

LabN Series/BT-N Series Technical Specifications

| | | | |
|------------------------------|---|--|--|
| Flow rate range | LabN1: 0.000166~570 mL/min | Keypad lifetime | 300,000 times |
| | LabN3: 0.000166~1330 mL/min | External speed control signal | 0-5V, 0-10V, 4-20mA for option |
| | LabN6: 0.000166~2280 mL/min | Start/stop, reversing signal | Passive switch signal, such as foot pedal |
| | BT100N: 0.000829~570 mL/min | | Active switch signal: 5V,12V,24V for option |
| | BT300N: 0.000829~1330 mL/min | Communication interface | RS232, RS485 support Modbus protocol(RTU mode) |
| BT600N: 0.000829~2280 mL/min | Output interface | LabN Series: Output motor working status (Open-Collector output) | |
| Speed resolution | LabN Series :0.1rpm; BT-N Series: 0-100rpm, 0.1rpm; 100-600rpm, 1rpm | Power supply | AC 220V±10% 50Hz/60Hz (standard) AC 110V±10% 50Hz/60Hz (optional) |
| Back suction angle | LabN Series: 0-360° | Drive dimension | LabN Series: 261.4×157.3×236.9mm BT-N Series: 183×131×194mm |
| Testing time range | LabN Series: 0.1 s-9999 h BT-N Series: 0.5 s-999 s | Drive weight | LabN Series: 4.40 kg BT-N Series: 4.20 kg |
| Outlet pressure | 0.86~1.0 mm wall thickness tubing: 0.1Mpa; 1.6~2.4mm wall thickness tubing:0.1~0.27Mpa | Power consumption | < 50W |
| Display | LabN Series: 3.2" high definition LCD screen | Condition temperature | 0-40°C |
| | BT-N Series: LED Display | Relative humidity | < 80% |
| Control method | Mechanical keypad | IP rate | IP31 |

LabN Series/BT-N Series Product Composition and Flow Rate Range

| Standard Peristaltic Pump | | Pump Head & Flow Rate (mL/min) | | | |
|---------------------------|------------|-------------------------------------|-----------|---|--|
| | | YZ1515x | YZ2515x | MC1~MC12(10) | MC1~MC12(6) |
| Drive & speed | Tubing | 13", 14", 19", 16" 25", 17", 18" | 15", 24" | Inner diameter: 0.13-3.17mm Wall thickness: 0.86-1mm | |
| | LabN1 | 0.1-150rpm | 0.007~570 | 0.17~435 | |
| LabN3 | 0.1-350rpm | 0.007~1330 | 0.17~1015 | 0.000166-49(suggestion working speed≤150rpm) | 0.000185-65(suggestion working speed≤150rpm) |
| LabN6 | 0.1-600rpm | 0.007~2280 | 0.17~1740 | | |
| BT100N | 0.5-150rpm | 0.035~570 | 0.85~435 | | |
| BT300N | 0.5-350rpm | 0.035~1330 | 0.85~1015 | 0.000829-49(suggestion working speed≤150rpm) | 0.000925-65(suggestion working speed≤150rpm) |
| BT600N | 0.5-600rpm | 0.035~2280 | 0.85~1740 | | |



LabN Series Membrane Functions



Standard Peristaltic Pump



Features

- Servo motor drive, powerful and maintenance-free.
- 3 digital LED display motor speed, rotary encoded switch control.
- Suitable for industrial sites, transfer liquid with large flow and high precision.

Model Number

- N6-3L/DZ25-3L
- N6-6L/DZ25-6L
- N6-12L/YZ35

Technical Specifications

| | | | |
|-------------------------------|--|-------------------------|---|
| Flow rate range | N6-3L: 0.211~3600 mL/min N6-6L: 0.3~6000 mL/min N6-12L: 0.00069~12 L/min | Communication interface | RS232(standard), Shenchen-N232 Communication protocol; RS485(optional), Modbus protocol(RTU mode) |
| Speed range | 0.1-600 rpm | Power supply | AC 220V±10% 50Hz/60Hz (standard) AC 110V±10% 50Hz/60Hz (optional) |
| Speed resolution | 0-100rpm, 0.1rpm; 100-600rpm, 1rpm. | Drive dimension (L×W×H) | N6-3L: 223×152×168mm N6-6L: 283×192×218mm N6-12L: 302×222×275mm |
| Flow rate accuracy | ±0.5% | Drive weight | N6-3L: 5.02kg; N6-6L: 7.85kg N6-12L: 13.14kg |
| Outlet pressure | 0.3Mpa | Power consumption | N6-3L: <80W; N6-6L: <180W N6-12L: <300W |
| Motor type | Servo motor | Condition temperature | 0-40°C |
| Display | 3 digital LED | Relative humidity | <80% |
| Control method | Mechanical keypad | IP rate | IP31 |
| Keypad lifetime | 300,000 times | | |
| Speed control | Rotary encoded switch | | |
| Start/stop, direction signal | Passive switch signal, such as foot pedal Active switch signal: 24V default | | |
| External speed control signal | 0-5V(standard), 0-10V, 4-20mA(optional) | | |

Product Composition and Flow Rate Range

| Drive | Motor Type | Pump Head | Tubing Size | Speed Range | Flow Rate(mL/min) |
|--------|-------------|-----------|--------------------|---------------|-------------------|
| N6-3L | Servo Motor | DZ25-3L | 15", 24", 35", 36" | 0.1-600 (rpm) | 0.211~3600 |
| N6-6L | | DZ25-6L | 15", 24", 35", 36" | | 0.3~6000 |
| N6-12L | | YZ35 | 26", 73", 82" | | 0.69~12000 |

