














BIOPROCESSING TECHNOLOGIES REFERENCE GUIDE

BIOPROCESSING SYSTEMS					FLUID MANAGEMENT
Semi-Automated	Fully-Automated				Quantitative Fluid Management
SciLog® NFF System	SciLog® TFF System	SciLog® Filter & Dispense Systems	SciLog® Inline Dilution System	SciLog® Cryobag Filler System	SciLog® WeighStation Family
 <ul style="list-style-type: none"> • Single use system for depth, sterile, viral, and bioburden reduction filtration • Optimizes filter throughput with patented Rate-Pressure control mode • Monitors differential pressure using SciLog single use pressure sensors • Easy integration with existing scales 	 <ul style="list-style-type: none"> • Fully automated single use system, sized to fit your application • Automated TMP control • Can be integrated into SCADA and MES systems • Works with end user defined hollow fiber or cassette filters 	 <ul style="list-style-type: none"> • Available in both bag & bottle designs • Automates final filtration and filling of bulk drug substance • Fills up to 12 bags/bottles, 1L-20L gravimetrically per dispensing spine • Completely closed single-use flow path protects both the operator and product 	 <ul style="list-style-type: none"> • Automated control to ensure output remains in specification (pH or conductivity) • Can be used to create bulk buffer or feed processing equipment directly. • Monitors plant WFI supply. Can connect directly to WFI drop or use with a break bag • Incorporates patented inline single-use static mixer technology 	 <ul style="list-style-type: none"> • Fills up to 24 cryobags, 25mL-1L gravimetrically for cell banking or cell-based products • Integrated sealing bar seals all bags at once • Integrated chiller and stir plate allow for formulation directly on the system • Label printer automatically prints labels 	 <ul style="list-style-type: none"> • The SciLog® WeighStation™ family is an assortment of mobile, compact, bioprocessing container holders with integrated scales for gravimetric fluid handling • Mobile design/small footprint • Gravimetric application control • Optional displays • Multiple configurations • Operator friendly design • Easily integrates with existing systems





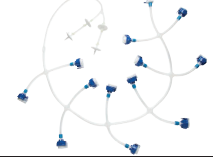
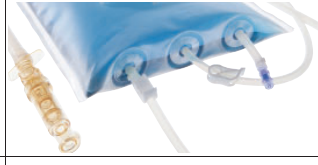
INTELLIGENT LAB SYSTEMS				
Precision Metering System	Normal Flow Filtration (NFF) System	Smart Dispenser System	Cell Culture Maintenance System	Tangential Flow Filtration (TFF) System
ChemTec & ChemTec II	FilterTec /FilterTec Plus & FilterTec II	LabTec	MabTec	PureTec & PureTec II
 <ul style="list-style-type: none"> • Stored methods for linear or exponential feed by weight or volume • Validated methods for pH control and titration, analytic (UV, turbidity) device tracking, preparative chromatography, and buffer weight maintenance • Walk-away automation with remote or user defined alarms and interlocks • Programmable control of two 6-port rotary valves 	 <ul style="list-style-type: none"> • Filterability studies and VM_{ax} determination • Increase DEF filter utilization up to 35% • 3 pressure sensor and balance hook-ups for filter trains • Safe, walk-away system operation. 	 <ul style="list-style-type: none"> • Rapid, high precision dispensing / filling, mL to L • Automated dispensing by weight or by volume • In-line filter sterilization – senses filter plug-up • Sample weighing and auto-diluting – weight ratio capability • Performance validation sent with each LabTec® 	 <ul style="list-style-type: none"> • Promote high-density cell culture through automated seed, feed and perfusion strategies • Methods and alarms to protect your entire cell culture processes • Modular compact design enhances current setups • Seamless integration to any bioreactor to enhance performance 	 <ul style="list-style-type: none"> • Ideal for lab-scale UF/MF/DF – concentration and diafiltration • Controls and monitors TMP (transmembrane pressure) and feed rate operation • Set end points and alarm for walk-away operation








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BIOPROCESSING TECHNOLOGIES REFERENCE GUIDE (cont.'d)

FLUID MANAGEMENT					
Fluid Storage			Fluid Transfer		Connector Kits
3D Bioprocess Bags, PureTain®	2D Bioprocess Bags, PureTain®	SpinBag	Single Use Tubing, PureTain®	Single Use Manifolds, PureTain®	Accessories
 <ul style="list-style-type: none"> • Customizable 3D geometries for mixing, storage, buffer creation, transportation • A range of ports are available from 1/8" – 1" • Single-side, double-sided with dip tubes & TC port options • Silicone or TPE tubing with molded junctions, sanitary fittings and aseptic connections • Easy integration with Parker filters, sensors, and pump systems • Increases productivity, reduces operational costs, and mitigates containment risk • Manufactured in Class 7 Clean Room 	 <ul style="list-style-type: none"> • Customizable 2D geometries for storage, shipping, hanging and weighing, sampling • A range of ports are available from 1/8" – 1" • Single-side, double-sided with dip tubes & TC port options • Silicone or TPE tubing with molded junctions, sanitary fittings and aseptic connections • Easy integration with Parker filters, sensors, and pump systems • Increases productivity, reduces operational costs, and mitigates containment risk • Manufactured in Class 7 Clean Room 	 <ul style="list-style-type: none"> • The compact SpinBag Mixing System offers the advantages of single-use in a bench top mixing solution • Constructed of fully validated DuraPure C93 film • Stores flat and ideal for bioprocessing applications • Easily integrated with filters, sensors and pumping systems • Platinum-cured silicone magnetic stir • Gamma irradiation option 	 <ul style="list-style-type: none"> • A range of platinum-cured silicone tubing, etched with lot and part numbers for traceability • Ideal for molding with other silicones into manifold assemblies • Other tubing products include a number of reinforced tubings 	 <ul style="list-style-type: none"> • Single-use systems tailored to your application • Proprietary technology allows any configuration of Ys, Ts, crosses, reducers, and elbows, with virtually unlimited lengths between molds • Molded junctions are stronger, eliminate entrapment, and offer smooth, unrestricted flow • Contact us to discuss integrating bags, tubing, sensors and connectors to suit your needs. Can also be made with zip-ties 	 <ul style="list-style-type: none"> • Full range of connectors from a wide array of suppliers • Allows flexibility and connectivity within your process • One stop shop convenience to meet all of your connection needs

SINGLE-USE SENSORS	FILTRATION		INTEGRITY TESTERS	
Sensors and Sensor Monitors	Sterilization / Bioburden Filters	Pharmaceutical Prefilters	Gas Filters	Integrity Testing Equipment
SciPres SciCon SciTemp	PROPOR Range	PROCLEAR Range	TETPOR Range / PEPLYN Air	Porecheck / Valairdata
 <ul style="list-style-type: none"> • Pre-calibrated sensors for single or extended-use • Each sensor is pre-calibrated with a unique identifier and is lot traceable • Factory calibration ensures the highest level of accuracy and is stored on each sensor's memory chip for out of the box, plug and play use • Custom calibrations available • Available in 5 connection sizes 	 <ul style="list-style-type: none"> • Fully validated and integrity testable bioburden reduction, sterile filtration and mycoplasma removal • All PROPOR products incorporate fast flowing and low binding PES membrane • Available in cartridge and capsule formats 	 <ul style="list-style-type: none"> • Effective reduction of particulate and microbial contaminants in pharmaceutical liquids • Ideal for protection of downstream membrane filters • Wide choice of filter materials give flexibility in all processes 	 <ul style="list-style-type: none"> • Extensive range of membrane and depth filters for all air, gas and venting applications • Unrivalled flow rates for decreased system size • Sterile filters are fully validated and integrity testable 	 <ul style="list-style-type: none"> • Porecheck 4 - Water intrusion, pressure decay and bubble point testing of membrane liquid filters • Valairdata - Aerosol challenge testing of sterile gas filters



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