FRC-100
Description of the use of Fraction collector

preface:

Thank you for purchasing FRC-100 Fraction collector. The product manual contains the function and operation process of the instrument. In order to ensure the normal use of the instrument, please read the product manual carefully before operating the instrument.

Safety:

The following basic safety measures must be observed at all stages of operation, maintenance and instrument. When the instrument is used, it should be operated according to the manual. Illegal use will cause the normal operation of the instrument and even damage the instrument.

1. Please read the manual carefully before using the instrument. Improper operation may affect the service life of the instrument.

2. The power socket of the instrument must be reliably grounded.

3. After using the instrument, turn off the power and clean the test tube immediately.

4. In case of the following conditions, in addition to immediately cut off the power supply, and contact the supplier or professional personnel to discuss maintenance matters.

1) The liquid enters the instrument.

2) Abnormal noise or irritating smell appears in the instrument.

3) The function of the instrument changes obviously, such as the machine cannot be switched on and off normally.

4) Please do not disassemble the instrument by yourself, otherwise you will lose your warranty right and may endanger your safety.

1、 Overview

The automatic partial collector is a device which can automatically separate the solution separated from the chromatographic tube according to a certain amount when separating some mixed substances by chromatography. It is suitable for the departments of scientific research, medical treatment and laboratories of colleges and universities to carry out the liquid chromatography layer analysis experiment.

2、 Technical index

Product model	FRC-100	FRC-160
Collection tube:	100	160
Capacity:	12ml	5ml
Regular collection range:	1s - 199 hours, 59 minutes and 59 seconds, optional	
Drop collection range:	1 drop - 9999 drops, optional	
Peak collection range:	0-100mv	
Display mode:	LCD display	
Power off data storage:	decade	
Continuous working hours:	More than 200 hours	

3、 Instructions for install

1. Please remove the dust cover carefully

2. The alarm is plugged into the alarm socket on the rear panel
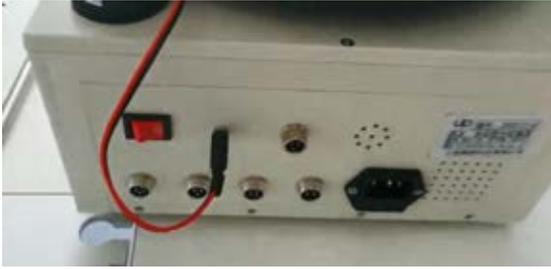
3. Insert the vertical bar into the fixing seat and tighten the fixing screw at the same time

4. Fix the "safety valve" on the upper part of the "vertical bar"

5.The height of silica gel tube is 2-5cm higher than that of test tube

6. Insert the safety valve connector into the "safety valve" socket on the back panel of the instrument
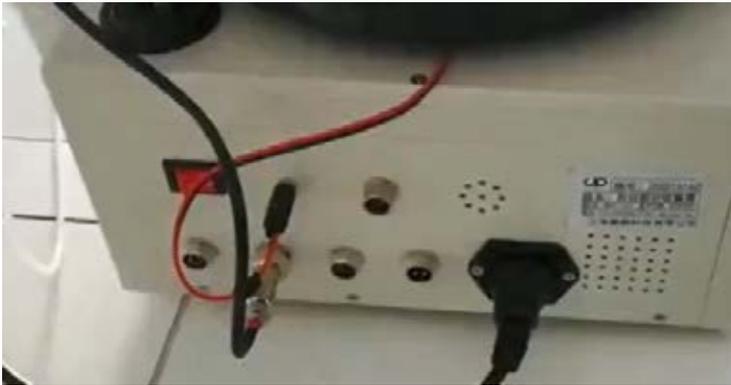
7. Power on: press the power switch on the rear panel of the machine

4、Timing function instructions   (Change one tube in 2 seconds)

The LCD displays "welcome", that is, The instrument is ready to work

Press the "TIME" key to enter the "timing parameter" setting menu..

Set the parameter of "FIRST TUBE" to "1" and press "ENTER";

Set the "LAST TUBE" parameter to "100" and press the "ENTER" key

Set the "TIMER SPECIFY" to "000:00:02"

First tube positioning confirmation.

The eyedropper mouth is manually aligned with the center of the first tube in the outer ring of the test tube tray.

After alignment, fix the respective fixing screws.

Press the" START/ STOP" key,

Enter "timing operation..." Interface,

That is to automatically enter the working state of timing (002 seconds) collection from the first tube.

After running to the end of timing collection of tube 100, the instrument will alarm automatically,

Press the "START/ STOP" key to clear the alarm

Return to ready state

5、Drop function instructions

(Change the first tube is set as 3, and the last tube is 10 and 3 drops per tube.)

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Drops to collect, replace the gauge head.
Pull out the original pole,
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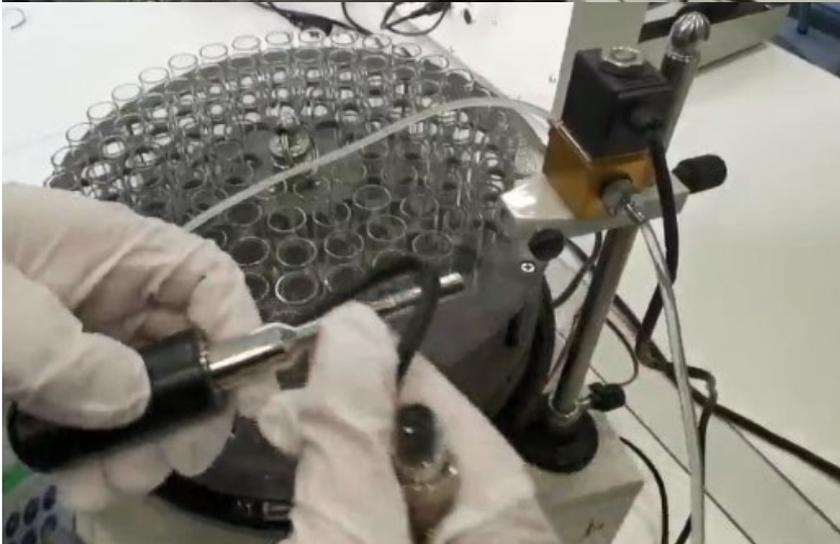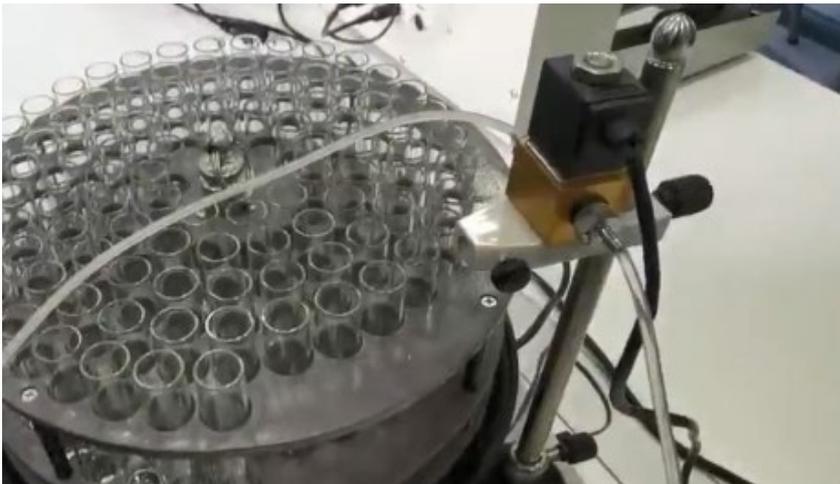
Insert the meter drop head shaft lever up.
Tight silicone tube.

Insert the meter drop head back.

According to "drop" button, enter "drop parameters" set menu.

The "first tube" is set to "3" and press "ENTER" button;
At the end of the "tube" is set to "10" and press "ENTER" button;

"Drips" parameter is set to "3"and press "ENTER" button;

Press the "start/stop" button,Initialization "DROP" into the interface

Press the "start/stop" button,
Enter the "drop in the operation of the..." Interface.

6、Value function instructions

When using this feature,
Need to form a complete set of the detector, pump, column ,
Use connections to the collector, detector, constant flow pump.
Press the "VALUE" key,

The "first tube" is set to "3" and press "confirm" button;
At the end of the "tube" is set to "10" and press "confirm" button;
Puts the "VALUE" parameter is set to "50%",

Detector sample pool to the collector pipe is 20 cm in length,
Set LENGTH is: 20 cm

We test tube capacity of 12 ml,

Set CAPACITY is 10 ml.

Press the "start/stop" button,
Initialization "time" into the interface, the arrow flashing.
Press the "start/stop" button,
Open the constant flow pump, began to receive samples.
Sample concentration after reaching 50%, began to change tube.
Receive up to 10 ml began to change out of a tube.
The sample concentration is lower than 50% began in tube.
After the collection, automatic alarm instrument.

7、Maintenance instructions:

To ensure good heat dissipation during operation, the instrument should be placed in a clean, dry, ventilated and non corrosive place.