

FJ series user manuel





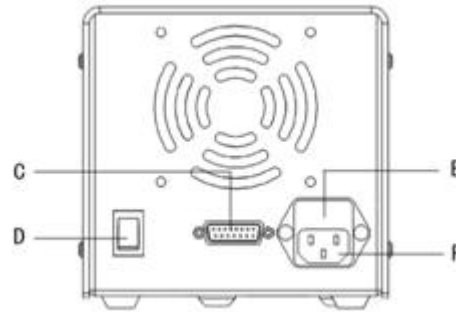
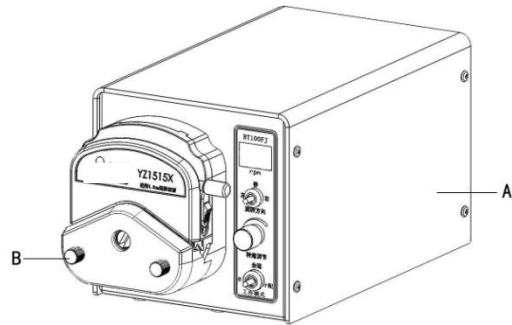
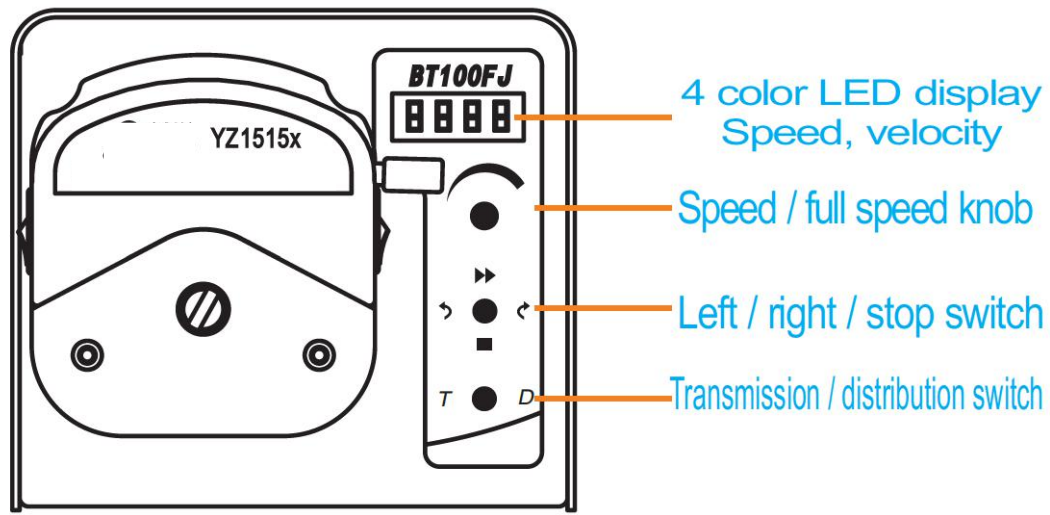
Important Information:

- Please carefully read the user manual before operating



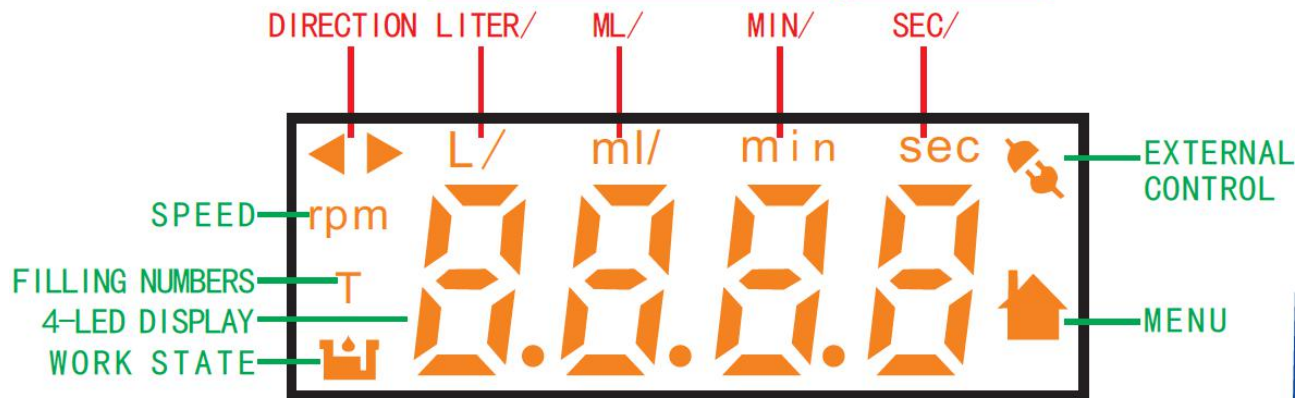
Warning:

- Possible cracks due to wear tubing, causing the liquid from the tubing in the overflow, when the human body and may Equipment produces injury, and therefore always check and timely replacement of the tubing
- Plug the power cord is connected directly to a wall outlet, and to avoid using extension cords
- If the power cord or plug for wear or other damage, unplug the power plug (pull the plug rather than holding the power cord.)
- If the following occurs, turn off the power and disconnect the power plug (pull the plug rather than holding the power line):
 - 1. Fluid spilled on the pump
 - 2. You think the pump needs maintenance or repair
- Customer's power outlet must have a reliable earth ground



A Drive B Pump heads C Analog interface
D Power switch E Fuse F Power socket

Operation panel



LED DISPLAY INTERFACE

- - 1 -

When power on. Display the device address: 1-32

Noted:

Press the rotary knob, enter the setting menu. Rotate the knob to different choice.

A 0 - -

Choose the work mode

F 0 - -

Set the filling time

A 1 - -

Set external control

F 1 - -

Set the stop time

A 2 - -

Choose the head & tube

F 2 - -

Set the filling number

E 0 - -

Calibration function

NOTED : When you in the A0-0 mode. You can set the A1/F0/F1/F2
When you in the A0-1 mode . You can set the A1 /A2/E0/F0/F1/F2

Noted:

Press the rotary knob, enter the setting menu. Rotate the knob to different choice.

Rotate the knob to ESC. Then exit the current display.

NOTED

A 0 - - → Choose the display mode

A 0 - -

A 0 - 0

→ In speed mode(rpm)

defaulted

A 0 - 1

→ In flow mode(ml/min)

A 1 - -

→ External control and system settings

A 1 - 0

→ C 0 - 4

defaulted

A 1 - 1

→ C 1 - 0

defaulted

A 1 - 2

→ C 2 - 1

defaulted

A 1 - 3

→ C 3 - 1

defaulted

A 1 - 4

→ C 4 - 1

defaulted

A 1 - 5

→ C 5 - 0

defaulted

A 1 - 6

→ 9600

defaulted

Necessary setting when you use the pump.

Please do not set the A1-4 to A1-d without manufacturer's professional guide.

A 1 - 7	→	- - 1 -	defaulted
A 1 - 8	→	10 RPM	defaulted
A 1 - 9	→	0	defaulted
A 1 - a	→	C o - 0	defaulted
A 1 - b	→	C b - 4	defaulted
A 1 - c	→	C c - 0	defaulted
A 1 - d	→	C d - 0	defaulted

A 2 - - → When you in the A 0 - 1 flow mode, it needs to set the type of pump head and tube. Pls check the head and tube in PAGE 9-11

A 2 - 0 → Choose the current pump head you used.

A200	→	YZ1515x	defaulted
A201	→	BZ15	
A202	→	313D	

A203	→	YZ2515x
A204	→	ZN25
A205	→	DG(6)
A206	→	DG(10)
A207	→	KZ25
A208	→	YZ35
A209	→	KZ35
ESC	→	Exit

A 2 - 1	Choose the right tube. Please check the tube parameter or consult the manufacturer.
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E 0 - -	When you in the A 0 - 1 flow mode. Calibration function can be used.
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Press the knob ,enter the calibration function .

15.85



Display the volume . You can rotate the knob to the volume you want to calibrate .(ml/)

Before use the calibration, please prepare the scale or counting cup by hand.

For example:

The volume you want to calibration is 20 ml.

Enter the calibration. Rotate the knob to the

20.00

Left–stop–right switch to the right direction you want. After stop transfer. Let the direction switch to stop. Then rotate the knob, input the actual volume what you measured by scale or counting cup.

Then the first calibration was finished. If you think it was still not precise. You can use that calibration function again. 3-5 times is better.

To set the filling time

F 0 --

0.1-9999 the unit is second

166.7-9999 the unit is minute

For example:

The pump model is BT100FJ. The tube is 17#.

The flowrate range is 0.0015-290 ml/min.

Bottle volume is 30 ml, fill 3 bottles per minute.

The speed you need is about $30 \times 3 \times 2 = 180$ ml/min

So when you in the flow mode. Adjust the flow to 180 ml/min.

When you in the speed mode. $1\text{rpm}=2.9$ ml

$180/2.9= 65$ rpm, so adjust the speed to 65 rpm.

$180\text{ml}/60\text{s}=3\text{ml/s}$ $30/3=10$ s

So set the filling time in 10 seconds.

To set the interval time

F 1 - -

0.1-9999 the unit is second

166.7-9999 the unit is minute

To set the filling number

F 2 - -

0-9999 times can set

Parameter for pump head and tube

Pump model	Suitable head	Noted
BT100FJ	YZ1515x/YZ2515x/DG series	
BT300FJ	YZ1515x/yz2515x/ZN25	
BT600FJ	YZ1515x/yz2515x/ZN25/KZ25	

Max flow(ml/min) for YZ1515x' TUBE (Wall thickness is 1.6 mm)

MODEL Max Flow SPEED	13# ID 0.8mm	14# ID 1.6mm	19# ID 2.4mm	16# ID 3.2mm	25# ID 4.8mm	17# ID 6.4mm	18# ID 7.9mm
100rpm	7	27	51	82	170	290	380
300rpm	21	54	153	246	510	870	1140
600rpm	42	162	306	492	1020	1740	2280

Max flow(ml/min) for **YZ2515x'** TUBE (Wall thickness is 2.4 mm)

MODEL Max Flow SPEED	15# ID 4.8mm	24# ID 6.4mm
100rpm	170	290
300rpm	510	870
600rpm	1020	1740

Max flow(ml/min) per channel for **DG series with 6 rollers'** tube DG-x(6)

MODEL Max Flow SPEED	ID* wall thickness 0.5*0.8 mm	ID* wall thickness 1*1 mm	ID* wall thickness 2*1 mm	ID* wall thickness 2.4*0.8 mm	ID* wall thickness 3*1 mm
100rpm	2	6	19	24	36

Max flow(ml/min) per channel for **DG series with 10 rollers'** tube DG-x(10)

MODEL Max Flow SPEED	ID* wall thickness 0.5*0.8 mm	ID* wall thickness 1*1 mm	ID* wall thickness 2*1 mm	ID* wall thickness 2.4*0.8 mm	ID* wall thickness 3*1 mm
100rpm	1.48	4	12.5	17.5	27

Max flow(ml/min) for KZ25' TUBE (Wall thickness is 2.4 mm)

MODEL Max Flow SPEED	15# ID 4.8mm	24# ID 6.4mm	35# ID7.9mm	36# ID9.6mm
100rpm	300	450	750	1000
450rpm	1350	2025	3375	4500

NOTE : The tube is a wearing part, so is not covered by warranty, so it is recommended that the tube or the complete head be routinely changed periodically. The manufacturer accepts no responsibility for damage caused by splitting tube. Baoding Chuangrui Precision Pump Co., Ltd. recommends that immersion & life tests be carried out prior to use. The information in this document is given in good faith and believed to be correct and current at time of publishing. The manufacturer cannot accept responsibility for its inaccuracy or any errors or omissions contained herein, and reserve the right to change information without notice.