



BIOPROCESSING TECHNOLOGIES REFERENCE GUIDE

BIOPROCESSING SYSTEMS						FLUID MANAGEMENT
Semi-Automated	Fully-Automated					Quantitative Fluid Management
SciLog® NFF	SciLog® TFF	SciLog® Filter & Dispense	SciLog® Inline Dilution	SciLog® Cryobag Filler	OrbTec Bioreactor	SciLog® WeighStation Family
 - 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	 - 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	 - 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	 - 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	 - 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	 - Single use orbital and rocking bioreactor for low-shear cell cultures - Widest range of working volumes available amongst competition: 5/25/50/100/200/500 - pH, DO, and temperature control standard	 - The 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
 - 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	 - Filterability studies and VMax determination - Increase DEF filter utilization up to 35% 3 pressure sensor and balance hook-ups for filter trains - Safe, walk-away system operation.	 - 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	 - 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	 - Ideal for lab-scale UF/MF/DF – concentration and diafiltration - Controls and monitors TMP (transmembrane pressure) and feed rate - Set end points and alarm for walk-away operation



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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
 - 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	 - 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	 - 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	 - 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	 - 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	 - 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 & CLARIFLOW Range	PROCLEAR Range	TETPOR Range / PEPLYN Air	Porecheck / Valairdata
 - 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	 - Fully validated and integrity testable bioburden reduction, sterile filtration and mycoplasma removal - All products incorporate fast flowing and low binding PES membrane - Available in cartridge and capsule formats - Clariflow filters (B & P) offer all-polypropylene components	 - 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	 - 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	 - Porecheck - Water intrusion, pressure decay and bubble point testing of membrane liquid filters - Valairdata - Aerosol challenge testing of sterile gas filters



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