

# Tangential Flow Filtration (TFF) System



Our OptiMaxx Tangential Flow Filtration (TFF) System has a small footprint, allows for digital storing of recipes, and has the ability to use both single-use and multi-use conventions – making it the ultimate tool for advancing your TFF needs.

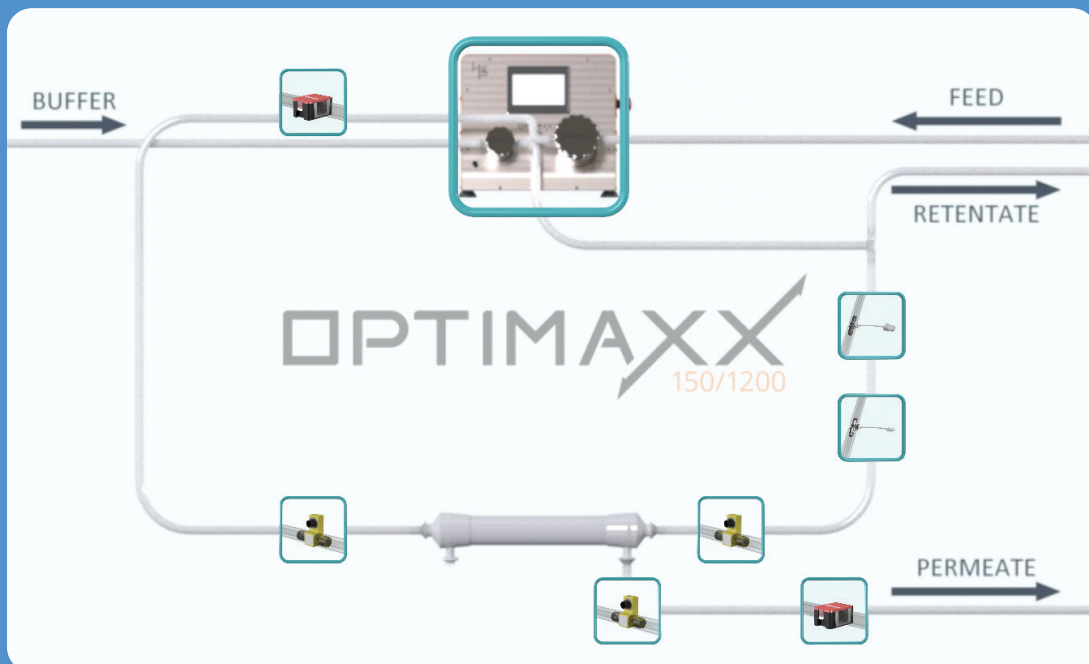
OptiMaxx can be used as either a benchtop TFF system or in skid configurations. The system is designed to be customized to the end-user's unique needs, featuring a range of sizes for scalability, as well as many customizable, pre-programmed UF/DF phases to define your operating schemes and processing flow paths.

Designed with intuitive HMI touchscreens and an open architecture, our OptiMaxx TFF Systems allow end users to choose from a variety of sensors and configurations.



#### Available Models:

- OptiMaxx 30/30
  - Feed: 0.001 - 0.5L/min
  - Buffer: 0.001 - 0.5L/min
- OptiMaxx 150/1200
  - Feed: 0.2 - 28L/min
  - Buffer: 0.017 - 3L/min
- OptiMaxx 1200/2500
  - Feed: 0.4 - 42L/min
  - Buffer: 0.2 - 28 L/min
- OptiMaxx 1200/4400
  - Feed: 2.5 - 120 L/min
  - Buffer: 0.2 - 28 L/min



## Features

- Ability to store digital recipes in the device's memory
- Sizes cover a wide range of flow rates, and maintain the same recipe and control features to ensure process scalability
- Open architecture allows the user to select both the sensors and the filters
- Dual pump control allows the user-defined process to operate either in tandem or independently to cover a wide variety of processing needs
- Able to run in either manual mode, or automatic mode with minimal interaction from end user
- Many customizable, pre-programmed UF/DF phases:
  - Concentration
  - Diafiltration
  - Flush
  - Recovery
  - As well as many more.
- Intuitive touch screen interface and user-defined processes and alarm set points
- Flexibility in using a temperature, pressure, conductivity or flow sensor from any manufacturer
- Capable of using a flat sheet or a hollow fiber filter
- OptiMaxx takes two scale inputs from Mettler Toledo
- 21 CFR part 11 compliant and can be used in manufacturing
- Built-in alarms and warnings allowing the user to stay focused on other tasks
- Can be used as a benchtop TFF system or for skid configurations
- Data storage – either local or ODBC database
- Custom options available for your specific processing needs

## Benefits for Manufacturing

- 21 CFR part 11 software module compliant via customer sequel database
- Customizable recipe configurator
- Available in different sizes in order to scale-up or scale-down your process
- Can integrate with existing MES or batch record as a custom option

## Filtration Control Schemes

- Filtration control schemes – ability to run each step separately
- Pressure control
  - TMP
  - $\Delta P$
- Flow control by volume or weight



	30/30	150/1200	1200/2500	1200/4400
<b>POWER</b>	110V AC @ 15 AMPS Single Phase 60 Hz	110V AC @ 15 AMPS Single Phase 60 Hz	230V AC @ 30 AMPS 3-Phase 60 Hz	230V AC @ 30 AMPS 3-Phase 60 Hz
<b>MATERIAL OF CONSTRUCTION</b>	316 Stainless Steel, Powder Coated Aluminum	316 Stainless Steel, Powder Coated Aluminum	316 Stainless Steel, Powder Coated Aluminum	316 Stainless Steel, Powder Coated Aluminum
<b>USER INTERFACE</b>	Touchscreen PLC	Touchscreen PLC	Touchscreen PLC	Touchscreen PLC
<b>FLOW RATES</b>	Feed: 0.001-0.5L/min Buffer: 0.001-0.5L/min	Feed: 0.2-28L/min Buffer: 0.017-3L/min	Feed: 0.4-42L/min Buffer: 0.2-28L/min	Feed: 2.5-120 L/min Buffer: 0.2-28L/min
<b>PUMP HEAD MATERIAL</b>	Polypropylene	Polypropylene	Polypropylene	Polypropylene
<b>STANDARD INTEGRATIONS</b>	2 Mettler Toledo Scales/Load Cells 3 Single Use Pressure Sensors (Customer Specific) 2 Single Use Flow Sensors (Customer Specific) Automated Back-Pressure Control Valve	2 Mettler Toledo Scales/Load Cells 3 Single Use Pressure Sensors (Customer Specific) 2 Single Use Flow Sensors (Customer Specific) Automated Back-Pressure Control Valve	2 Mettler Toledo Scales/Load Cells 3 Single Use Pressure Sensors (Customer Specific) 2 Single Use Flow Sensors (Customer Specific) Automated Back-Pressure Control Valve	2 Mettler Toledo Scales/Load Cells 3 Single Use Pressure Sensors (Customer Specific) 2 Single Use Flow Sensors (Customer Specific) Automated Back-Pressure Control Valve
<b>FOOTPRINT</b>	24" L x 17" W x 14" H *Including Pump Heads*	29" L x 19" W x 17" H *Including Pump Heads*	38" L x 22" W x 23" H *Including Pump Heads*	40" L x 24" W x 23" H *Including Pump Heads*



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**Get In Touch**

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