

FLOWMAXX PRO

Single-Use & Multi-Use Integrated Smart Pumps



Our FlowMaxx Pro pumps were designed to work in tandem with our Quattroflow pump heads for both single-use and multi-use bioprocesses, allowing them to be calibrated for specific fluids.

With impeccable accuracy and software features such as sensor calibration, FlowMaxx Pro has increased versatility and the ability to integrate into a wide range of unique bioprocesses. Through the enlarged main screen, users have the option to run their pump in multiple modes including continuous, time dispense, volume dispense, and PID control – all of which can be accessed without having to log in. **The FlowMaxx Pro is the next generation of quaternary pumps.**

Our FlowMaxx Pro Pump range covers a flow rate from 1 mL to 360 L per min with the integration of sensors, a self-priming design, and advanced touch screen performance.



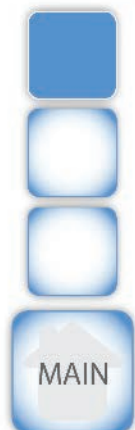
Available Models

- FlowMaxx Pro 30 - 1 mL to 500 mL/min
- FlowMaxx Pro 150 - 0.01 L to 3.8 L/min
- FlowMaxx Pro 1200 - 0.32 L to 27.4 L/min
- FlowMaxx Pro 2500 - 0.67 L to 54 L/min
- FlowMaxx Pro 4400 - 2.4 L to 128 L/min
- FlowMaxx Pro 20k - 16.67 L to 360 L/min

FLOWMAXX PRO₁₂₀₀

HNE HIGH PURITY
NEW ENGLAND

Control Scheme



Open Loop

Flow PID

Pressure PID

MAIN

Operating Mode



Continuous

Timed

Dispense

Prime

Operating Mode

Continuous

Control Scheme

Open Loop

Idle

Features

- Interchangeable heads in both single-use and stainless steel
- 6 different pumps available
 - Flow rates from 1 mL to 360L per min
- Single-use pump chambers can be supplied gamma irradiated and can be autoclaved
- Large HMI screen for ease of use
- Low pulsation
- No metal on metal contact
- High turndown ratio
- Self-priming
- Compact design with cleanable outer surface
- Pressure shut off
- Diaphragm failure notification
- Sensor alarm to avoid running pump while not connected to sensor
- Touch screen features,
 - Input flow rates in liters per minute
 - Priming feature
 - Calibration of sensor by end user
 - Dispense mode with totalizer
 - Calibration based on customer fluid
 - Ethernet communication for troubleshooting challenges

Benefits

- Low heat generation
- Quiet operation
- Lower life cycle cost
- Ease of use and quick start-up
- Scalable
- Low cell damage
- Low shear
- Walk away operation
- Minimal particle shedding
- Integration of flow and pressure sensors
- Integration of a free-standing or internal data logger
- Integration of scales
- PID control (Proportional integral derivative controller) - real time monitoring to maintain accuracy when monitoring flow and pressure



Applications & Uses

- Solutions containing proteins (albumin, IgG, clotting factors, monoclonal antibodies, enzymes, vaccines)
- Solutions of polymers or suspensions (silicon, latex, chromatographic media)
- Cell suspensions (bacteria, yeast, algae, fungi, mammalian cells)
- Colloidal solutions
- Suspensions of viruses or phage
- Lipid nanoparticle production

Certificates

- Elastomers (product wetted)
 - Single-Use Pump Heads: USP Cl. VI; FDA21CFR177; BSE/TSE Safe
 - Stainless Steel Pump Heads: USP Cl. VI; FDA21CFR177; BSE/TSE Safe
- Stainless Steel Parts (product wetted): 3.1; Surface Roughness; Ferrite Content



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Get In Touch

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