

BioDuo[®] High Flow

High Throughput with Repeatability



RESOLVE

SMALL | SMART | SPECIFIC

Why BioDuo?

High Flow series of pumps are used for transfer, filtration & dosing with high flow rates of up to 3500mL/min. High Flow series of pumps can be used in applications like Fluid Transfer, Buffer media filling, culture media filing, fermentation, harvesting cell media, purification, filtration, metering, dosing, dispensing, liquid filling, tablet coating, etc.

ZERO PRODUCTION DOWNTIME

- Second head as failsafe, no more delays due to service calls.
- Designed for continuous & long operations.

CONCURRENT PROJECTS

- Run 2 projects concurrently using 2 independent heads on the same pump.
- Both heads can have various settings & can be run in parallel.



IDEAL FOR FERMENTATION

- BioDuo pump offers a clean, reliable, no shear & versatile solution with accuracy.
- Seamless aseptic transfer of media to maintain a clean & safe process for sterile & controlled conditions.

BioDuo 2L / 3.5L High Flow pump heads for continuous tubing
Tube bore and flow rate (mL/min), 1.6mm Wall thickness

Speed RPM	3 mm	4 mm	5 mm	6 mm	8 mm	9 mm	9.5 mm
0.1 - 200	0.5 - 295	0.5 - 540	0.5 - 700	0.5 - 935	0.8 - 1600	1 - 1900	1.5 - 2000
0.1 - 375	0.5 - 550	0.5 - 1000	0.5 - 1300	0.5 - 1750	0.8 - 3000	1 - 3500	1.5 - 3600

SMALL, SMART & SPECIFIC

*Made by Biopharma for Biopharma:
We understand its criticality*

Available Modes
RPM, FLOW & DOS

EXTERNAL CONTROL
BioDuo High Flow Series comes with Analog and Digital ports to control the pumps externally.

HIGH SPEED FILING
Dispenses higher flow rates of up to 3.5LPM. (used in high speed vial filling).

PROGRAMMABLE
BioDuo High Flow Series comes with 100 profiles to save calibration settings of up to 200 liquids



APPLICATIONS



FILTRATION

Used in filtration for upstream & downstream process.



MIXING

Both heads can be programmed to mix two liquids.



SAMPLING

Aseptic nature makes it best choice for sampling for sewage analysis.



CULTURE MEDIA & BUFFERS

Used for preparing & dispensing culture media, buffers and other solutions in Lab.

TECHNICAL SPECIFICATIONS

OVERVIEW	
3 Dispensing Modes	✓
Traceability (with Bluetooth Printer)	✓
High Accuracy, High Flow	✓
SPECIFICATIONS	
Volume Dispensed in Dose & Multi-Dose mode	From 0.1mL with Step Size of 0.1mL
Volume Dispensed in Dose on Weighing Scale	50 g to 10 kg
Weighing Resolution	1 g
Weighing resolution up to 200g	100g: ± 0.15%
Accuracy range of weighing scale	±1% at 150 RPM
Dispensing modes	Continuous, Multidose, Dose on Scale
Number of customizable programs	100
Multi-dose pause	Adjustable from 1 min to 24 hours
Operating Temperature	5°C to 40°C
Enclosure Design	IP31 (Equivalent to NEMA 2)
TRACEABILITY	
Traceability	3 Level Logins, dose time, dose volume, liquid name
Connections	RS-232, 4-20mA, 0-10V Bluetooth
WEIGHT AND DIMENSIONS	
Dimensions (L x W x H)	294 mm x 171 mm x 186 mm
Net weight	5 kg
Box dimensions (w x d x h)	14 x 12 x 13 inches
Gross weight	~8 kg

Delivered with 2 Resolve® HighFlow Heads,
1 user manual, 1 Power Adapter



Product made by
Resolve Biotech an
ISO13485 Certified Indian Company



ID: 3.0 mm to 9.5 mm

Wide range of tubings
From 3.0 mm to 9.5 mm to adapt
flow/accuracy to all your
applications.



Traceability
All distribution parameters
are Printable using
Bluetooth Printer.

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