

BioDuo

Small | Smart | Specific

Elevating Bio Processing Excellence!



Made by Biopharma for Biopharma: We understand its criticality

As makers of recombinants and biosimilars, the BioDuo peristaltic pump is used at our own facility for upstream and downstream biopharma processes. It provides accuracy, repeatability and most importantly a failsafe solution for achieving zero downtime in applications where continuous fluid flow is of utmost importance.

Used across filtration, media transfer, dosing and final filling.

Avoid Shearing and Frothing

Our pump head offers gentle pumping action, that ensures no shearing of delicate biomolecules, prevents protein/cell denaturation and degradation, and gives consistent product quality. The gentle action also reduces frothing where mild detergents may be present in the transfer media.

Ideal for Fermentation and Critical transfer

BioDuo pump offers a clean, reliable, no shear and versatile solution with accuracy, precision and no contamination that are critical and crucial to maintain a clean and safe process for sterile and controlled conditions.



SMALL



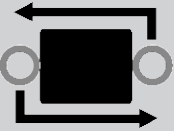
Free up space

With two pumps in one unit with one power cord, makes your lab space more structured and efficient.

2X

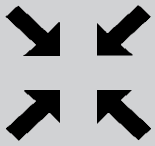
Double the Production

By combining the output of independent two heads, the pump can handle larger volumes, making it suitable for applications where a single head may be insufficient.



In-built Redundancy

If one head fails or requires maintenance such as tube replacement, the other head can take over the entire pumping duty without interruptions, eliminating any downtime associated with repairs and replacements.



Save precious clean room space

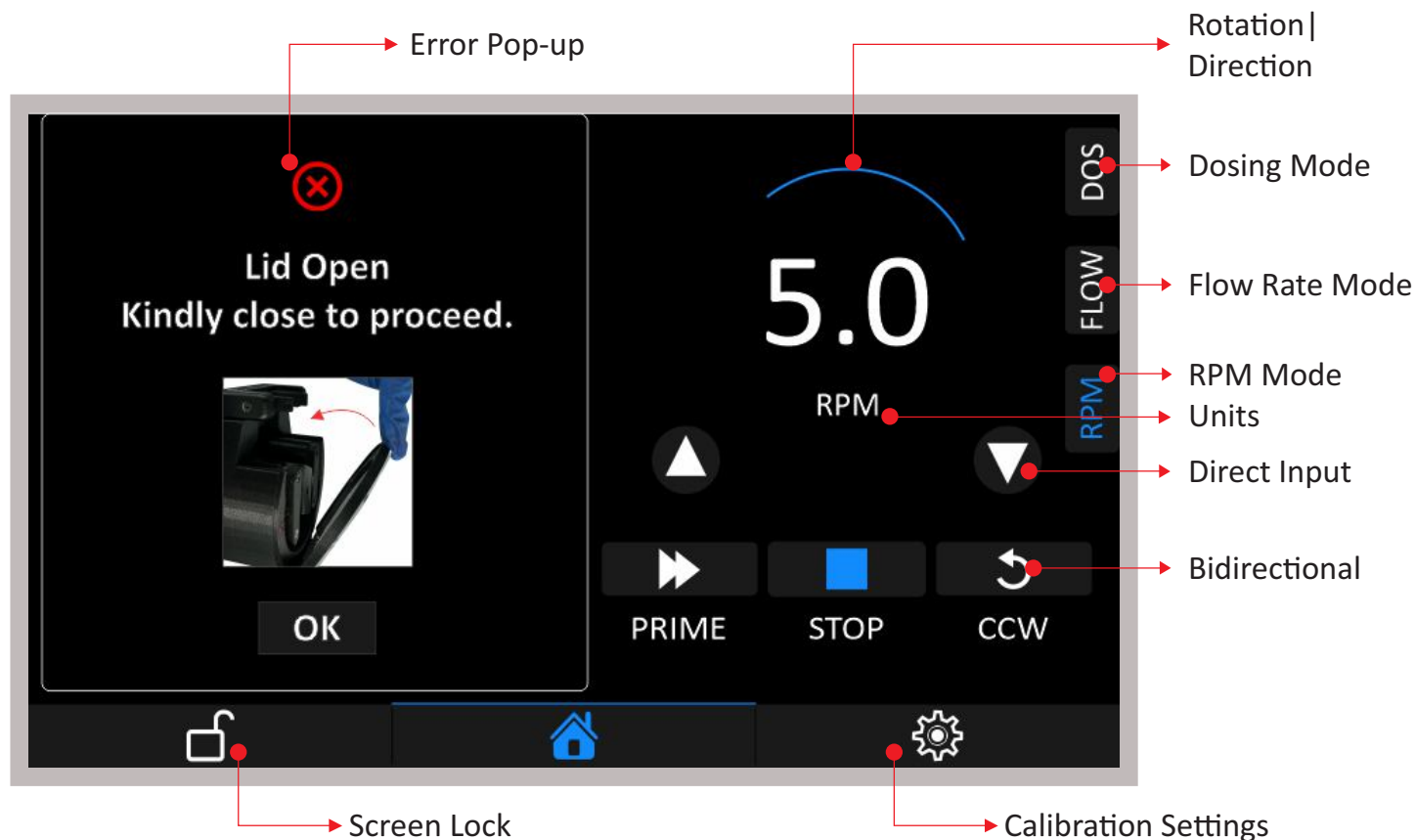
With a base area of less than a A4 size paper it offers significant space advantage and flexibility specially when multiple pumps are required for bio processing activities without compromise on functionality.



SMART

Intuitive Touch Screen: Better controls and in-built checks

The 4.3" (10.9 cm) capacitive IPS touch screen makes navigating the functions and configuration of pump settings effortless, even while wearing gloves. Digital display helps establish in-built controls and checks.



Visual Cues and LED Indicators

Onscreen indicators provide clear visual cues including bidirectional flow while LED indicator on top allows to quickly assess the pump's operational status at a glance from a distance. The pump also intimates errors using the LED lights and on-screen display.

Screen Lock

Avoid accidental control changes. Enhance security of operations and prevent accidental changes to settings by using the screen lock feature.

Sensor based safety lid

Open-Lid sensor feature does not allow operation of drive motor when pump head lid is open. This ensures operator safety and eliminates any accidental contact with rotating rollers during operations.

Zero Production Downtime

Second head as failsafe back-up: No more waiting for service engineers, no more delays

Uninterrupted liquid transfer operations: Designed for continuous and long operations

Run projects concurrently: Enable second head on different pump during downtime

Alternating head use: Longer pump life across multiple shifts.



SPECIFIC



Enable Anti-slip: No more tube sliding

The pump features anti-slip teeth on the clamps. Touch screen guides user to enable anti-slip before start.

Auto-Calibration

Simplified user-friendly instructions and intuitive control, ensures calibration is accurate and precise, eliminating the guesswork and streamlining your bio processing workflow.

CE and IP31

Designed as per CE rating and IP31 ingress protection, the pump assures high quality standards and rigorous testing that safeguards the internal components and maintains optimal performance.

2 Bar pressure

BioDuo maintains ~2-bar pressure across the tube, that provide precise volume dispense ensuring ideal processing conditions for continuous run and reproducible results. Ideal for various viscosities and densities.

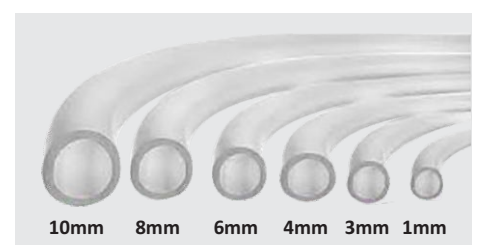
Technical Parameter

Control Range (turndown ratio)	0 - 200 RPM
Power Supply DC input	12V 25W
Enclosure Design	IP31 (Equivalent to NEMA 2)
Tubing options	Silicon Tubing only
Operating Temperature	5°C to 40°C
Weight	5 kg
Noise	< 60dB(A)

Flow Rate

	Min	Max
Head 1	0.01mL/min	200mL/min
Head 2	0.5mL/min	1200mL/min

Tubes





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