



520Di/L

Dispensing and Transfer Pump Digital/Auto/Manual Control IP31 Wipedown Enclosure

Technical Information and Features

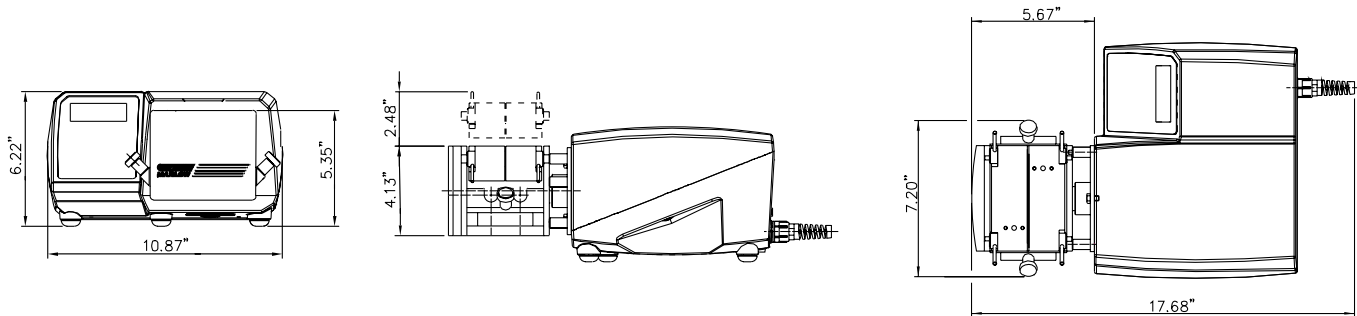
- Flow rates from 0.007 to 4400 mL/min (0.0001-69.7 gph) and dispensing accuracy of $\pm 0.5\%$ or better
- Discharge pressures up to 30 psi
- Operator friendly keypad offering:
 - Dose mode with easy programming of: Dispense, dispense interval, batch size, interval, speed, ramp of start and/or finish, suck back (anti-drip function)
 - Easy on the fly calibration by weight or volume allowing dose recalibration without batch interruption
 - Dose program storage: Ability to store up to 50 dispensing programs
 - Manual mode for fluid transfer with: Start/stop, direction, and speed control from 0.1 - 350 rpm in 0.1 rpm increments
 - Easy navigation through menu via up/down arrows through 4 lines of text with on-screen help
 - Large clear LCD display during dose with accurate digital monitoring for batch progress indicating program name, number of doses completed and remaining. Display can also toggle from rpm or flowrate (with choice of 10 vol or 10 mass flow units)
 - Option of security code protection for set functions, with a higher level to safe guard dispensing and calibration values
- Flow totalizer, auto re-start, speed limit setting, date/time functions also available
- Remote control interface offering:
 - Outputs: 4 configurable status outputs with choice of run/stop, direction, leak detected, network/manual, dose, batch or general alarm
 - Inputs: 24V industrial logic, 5VTTL or dry contact for run/stop, pause dispense, direction, leak detected, and dose input
 - RS232 control interface, allowing computer display and networking of multiple drives
 - Dispense initiation via footswitch, handswitch, or other remote device
- Tough metal and ABS case with broad chemical resistance and IP31 enclosure
- Quiet, continuous duty and maintenance free closed loop microprocessor controlled brushless DC motor
- Equipped with 505L low inertia 6-roller pumphead with twin offset spring loaded tracks for ultra low pulse flow when used with Y tubing elements
- Optional in-phase track and tube clamps allow two individual channels of flow or double flow with optional 505LX extension pumphead
- Optional pumpheads include 520R/520R2 twin-sprung roller, 505CA low-flow multi-channel and 313D/314D easy loading flip top

Flow Rate Ranges (ml/min) and Minimum Recommended Dispense Sizes (ml)

2.4 mm Thick Wall Tube #	105	108	119	120	15	24	121	122
1.6 mm Thin Wall Tube #	112	13	14	16	25	17	18	N/A
	1/50"	1/32"	1/16"	1/8"	3/16"	1/4"	5/16"	3/8"
Speed range	0.5mm	0.8mm	1.6mm	3.2mm	4.8mm	6.4mm	8.0mm	9.6mm
0.1 to 350rpm	0.007-24.6	0.02-73.8	0.04-150	0.23-800	0.42-1500	0.70-2500	0.90-3200	1.3-4400
Min. Dispense size	0.14	0.42	0.86	4.55	8.41	14.0	18.0	25.0

* 1 gal = 3785.4 ml

Note: When using two individual channels, flow (and dispense size) per channel is half that shown.



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Technical Specifications

Shipping Weight: 33 lbs

Maximum Power Consumption: 135 VA

Supply: 100-120/200-240V, 50-60Hz (voltage selectable)

Maximum Rotor Speed: 350 RPM

Enclosure: IP31

Operational Temperature Range: 5°C to 40°C

Noise: max 70dBA at 1 meter

Standards

Meets all applicable CE and American ETL Standards
UL610101A-1

Product Codes

520Di Drive, 350 rpm 056.7171.00A

Complete 520Di/L 050.7171.5LA

505L Pumphead (offset track) 053.4001.000

For metering or dispensing through two independent channels:

505L Pumphead (in-phase track) 053.4001.0**

505L Tube Clamp Set 059.4001.000

Materials of Construction

Pumphead

Track and Body: Aluminum polyurethane coated, stainless steel cam mechanism

Rotor: Aluminum endplates, stainless steel rollers

Drive

Casework: Pressure die-cast Aluminum LM24

Coating: Alocrom Pre-treatment, exterior grade polyester powder coat

Keypad: Polyester

Feet: Santoprene

Switch Plate: Glass filled ABS plastic

Rear Blanking Plate: Stainless steel 304

Gearbox nose: Aluminum LM24M

Drive Shaft: Electroless nickel plated carbon steel

Available Tubing Materials:

Tubing Y-elements (2.4mm wall thickness)

Platinum-cured Silicone (0.5 mm - 9.6 mm ID)

Bioprene®/Marprene® (1.6 mm - 9.6 mm ID)

Sta-Pure™/Chem-Sure™ (1.6 mm - 8.0 mm ID)

Continuous tubing (2.4mm wall thickness)

Platinum-cured Silicone (0.5 mm - 9.6 mm ID)

Bioprene®/Marprene® (1.6 mm - 9.6 mm ID)

Sta-Pure™/Chem-Sure™ (1.6 mm - 8.0 mm ID)

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