


P Peristaltic Pumps

Model: BT1001L, Flow Rate Peristaltic Pump, 0.05 to 500 mL/min

The max. output torque of BT1001L drive is 2 Nm. Multi pump heads are available. The pump provides flow rates from 0.05 to 500 mL/min. 128x64 graphic LCD displays running menus and parameter setting menus. The flow rate & the speed (rpm) can be displayed in the same screen. The display interface is friendly. It has flow rate calibration function to make the flow rate more accurate. 



The external control can be realized through standard external interface or RS485 communication interface.


Functions and Features

- Display can switch between flow rates and rpm
- Calibration capability for more accurate flow rate
- Graphic LCD together with rotary coded switch makes it friendly and easy to use
- Higher torque to accept more pump heads and more channels
- RS485 communication interface available. Offering communication protocol to customer and customizing software according to customer's requirements.

Specifications:

Speed: 1.0 to 100.0 rpm, reversible Speed precision: 0.1 rpm
 Speed control: Rotary coded switch coupled with membrane keypad
 Display: 128 x 64 graphic LCD displays current running status
 Analog interface: Start/stop and cw/ccw control, 0 to 5 V, 0 to 10 V, and 4 to 20 mA speed control
 Communication interface: RS485
 Power supply: AC 220V ± 10% 50/60 Hz (standard)
 AC 110V + 10% 50/60 Hz (optional)
 Power consumption: <50W
 Operating condition: Temp. 0 to 40°C Relative humidity < 80%
 Dimensions (L x W x H): 202 x 160 x 239 (mm)
 Drive weight: 5.34 kg IP rating: IP 31

Model: LEAD1, Basic Peristaltic Pump, 0.001 to 300 mL/min

Acceptable pump heads for Lead1 are 24, 28, 48 and max. 4 channels are available. The pump provides flow rates from 0.001 to 300 mL/min for one channel. The motor of the drive is step motor. It adopts microprocessor controlled stepper motor and microstepping electrical circuit to make the running smoother and noise smaller. There are start/stop, speed control and direction membrane keypads on the front panel. 




Functions and Features

- Accept three special pump heads: 28, 48 and 24
- Planetary gearbox is adopted in its pump heads. This changes the traditional driving methods of tubing pumps, decreases abrasion, prolongs tubing life and improves accuracy.
- 28 & 48 pump heads are equipped with comb-shaped tube-holder. Suitable for small flow rates and multi-channel fluid transfer.
- 24 pump head is equipped with V-shaped tube-holder and accept bigger size tubing.
- Equipped with overflow device to prevent overflow fluids from damaging the inner parts.
- Prime key for fast filling and emptying

Specifications:

Speed: 0 to 100 rpm, reversible Speed precision: 0.1 rpm
 Speed control: Membrane keypad
 Display: LCD displays current running status
 Analog interface: Start/stop and cw/ccw control and speed control (0 - 5V, 0 - 10 V, 4 to 20mA)
 Power supply: AC 220 V ± 10% 50/60 Hz (standard)
 AC 110 V ± 10% 50/60 Hz (optional)
 Power consumption: < 30 W
 Operating condition: Temp. 0 to 40°C Relative humidity < 80%
 Dimensions: 176x150x278(mm) IP rating: IP 31

Model: BT3001F, Dispensing Peristaltic Pump, 0.07 to 1140 mL/min

The applicable pump treats for BT3001F are YZ1515x YZ2515x YZ1115 YZ1125 The pump delivers Flow rates from 0.07 to 1140 ml/min 128 x 64 graphic LCD displays running menus and parameter Setting menus The display interfaces are friendly. It has many control modes. The external control can be realized through standard external control interface or 485 communication interface 




Functions and Features

- Applicable pump heads YZ1515x YZ2515x, YZ1115, YZ1125
- Set pause time to realize dispensing and filling automatically
- Display can switch between flow rates and rpm
- Calibrate setting flow rates to acquire more accurate flow rates
- RS485 communication interface available. Offering communication protocol to customer and customizing software according to customer's requirements.

Specifications:

Speed: 1.0 to 300.0 rpm, reversible Speed precision: 1 rpm
 Speed control: Rotary coded switch coupled with membrane keypad
 Display: 128 x 64 graphic LCD displays flow rate speed or dispensing
 Copy number 1 to 999
 Dispense volume 0.1 ml to 99.9L
 Pause time 1 to 999s
 Back suction angle 0 to 360 18° increments
 Analog Interface Start-stop and cw/ccw control, 0 to 5 V, 0 to 10 V, and 4 to 20 mA speed control
 Communication interface: RS485
 Power supply: AC 220V ± 10% 50/60 Hz (standard)
 AC 110V + 10% 50/60 Hz (optional)
 Power consumption: <50W
 Operating condition: Temp. 0 to 40°C Relative humidity < 80%
 Dimensions (L x W x H): 202 x 160 x 239 (mm)
 Drive weight: 4.3 kg IP rating: IP 31

Model: LEAD2, Flow Rate Peristaltic Pump, 0.01 to 350 mL/min

The applicable pump heads for Lead2 are Lead1 5-48, Lead1 5-88, Lead1 5-24, Lead15-44 and max. 8 channels are available. The pump delivers flow rates from 0.01 to 350 mL/min. It has flow rates display and flow rates calibration functions. It also has functions of speed adjustment, start/stop, cw/ccw, prime (rinsing), tubing selection, 485 communication, analog control, etc. 



Functions and Features

- Accept 4 special pump heads.
- Planetary gearbox is adopted in its pump heads. This changes the traditional driving methods of tubing pumps, decreases abrasion, prolongs tubing life and improves accuracy.
- Display can switch between flow rates and speed.
- Calibration function for more accurate flow rates
- Computer control available through RS485 communication
- Prime key for fast filling and emptying

Specifications:

Speed: 1.0 to 100.0 rpm, reversible Speed precision: 0.1 rpm
 Speed control: Rotary coded switch coupled with membrane keypad
 Display: 128x32 graphic LCD displays current running status
 Analog interface: Start/stop and cw/ccw control, 0 to 5V, 0 to 10V, and 4 to 20mA speed Control
 Communication: RS485
 Power supply: AC 220V ±10% 50/60 Hz (standard)
 AC 110 V ± 10% 50/60 Hz (optional)
 Power consumption: < 30 W
 Operating condition: Temp. 0 to 40°C Relative humidity < 80%
 Dimensions (LxWxH): 190x162x275(mm)
 Drive weight: 3.5 kg IP rating: IP 31

Model: BT501J, Basic Peristaltic Pump, 0.005 to 10mL/min

Acceptable pump heads are JY10 & D61x. The pump provides flow rates from 0.005 to 10mL/min. It can realize speed adjusting and direction changing and has functions of prime and external start/stop. It features compact size & easy to operate.



Functions and Features

- Applicable pump heads: JY10 and DGtx (10 rollers)
- Prime key for fast filling and emptying
- Speed, start/ stop and direction can be controlled through membrane keypad or through external Control interface
- Memory function, storing the running parameters automatically
- Compact size, light weight and low power consumption
- Membrane keypad, easy to operate
- Good performance and low price
- At normal lab conditions

Specifications:

Speed: 0.1 to 50.0 rpm, reversible
 Speed precision: 0.1 rpm
 Speed control: Membrane keypad
 Display: 3-digit LED displays current rpm
 Analog interface: Start/stop and cw/ccw control
 Power supply: AC 220V ±10% 50/60 Hz (standard)
 AC 110V ±10% 50/60 Hz (optional)
 Power consumption: < 10 W
 Operating condition: Temperature 0 to 40°C,
 Relative humidity < 80%
 Dimensions (LxWxH): 176x110x115 (mm)
 Drive weight: 2.2 kg IP rating: IP 31

Pump Head	Flow Rates (mL/min)	Tubing	Weight (Kg)
JY10	0.05-10	0.5x0.8 1x1	2.4
DG1x (10 Rollers)	0.005-10	2x1 2.4x0.8	

Model: BT3002J, Basic Peristaltic Pump, 0.07 to 1140mL/min

Acceptable pump heads for BT3002J are YZ1515X, YZ2515x, YZII15, YZII25, BZ25. The pump delivers flow rates from 0.07 to 1140 mL/min. The speed can be adjusted manually or automatically through external control interface. Store the running parameter automatically. Easy to operate.



Functions and Features

- Applicable pump heads: YZ1515x, YZ2515x, YZII15, YZII25, BZ25 Prime button for fast filling and emptying
- Adjust speed manually or automatically through analog interface.
- Memory function, storing the running parameters automatically Equipped with Longer Dispensing Controller for filling function
- At normal lab conditions

Specifications:

Speed: 0.1 to 50.0 rpm, reversible
 Speed precision: 0.1 rpm
 Speed control: Membrane keypad
 Display: 3-digit LED displays current rpm
 Analog interface: Start/stop and cw/ccw control
 Power supply: AC 220V ±10% 50/60 Hz (standard)
 AC 110V ±10% 50/60 Hz (optional)
 Power consumption: < 10 W
 Operating condition: Temperature 0 to 40°C,
 Relative humidity < 80%
 Dimensions (LxWxH): 176x110x115 (mm)
 Drive weight: 2.2 kg IP rating: IP 31

Model: BT1001J, Basic Peristaltic Pump, 0.05 to 290mL/min

Acceptable pump heads for BT1000 are YZ1515x, YZ2515x, YZ1515w, DG1x & D62x. The pump provides flow rates from 0.05 to 290 mL/min (single channel). The speed can be adjusted manually or automatically through external control interface. Store the running parameters automatically. Easy to operate.



Functions and Features

- Applicable pump heads: YZ1515x, YZ2515x, YZII15, YZII25, OG1x, DG2x
- Prime key for fast filling and emptying
- Adjust speed manually or automatically through analog interface.
- Memory function, storing the running parameters automatically
- Membrane keypad, easy to operate
- Good performance and low price
- At normal lab conditions

Specifications:

Speed: 0.1 to 100 rpm, reversible Speed precision: 0.1 rpm
 Speed control: Membrane keypad
 Display: 3-digit LED displays current rpm
 Analog interface: Start/stop and cw/ccw control
 0-5 V, 0-10 V, and 4-20 mA speed control
 Power supply: AC 220V ±10% 50/60 Hz (standard)
 AC 110V ±10% 50/60 Hz (optional)
 Power consumption: < 22 W
 Operating condition: Temp. 0 to 40°C, Relative humidity < 80%
 Dimensions (LxWxH): 212x112x142 (mm)
 Drive weight: 2.8 kg IP rating: IP 31

Pump Head	Tubing	Flow Rates (mL/min)	Weight (Kg)
YZ1515x, YZII15	13*, 14*, 19*, 16*, 25*, 17*	0.07-290	3.5
YZ2515x	15*	1.7-170	3.5
YZII25	15*	1.7-170	3.5
DG1x (6 Rollers)	0.5x0.8 1x1	0.06-30	3.0
DG1x (10 Rollers)		0.05-20	3.0
DG2x (6 Rollers)	2x1 2.4x0.8	0.06-30 (Per Channel)	3.1
DG2x (10 Rollers)		0.05-20 (Per Channel)	3.1

Model: BT00300T, Basic Peristaltic Pump, 0.005 to 1140mL/min

Acceptable pump heads for BT00300T are YZ1515x, YZ2515x, YZII15, YZII25, DG4x. The pump delivers flow rates from 0.005 to 1140 mL/min. The speed can be adjusted manually or automatically through external control interface. It can be equipped with FK-1C dispenser for filling function. Store the running parameter automatically. Easy to operate.



Functions and Features

- Applicable pump heads: YZ1515x, YZ2515x, YZII15, YZII25, D64x
- High torque and low power consumption Timing Function, realizing simple auto-dispensing and filling
- Half-current locking function Memory function, storing the running parameters automatically
- At normal lab conditions

Specifications:

Speed: 0.1 to 100 rpm, reversible Speed precision: 0.1 rpm
 Speed control: Membrane keypad
 Display: 3-digit LED displays current rpm
 Analog interface: Start/stop and cw/ccw control
 0-5 V, 0-10 V, and 4-20 mA speed control
 Power supply: AC 220V ±10% 50/60 Hz (standard)
 AC 110V ±10% 50/60 Hz (optional)
 Power consumption: < 22 W
 Operating condition: Temp. 0 to 40°C, Relative humidity < 80%
 Dimensions (LxWxH): 212x112x142 (mm)
 Drive weight: 2.8 kg IP rating: IP 31

P Peristaltic Pumps & Vacuum Pumps

Model: ZT6001J, Basic Peristaltic Pump, 4.2 to 6000 mL/min

Applicable pump heads for ZT6001J are YZ1515x, YZ2515x, YZ1115, YZ1125, & KZ25. The pump delivers flow rates from 4.2 to 6000 mL/min. The speed can be adjusted manually or automatically through external control interface. Driven by DC motor the ZT60-600a runs steady and has higher torque. It can drive double pump heads (YZ1515x/YZ2515x). ZT6001J is ideal for industrial application and easy to operate.

Specifications:

Speed: 60 to 600 rpm, reversible
 Speed control: 10-turn potentiometer
 Display: 3 - digit LED displays current rpm
 Analog interface: N/A(Standard Configuration)
 Power supply: AC 220V ±10% 50/60Hz
 Power consumption: < 80W
 Operating condition: Temp. 0 to 40°C Relative humidity <80%
 Dimensions (LxWxH): 280x200x180(mm)
 Drive weight: 6.5 kg IP rating-IP 31

Functions and Features

- Applicable pump heads: YZ1515x, YZ2515x, YZ1115 YZ1125, & KZ25
- Stack two pump heads & connect the two outlets together with a Y-connector, then flow rates doubled, pulsation reduced enormously (as shown in the graph below) and fluid transfer smoother.
- DC motor, stepless speed control has stronger drive
- Smooth flow and high torque
- Prime button for fast filling and emptying
- Suitable for higher pressure fluid transfer



Model: RK-410/610, Oil Free Vacuum Pumps



RK-410



RK-610



Specification:

Power	RK-410		RK-610		
	110-120V/60Hz	220-240V/50Hz	110-120V/60Hz	220-240V/50Hz	
Max. power consumption (W)	100	80	210	190	
Max. current (A)	1.0	0.4	1.9	1	
Max. vacuum	-750mmHg=99.99kPa=10torr		-750mmHg=99.99kPa=10torr		
Vacuum	0mmHg	22l/min=0.78CFM	19l/min=0.67CFM	35l/min=1.24CFM	33l/min=1.17CFM
	100mmHg	21l/min=0.74CFM	18l/min=0.64CFM	33l/min=1.17CFM	30l/min=1.06CFM
	200mmHg	18l/min=0.64CFM	16l/min=0.57CFM	29l/min=1.02CFM	27l/min=0.95CFM
	300mmHg	16l/min=0.57CFM	14l/min=0.49CFM	27l/min=0.95CFM	25l/min=0.88CFM
	400mmHg	14l/min=0.49CFM	11l/min=0.39CFM	23l/min=0.81CFM	20l/min=0.71CFM
	500mmHg	11l/min=0.39CFM	9l/min=0.32CFM	17l/min=0.6CFM	14l/min=0.49CFM
600mmHg	8l/min=0.28CFM	6l/min=0.21CFM	14l/min=0.49CFM	12l/min=0.42CFM	
Motor Rotation	1750RPM	1450RPM	1700RPM	1450RPM	
Capacitor	10uf/250V	3uf/450V	16uf/250V	5uf/400V	
Horse power	1/6HP		1/4HP		
Pole	4P		4P		
Net wet	5.2kg		7.6kg		
Gross Weight	6.2kg		8.6kg		
Port thread	5/16"		5/16"		
Noise Level	52dB		52dB		