

BioDuo[®] Pro Series

Engineered for the Demands of Biopharma Manufacturing



RESOLVE 

COMPACT | CLEAN | COMPLIANT

Why BioDuo?

The BioDuo Pro Series is a dual-channel peristaltic pump designed specifically for the stringent needs of biopharmaceutical production. Featuring two independently controlled pump heads in a single compact housing, it delivers precision, efficiency, and space-saving performance. Pro-Series of pumps can be used in applications like fluid transfer, buffer media filling, culture media fermentation, harvesting cell media, purification, filtration, metering, dosing, dispensing, liquid filling, 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 different parameter settings and can run parallelly



IDEAL FOR FERMENTATION

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

BioDuo 4L Pro							
Tube ID 1.6mm wall thickness	3 mm	4 mm	5 mm	6 mm	8 mm	9 mm	9.5 mm
mL per min @ 0.1 to 385 rpm	0.5 - 550	0.5 - 1000	0.5 - 1300	0.5 - 1750	0.8 - 3000	1 - 3500	1.5 - 3600
Tube ID 2.4 mm wall thickness	4.8 mm	6.4 mm		7.9 mm		9.6 mm	
mL per min @ 0.1 to 385 rpm	0.5 - 1100	0.5 - 1800		0.8 - 2700		1.5 - 4000	

COMPACT, POWERFUL & PHARMA-READY

Available Modes

RPM, FLOW & DOS

HIGH SPEED FILLING

Dispenses higher flow rates of upto 3.5LPM (used in high speed vial filling).

DELAYED START/STOP

BioDuo can configured to have a delayed start/stop using custom functions feature

EXTERNAL CONTROL

BioDuo Pro Series comes with Analog and Digital ports to control the pumps externally.

PROGRAMMABLE

BioDuo Pro Series comes with 100 profiles to save calibration settings of up to 200 liquids

TIME DISPENSING

BioDuo comes with time dispensing functions to enable repeated and quantitative dispensing



316L Stainless Steel Matters in Bio-Pharma

Bio-Pharmaceutical manufacturing demands more than just precision—it demands purity and compliance.

SS316L Benefits in BioDuo Pro Series



Long-Lasting Durability

Resists chemical, thermal, and mechanical stress



Electropolished Surface Finish

Enhances cleanability, meets hygienic standards



Low Carbon Content

Minimizes contamination risk in sterile processes



Superior Corrosion Resistance

Ideal for cleanroom and GMP environments



Regulatory Compliance

Compatible with FDA, USP Class VI and cGMP guidelines



Temperature Resistance

SS316L is resistant to extremes of temperatures even for long hours

TECHNICAL SPECIFICATIONS

OVERVIEW	
3 Dispensing Modes	✓
Traceability (with Bluetooth Printer)	✓
High Accuracy, High Flow	✓
SPECIFICATIONS	
Pump Heads	2 Independent Channels
Material	Housing: SS316L
RPM Range	0.1 - 385 RPM
Flow Rate Range	0.5 mL/min - 4L/min
Control Modes	Manual, Analog, RS-232
Display	Touchscreen Interface
MultiDose Mode	Programmable Dosing Available
Tubing Materials	Silicone
Drive Type	Brushless Stepper Motor
Operating Voltage	36V 3A
Certifications	GMP, ISO 13485, ZED Compliant
TRACEABILITY	
Traceability	3 Level Logins, dose time, dose volume, liquid name
Connections	RS-232, 4-20mA, 0-10V
WEIGHT AND DIMENSIONS GROSS	
Dimensions (L x W x H):	240mm x 160mm x 180mm
Weight	6 Kg
IP Rating	IP31 Compliant

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

Product made by
Resolve Biotech Pvt Ltd



Wide range of tubings
From 3mm to 9.5mm to adapt
flow/accuracy to all your applications.



Traceability
All distribution parameters
are Printable using
Bluetooth Printer.

Suitable with International Tube Sizes:							
#16	#25	#17	#18	#15	#24	#35	#36
1.6 mm thickness				2.4 mm thickness			



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