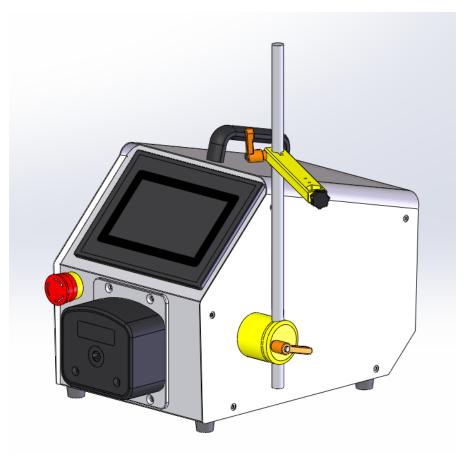
User Manual

Tabletop Peristaltic Pump Liquid Filler





10/2019

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1 SAFETY INSTRUCTION

This manual is designed for operators who are not acquainted with the machine, so please follow the instructions to operate and adjust the machine step by step. If you cannot thoroughly understand some of the instructions, please ask experienced technicians for help or contact us. Thank you!

Note: Please read this user manual in detail before taking any action to operate the machine!





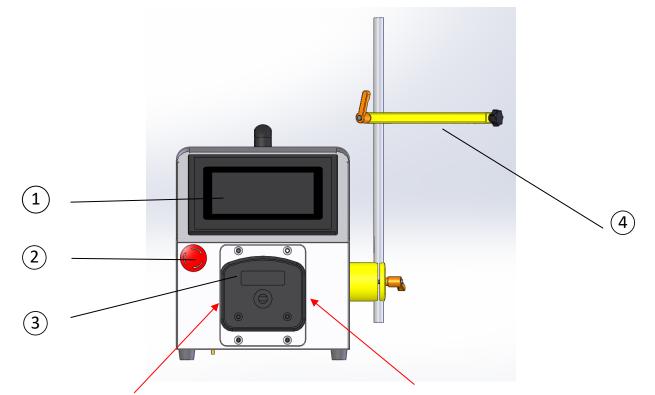


- This machine is driven by 110 or 220 VAC. The voltage should fit for the power standard of the machine and should always stay within the security limit.
- Only engineering technicians are allowed to make adjustment of the machine, but any adjustment is forbidden while the machine is running. Failure to follow this warning may expose the operator to danger.
- Do not place the machine near high temperature or inflammables. The places where are not stable or where the machine will be crashed easily are also not suitable to place the machine.
- To prevent from getting electric shocks, the machine cannot be placed in a humid environment.
- Do not attempt to remove/replace parts or to use the machine for any other purpose other than what is recommended by us.
- Do not randomly apply lubricants to any part of the machine.

Notice of EquipmentWe continually devote to developing and researching for new items andImprovements &reserves the right to change or terminate the production specifications andDocument Revisionsfeatures which are presented in this manual without notice and without taking
any responsibilities. We have also strived to provide all the needed information
in this guide, but if there is any error, we reserve the right to correct for the next
revisions.

2 PRODUCT DESCRIPTION

2.1 COMPONENTS



liquid inlet side

liquid outlet side



2 E.M. Stop



(4) Nozzle Bracket

2.2 CONTROL PANEL

2.2.1 Test Mode

A						
		Runn	ing	RESET		
To Auto Mode		Test	Mode	To Manual Mode		
C	Current	Filling Volume	e:123456 Rese	et		
F	illing	Speed: 123	-10 -5 +5 +1	0		
		START	Speed Fill			
Reset To Auto Mode		Reset the machine Enter auto mode.	condition.			
To Manual Mod	е	Enter manual mode.				
Current Filling V	/olume	The test result of filling volume.				
Filling Speed		To set up the filling speed in test mode.				
Start		Press start to test the filling volume.				

To fill in high speed to exclude the air in outlet tube.

Speed Fill

2.2.2 Manual Mode

			Runn	ing			RESET
To Test Mode		Ma	inual	Moc	le	Т	o Auto Mode
Output	: 12	3456	RESET	Fillin	g Speed	: 12	3 *
+1000	+100	+10	+1	-10	- 5	+5	+10
123456					STA	ART	
-1000	-100	-10	-1		Set	ting	
Reset the machine condition. To Test Mode Enter test mode.							

To Test Mode	Enter test mode.
To Auto Mode	Enter auto mode.
Filling Speed	To set up the filling speed in manual mode.
Output	The number of filled bottles.
	(Press RESET for one second, it will re-zero)
Start	Press start button to fill.
Setting	Enter setting page.
Filling Volume	Press the number button to adjust the volume or press CC to key
	in directly.

2.2.3 Auto Mode

	Running Reset							
To Manua Mode	To Manual Auto Mode To Test Mode							
Output	: 12	345	RESET	Filling	g Speed	: 12	3 *	
+1000	+100	+10	+1	-10	- 5	+5	+10	
12	34	56	сс		ST/	ART		
-1000	-100	-10	-1		Set	ting		

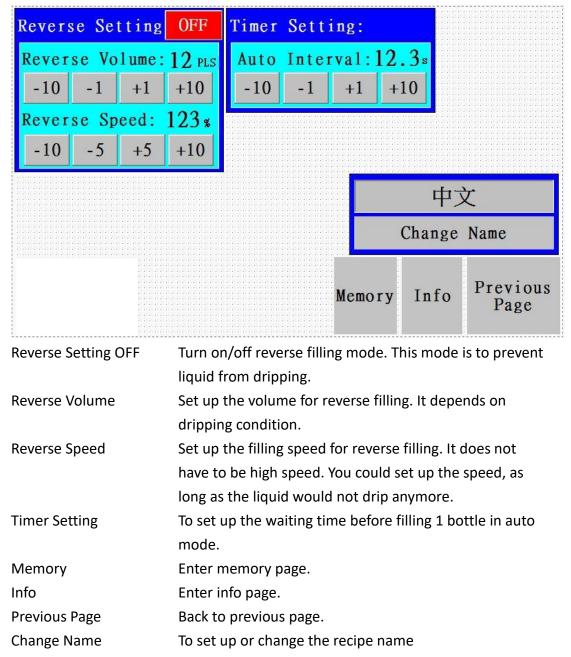
Reset	Reset the machine condition.
To Manual	Enter manual mode.
Mode	
To Test Mode	Enter test mode.
Filling Speed	To set up the filling speed in auto mode.
Output	The number of filled bottles.
	(Press RESET for one second, it will re-zero)
Start	Press start button to fill.
Setting	Enter setting page.
Filling Volume	Press the number button to adjust the volume or press CC to key
	in directly.

2.2.4.1 Setting Page (Manual mode)

Revers	e Set	tting	OFF	Timer Setting:
Rever	se Vo	lume:	12 pls	Manual Delay: 1.2 s
-10	-1	+1	+10	-1 -0.1 +0.1 +1
Rever	se Sp	eed:	123 %	
-10	-5	+5	+10	
				中文
				Change Name
				Memory Info Previous Page
Reverse S	etting (OFF		n/off reverse filling mode. This mode is to prevent
Reverse V	/olume		•	rom dripping. the volume for reverse filling. It depends on
Neverse v	olume		-	ing condition.
Reverse S	peed			the filling speed for reverse filling. It does not
			have to	be high speed. You could set up the speed, as
			-	the liquid would not drip anymore.
Timer Set	ting			up the waiting time before filling 1 bottle in I mode.
Memory			Enter n	nemory page.
Info			Enter in	nfo page.
Previous l	Page		Back to	o previous page.
Change N	ame		To set ι	up or change the recipe name



2.2.4.2 Setting Page (Auto mode)





2.2.5 Memory Page

	Recipe Code 12			Presen	t Value		Recipe	
Product Name				中	文		中文	
Ma	anual Filling Delay		1.2			1.2		
Å٦	ıto Filling Interva	1		12	.3		12.3	
Cı	ırrent Filling Volu	me		123	456		123456	
Fi	illing Speed-Test			12	34		1234	
Fi	illing Speed-Manual	/Auto		12	34		1234	
Re	everse Filling Spee	d-Manual/Au	to	1234			1234	
Re	everse PULSE Value			12			12	
D i	iving Time			1.	.2		1.2	
	Previous Page	Recipe +1	Recipe -1					
		SAVE	LOAD		Test	Manua	al Auto	

Please name your recipe in this column.
The present value in setting page.
The parameter value of selected recipe.
Enter recipe list page.
To select saved recipe.
To save Present Value as recipe.
To load RECIPE value.
Enter test mode page.
Enter manual mode page.
Enter auto mode page.

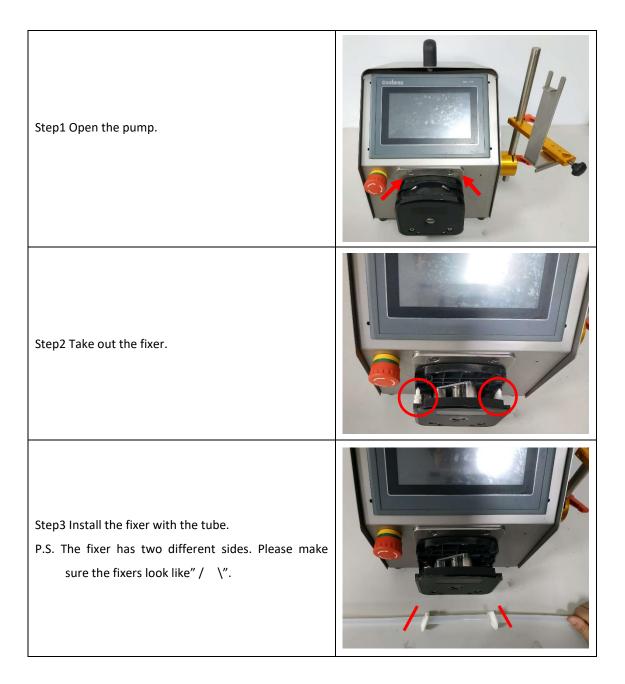
Recipe List 1/2			
Recipe1	Select	Recipe6	Select
Recipe2	Select	Recipe7	Select
Recipe3	Select	Recipe8	Select
Recipe4	Select	Recipe9	Select
Recipe5	Select	Recipe10	Select
Next Pag	e	Test Manu	al Auto
Recipe List 2/2			
	Select	Recipe 16	Select
Recipe 11	Select	Recipel6 Recipel7	Select Select
Recipell Recipel2			
Recipell Recipel2 Recipel3	Select	Recipe17	Select
Recipe12 Recipe13 Recipe15	Select Select	Recipe17 Recipe18	Select Select

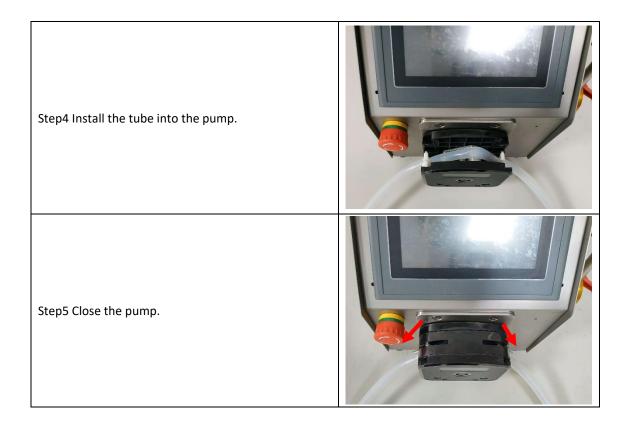
2.2.6 Recipe List Page

Select	To select the recipe as filling parameter.
Next Page	To next page of recipe list.
(Previous Page)	(To previous page of recipe list.)
Test	Enter test mode page.
Manual	Enter manual mode page.
Auto	Enter auto mode page.

3 BEFORE OPERATION

3.1 CONNECTIONS







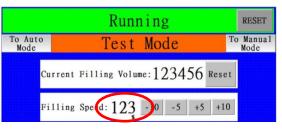
3.2 DRIVEN PUMP AND DISPENSING AIR

- 3.2.1 Switch the filling mode to the <u>Test Mode</u>.
- 3.2.2 Adjust the filling speed over than 400RPM.
- 3.2.3 Aim the opening of the nozzle to the tank or other container and **push** the start button **continuously**. When the pump starts operating, the liquid will be sucked and filled into the filling tubes.
- 3.2.4 Please **push** the start button **continuously** until there is no more air in the filling hose.

3.2.5 Fix the filling nozzle onto the bracket, and then the preliminary operation is done.

TIP 01: While testing, please adjust to HIGH filling speed to help the air to eliminate from the filling hoses. (This action can prevent from influencing the filling process afterward.)

TIP 02: The liquid in the hoses has to flow out smoothly without air so that it will not affect the filling accuracy. TIP 03: The best way to fill is to let the surface of the filling liquid in the tank higher than the pump.







OPERATION

4.1 OPERATION STEPS



4.1.3

Place the bottle (or container), which you want to fill, under the filling nozzle and adjust the machine with proper filling speed. (The larger the scale is, the faster the filling speed will be. However, too fast or too slow will both affect the filling accuracy.)

4.1.4

Switch the to Test Mode, push the start button continuously until the required filling volume, and then note down the parameter shown on the screen.

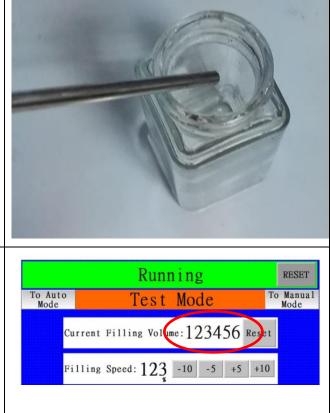
★ Please push continuously, or the parameter will not be accurate for the filling volume.

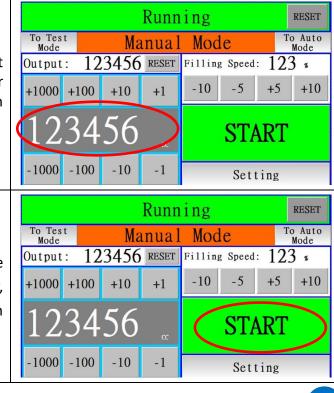
4.1.5

Switch to <u>Manual Mode</u>, and get into the parameter setting to enter the parameter you noted down from the previous step.

4.1.6

Press start button to fill. If the volume still has some discrepancy, please adjust the volume on manual mode directly.





	Runn	ing Reset
4.1.7	To Test Manual Mode Manual Output: 123456 RESE	ModeTo Auto ModeFilling Speed:123 \$
While filling, the screen will show the output of the bottles being	+1000 +100 +10 +1	-10 -5 +5 +10
illed to assist the operator to neasure the production.	123456 "	START
	-1000 -100 -10 -1	Setting



5.2 MAINTENANCE

- 5.2.1 Be sure to dry the hands before operating the machine for setting and adjusting to prevent from getting electric shocks or causing short circuit.
- 5.2.2 Avoid filling materials that is higher than 80° C because liquids with higher temperature will cause resistance overloading of the control components and then affect the life span of the machine.
- 5.2.3 After filling, please be sure to clean the hoses and the pump to keep the machine clean.
- 5.2.4 If you need to fill liquids with "granule", please filter before filling in case the granule may block the filler and shorten the life span of the machine.
- 5.2.5 Please be cautious while filling acid or alkaline liquids to prevent from splashing to hurt the operator(s) and the machine.

TROUBLESHOOTING

Trouble(s)	Possible Causes & Solutions
Out of Power	 Check if the power switch is ON. (switch to " - ") Check if the emergency button is ON. Check if the power supply cable is loose or broken. Check if the safety fuse blows.
No Reaction	 Check if the operation mode is Auto Mode. Check if the filling speed is too low. Check if the filling volume is too small. Check if the machine status is stand by. Repeat the setting and filling processes. Check if using a foot pedal or any manual operation assisting devices. Once using those devices, the filler will adopt the signal from them in priority.
Bubbles Appear in Tubes	 Be sure to eliminate air from the hose before filling. Check if the inlet hose is immersed in the tank. Check if the hose is fastened. Check if the hose is broken.
Strange Noise/ Not Filling Smoothly	1. Check if anything blocks up the pump.

- In case there is any problem or malfunction that you cannot solve, please contact us immediately.

7 CONTACT INFORMATION

If you have any questions or you need to order some spare parts, please contact us through the contact information below:

Tel: 866-888-6327

Fax: 800-475-8915

E-mail: sales@clevelandequipment.com

Website: www.clevelandequipment.com