blending or diluting multiple buffers to the required concentrations at the point of use, resulting in smaller buffer batch sizes and thus a smaller facility footprint.

The SciLog Inline Dilution System can create buffers for downstream processes such as purification, chromatography, and adjustment steps or to dilute media for upstream processing.

Features and Benefits

- Compact footprint
53" L x 30" W
(135 cm x 76 cm)
- WFI control via break bag or direct plant loop
- Point-of-use buffer creation in suite or at tank farm
- 5-60L/min output
- Irradiated single-use manifolds with patented single-use static mixer
- 4 concentrate inlets, 4 buffer outlets
- pH/Conductivity end points
- 65x dilution tested



Note: SciLog® is a registered trademark of Parker Hannifin Corporation.

Flexible Performance

With a completely single-use flow path and the ability to flush the lines with WFI between runs, dilution of multiple buffers is possible without changing out the manifold.

Key Differentiator

Patented iSUM™ Inline Single-Use Static Mixer

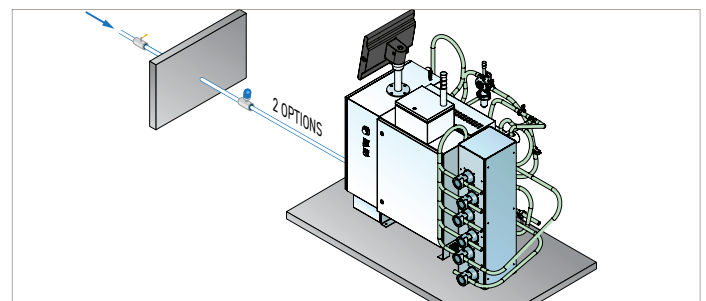
- Made with standard MOC
- Gamma stable and flexible control
- Compatible with commonly used concentrates
- Overmolded static mixer has no ingress and prevents leaks
- Enables small footprint, additional mixer vessel not needed



Single-use static mixer

WFI Control

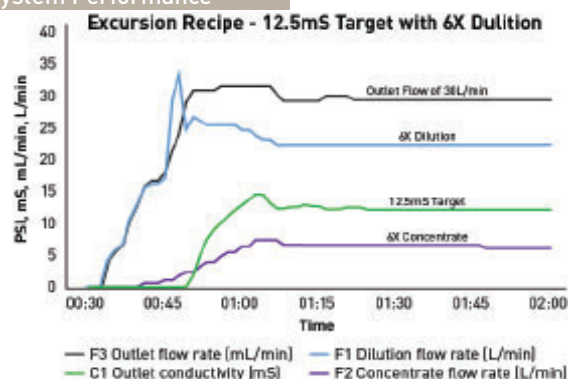
- System can monitor facility WFI tanks to ensure WFI supply availability
- System can be used with WFI break bag or can connect directly to automated WFI flow drop valve



Parker SciLog® Single-Use Inline Dilution System

Improve process time, reduce waste

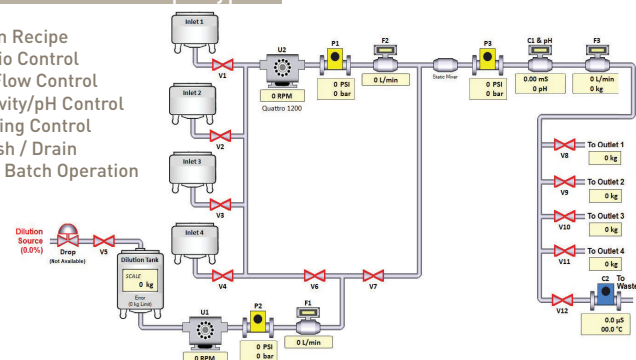
System Performance



Achieves Conductivity / pH Set Point in 30 seconds

SciSoft Software & Recipe Types

- Excursion Recipe
- Flow Ratio Control
- Manual Flow Control
- Conductivity/pH Control
- WFI Pooling Control
- Fill / Flush / Drain
- Single or Batch Operation



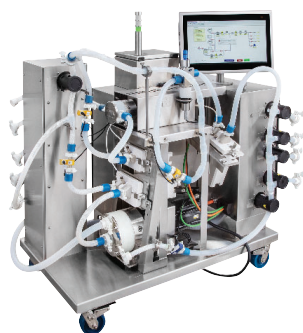
Parker's SciSoft is capable of menu driven recipes/phase executions or connection to a SCADA system to pass along recipe parameters for remote operation.

Specifications

Dimensions	53" (135 cm) x 30" (76 cm)	Control points	Flow, dilution factor, pH or conductivity
Concentrate pump flow rates	0.5 - 18 L/min	Electrical requirements	240-480VAC, Single or Three Phase, 20/15amps
WFI pump flow rates	2 - 60 L/min	CIP compatible tubing	Platinum cured silicone
Recommended output	5-60 L/min	Electrical protection standards	Meets standards for CE / UL, RoHS, REACH, WEEE
Dilution range	1x - 65x	In-line sensing	3x Pressure Sensors 2x Conductivity Sensors 1x pH Sensor 1-3x Coriolis Flow Meters
Operating temperature range	4°C to 40°C	Operator interface	HMI or Remote
Line size	¾" Inner Diameter	Automation	PLC onboard - Single or Batch
Maximum outlet pressure	40 PSI	Scada integration	OPC, Automation Protocol(s), or Direct to PLC
Inlets/Outlets	4 inlets, 4 outlets	Software compliance	SciSoft is compliant to 21 CFR Part 11
Outlets	4	Qualification Package	Turn overpackage standard. IQ/OQ + GAMP Packages Available
Process connection	Tri-clamp or Aseptic Connection	Certificates	System COC Manifold MOC Gamma UPS VI
Manifold MOC	Platinum cured silicone, Polypropylene, Polysulphone, PEEK		

Ordering Information

SYSTEMS	
Electrical Requirements	Part#
240V 1Phase 20 amp	805-ILD-40-220-1
240V 3 Phase 20 amp	805-ILD-40-220-3
480V 3 Phase 15 amp	805-ILD-40-480-3



CONSUMABLES	
Manifold Section	Part#
Water Line	805-ILD-40-WFI
Concentrate Line	805-ILD-40-CONC
Mixing / Outlet Line	805-ILD-40-OUTLET

To configure additional options for systems or manifolds, please contact your Parker sales representative or email bioprocess.systems@parker.com.

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