



The SciLog TFF Configurable System is a fully automated tangential flow filtration system capable of utilizing any brand of hollow fiber or cassette in a single use or reusable format. The modular system design allows it to be tailored to your process specifications.

Parker's years of industry experience in engineering and building Tangential Flow Filtration (TFF) systems have allowed us to streamline the design and build process. This enables Parker to deliver configured systems with the same lead times as standard competitor products.

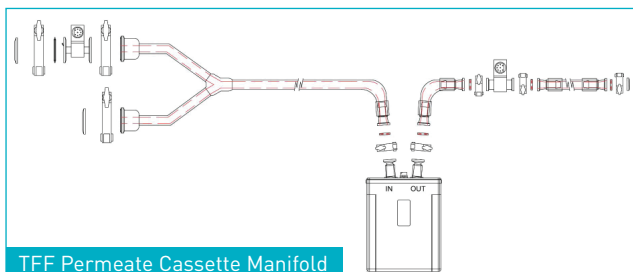
Using a modular system design, components can be easily switched to fit process specifications. Each component is independently validated and integrated using standard industry automation practices (S88).

SciLog TFF Systems are also available as commercial off-the-shelf systems in low, medium, and high flow standard formats.

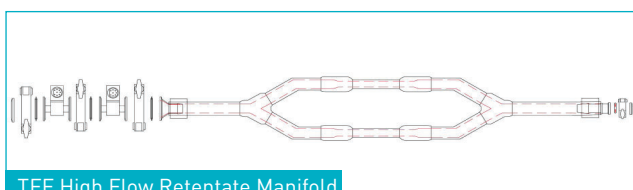
Features and Benefits

- Capable of processing at flow rates of 0.2-83 L/min depending on format
- Operating pressure up to 60 PSI
- Suitable for ultrafiltration (3kD-750kD) and microfiltration (750 kD- 0.65µm) applications and comes standard with diafiltration capabilities
- Recipe based control of process in either discrete steps or batch mode
- Touch-screen HMI with intuitive graphical interface
- Fully programmable alarms and interlocks

Sample Manifold Design



TFF Permeate Cassette Manifold



TFF High Flow Retentate Manifold

Parker's single-use manifolds are designed and manufactured to optimize the filtration process and minimize product loss. Overmolded connections are used to prevent leaks in areas of high pressure. Parker will incorporate any components specified regardless of manufacturer and can supply the manifolds gamma irradiated.

SciLog® TFF Configurable Systems

- intelligent bioprocessing system
- fully-automated tangential flow filtration

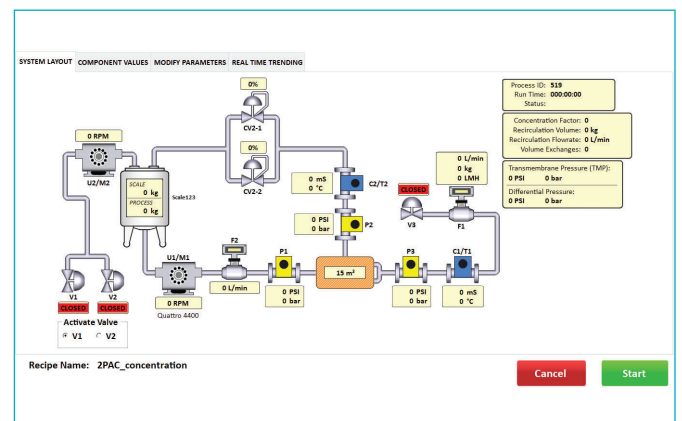


Note: SciLog® is a registered trademark of Parker Hannifin Corporation.

- 21CFR Part 11 Ready
- Easy integration into DCS/SCADA systems
- Direct connection to scales and mixers or integration via DCS
- User access level control via local or active directory
- Minimizes retentate vessel size using batch fed concentration mode
- Systems and manifolds designed in tandem to minimize hold up
- Smallest footprint on the market

Control Options

- Parker SciSoft
- Wonderware
- DeltaV
- Siemens S7



SciLog TFF Systems can be operated as a standalone system with process control, data collection and user levels remaining on the local system.

Parker has experience integrating systems with all major plant control systems using OPC, Profibus and Ethernet IP communication protocols.

Documentation and Support

Included with System

- FAT and SAT
- Hands-on training at FAT
- Certificate of Compliance
- System operations manual
- P&ID and General Arrangement Drawing with P&ID Callouts
- Electrical schematic
- Calibration certificates
- Critical spares list with manuals or datasheets
- Frame material certificates

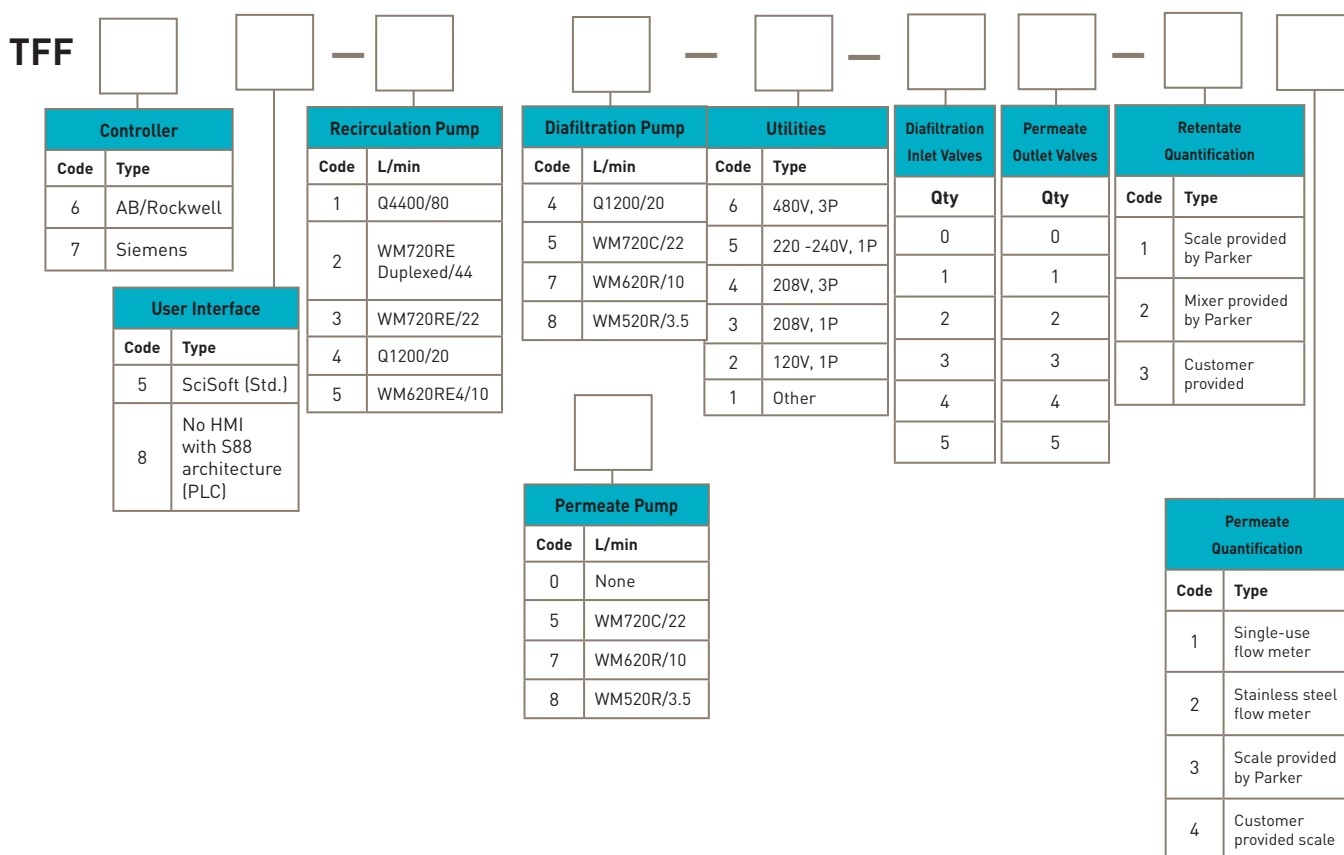
Additional Options

- GAMP document package
Includes:
 - Functional specification
 - Software design specification
 - Hardware design specification
 - IQ/OQ document package
- Service package
- On-site training
- IQ/OQ document package
- PQ document package

Specifications

Footprint	Small System - 30 in W x 48 in L (76.2 cm x 121.92 cm) Large System - 30 in W x 58 in L (76.2 cm x 147.32 cm)
Recirculation pump	0.2 - 83 L/min (pump flow rates listed in configuration table below)
Diafiltration pump	0.2 - 22 L/min (pump flow rates listed in configuration table below)
Permeate pump (optional)	0.2 - 22 L/min (peristaltic)
Software compliance	Compliant to 21CFR11
User interface	SciSoft with ability to connect to plant control systems (e.g. DeltaV™ on request)
Connection to plant control system	OPC, Profibus, Ethernet IP
Logic controller	Allen Bradley or Siemens based PLC system, with S88 programming
Sensor options	Pressure, Conductivity, pH, UV (others available upon request)
# of Automated inlet valves	Up to 5
# of Automated permeate valves	Up to 2
Retentate quantification	SciLog® WeighStation / mixer / balance options
Permeate quantification	Single-use flow meter / SS flow meter / balance options
Electrical standards	RoHS and REACH compliant, and most meet standards for CE/UL/CSA. Contact your local sales representative to confirm compliance based on your system configuration.
Electrical requirements	200-240V single-phase, 208V and 480V 3-phase
Pneumatics requirements	90 PSI instrument air or nitrogen

Ordering Information



Please contact your local Parker representative to discuss your application in detail or email bioprocess.systems@parker.com

Parker Bioscience Filtration has a continuous policy of product development and although the company reserves the right to change specifications, it attempts to keep customers informed of any alterations. This publication is for general information only and customers are requested to contact their local sales representative for detailed information and advice on a products suitability for specific applications. All products are sold subject to the company's standard conditions of sale.