

# FilterTec™ Plus

## 3-Filter Testing Station

- Simultaneously Compare 3 Filters
- Filterability Studies & Vmax Determination
- Evaluate Filter Combinations
- Monitor/Control Pressure, Feed Rate, Collection Rate, etc.
- Automatic Documentation to Spreadsheet
- Built-In Alarms for Walk-Away Operation
- Compatible with All Manufacturers' Filters

3-Filter Testing Station

i n t e l l i g e n t b i o p r o c e s s i n g s y s t e m s

**SciLog FilterTec™ Plus**

Product ID: 14-41 FILT2 27, RIP STAT: P-Source: P1, RP-1, CW: Units=ps; Limits: CV2=14, Alarms: CV=1, RT=1, LP=1, HP=4, FQ=2, Limits: CV2=00; LP=0.0, HP=20.0, LF=2.0, FQ=0.0

Com Port Setup	Clear Data	ET	FQ	P1	FF	FP	ST
14:41:16	00:00:00	0.0	1.1	25.0	20.4	0.0	7.6
14:41:27	00:00:11	3.5	1.2	25.0	24.0	0.0	11.0
14:41:36	00:00:20	11.6	1.6	25.0	25.2	0.0	15.6
14:41:47	00:00:31	15.6	1.8	25.0	24.0	0.0	19.6
14:41:57	00:00:41	19.6	2.2	25.0	23.4	0.0	23.7
14:42:06	00:00:50	23.7	2.6	25.0	24.0	0.0	27.7
14:42:17	00:01:01	27.7	3.1	25.0	24.0	0.0	31.7
14:42:27	00:01:11	31.7	3.6	25.0	24.0	0.0	35.8
14:42:36	00:01:20	35.8	4.1	25.0	24.0	0.0	39.7
14:42:47	00:01:31	39.7	4.7	25.0	24.0	0.0	43.7
14:42:57	00:01:41	43.7	5.4	25.0	24.0	0.0	47.7
14:43:07	00:01:51	47.7	6.1	25.0	24.0	0.0	51.8
14:43:17	00:02:01	51.8	6.8	25.0	24.0	0.0	55.8
14:43:27	00:02:11	55.8	7.6	25.0	24.0	0.0	59.7
14:43:37	00:02:21	59.7	8.4	25.0	24.0	0.0	63.7
14:43:47	00:02:31	63.7	9.2	25.0	24.0	0.0	67.7
14:43:57	00:02:41	67.7	10.0	25.0	24.0	0.0	71.7
14:44:07	00:02:51	71.7	10.9	25.0	24.0	0.0	75.7



**SciLog**®

Intelligent Bioprocessing Systems

# FilterTec™ Plus

## 3-Filter Testing Station

### Parallel Testing

Save time and improve efficiency in Filterability Studies & Vmax Determinations. The FilterTec™ Plus testing station gives you the flexibility to evaluate three filters simultaneously. Plus, you'll have the freedom to test filter combinations on your schedule. This allows you to test any combination of filters from the same or different manufacturers.

### Save Money with Real-time Monitoring

Improve your lab's productivity and efficiency. With FilterTec™ Plus be assured that your tests will maintain a constant rate or pressure without supervision. FilterTec™ Plus has five operational modes and six user-definable alarms that allow you to work on other projects while doing filter tests.

- R/P Stat Mode: Constant Rate/Constant Pressure Filtration with six user-definable alarms.
- P Stat Mode: Constant Pressure Filtration with six user-definable alarms.
- R/P Step-Scan Mode: Automated, programmable, continuous changing of pump rate or pressure with time.

### Save Time with Automated Documentation

Don't waste time manually documenting filtration information. SciDoc interface software is sent to you ready to use for real-time verification and documentation of filtration parameters. Automatic documentation allows for easy comparison of filters, and you'll be able to quickly present your data findings.

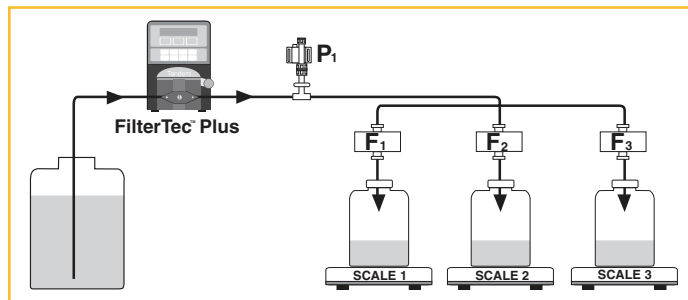
- SciDoc interface software with custom macros for Excel® for data compilation.
- Complete process analysis with graphing of data.
- Real-time verification and documentation of process parameters.

FilterTec™ Plus is shipped to you complete, ready to use as a 3-Filter Testing Station. This Station consists of 3 balances with cables, the Serial-3 Balance Interface box, and a stand and clamp set for holding your 3 filters over the balances. An optional 6-way Rotary Valve is available and is controlled by the operational modes.

You can test one, two, or three filters simultaneously.

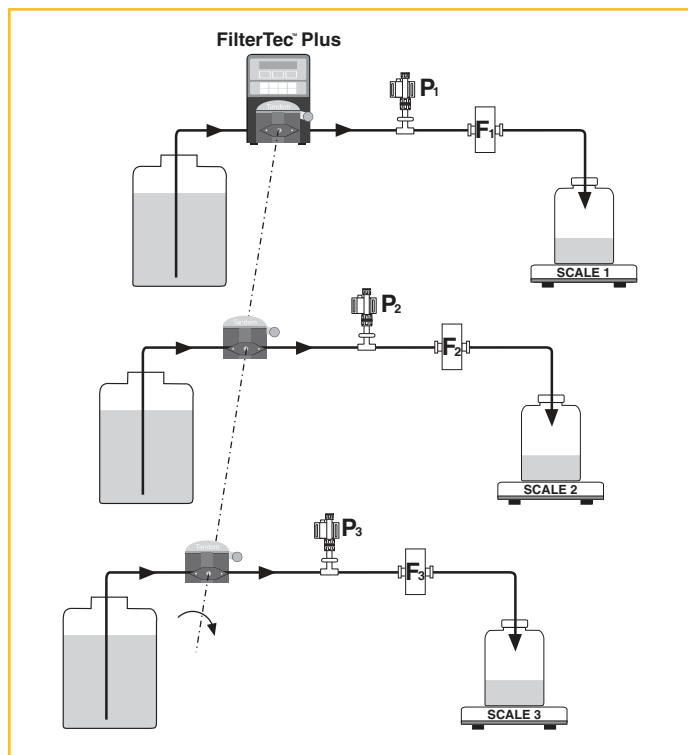
This system has several different parallel or serial configurations.

The first of the more common configurations uses one head to provide solution through a manifold to 3 filters while monitoring or controlling the pressure with each filter emptying into its own container on its own balance.



A constant pressure can be easily maintained, and the collection rates achieved will be based upon the dynamics of the filter. If the filters are the same, the Feed Rate will be roughly spit into thirds.

The second common configuration utilizes 3 pump heads, 3 sets of tubing, all 3 sensors and balances, with everything running in parallel.



This setup puts the control of the feed rate in the hands of channel 1 with channels 2 and 3 being similar, but not always identical. To minimize differences, use tubing from the same manufacturer and lot whenever possible.

Also, while only one of the 3 sensors will be used for control, each sensor and balance will provide independent alarms based on the system's settings. When in Constant Pressure Mode, the source sensor's channel is controlled, and the other channels again will be similar but not identical.