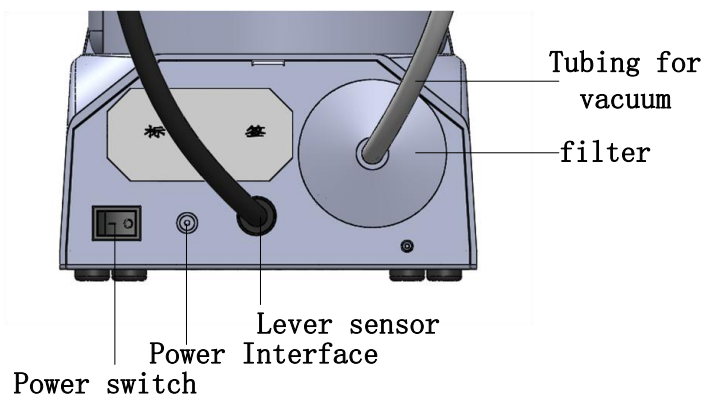
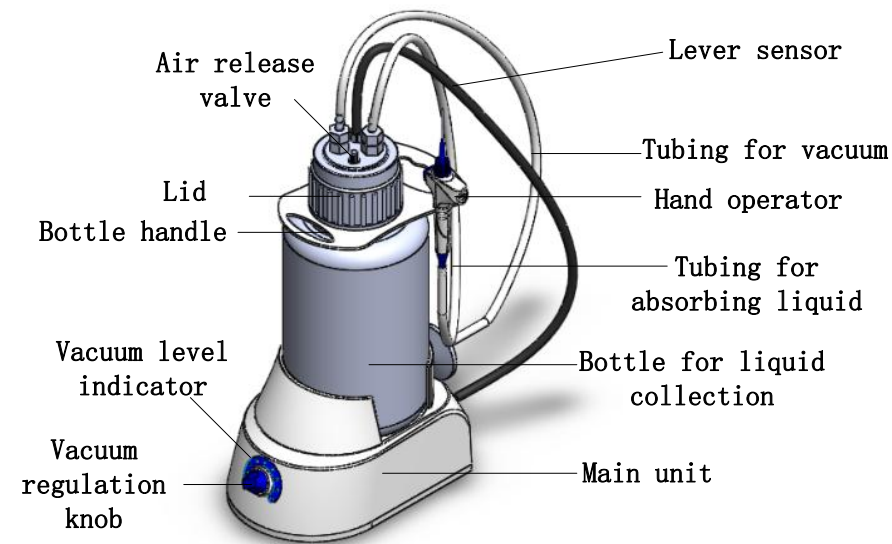


Operation Guide



1 Introduction



Main unit	Main part of the instrument, has a vacuum pump inside
Bottle	Bottle for liquid collection
Lid	Lid with opening for tubing. have the fast-inserting joints, lever sensor interface and the air release valve. Note: Please make sure every part put into position. When you want to take off the tubes from the fast-inserting joint, please hold the metal shrapnel, then pull out.
Hand operator	Aspirate liquid by prssing the button of the Hand operator
Lever sensor	Used to prevent the overflowing of the liquid. As soon as the overflow detected, the pump switches off and alarms.
Tubing for vacuum	Connect the main unit to the bottle, providing negative pressure environment
Tubing for absorbing liquid	Connect the hand operator to bottle, absorbs the liquid to the bottle.
Bottle handle	Install the bottle handle between the lid and the bottle, in order to hold the hand operator and as a handle when moving the bottle.
Air release valve	Unscrew the valve to release the vacuum Note: when you want to open the lid, please relese the vacuum first
Vacuum level indicator	Can indicate the degree of vacuum. When reaching the setting vacuum, the lamps turn to normally on, flashing means have not reached the setting vacuum.
Vacuum regulation knob	Regulate the setting vacuum
Filter	Connected between the main unit and the bottle, in order to prevent the liquid going into the pump
Power interface	Connect the power cable
Power switch	Power on/off

2 Operation introduction

- 1) Installation Make sure all parts put into position.
- 2) Make sure the air release valve closed
- 3) Power on
- 4) Adjust the Vacuum regulation knob clockwise to increase the setting vacuum level, vacuum level indicator will turn on in sequence. Adjust the Vacuum regulation knob anticlockwise to decrease the setting vacuum level, vacuum lever indicator will turn off in sequence.
- 5) When the vacuum level indicator turn to normally on, that means the bottle vacuum level has reached the set value. Then you can aspirate liquid by prssing the button of the Hand operator.

Note: The level sensor is used to prevent the overflowing of the liquid. As soon as the overflow detected, the pump switches off and alarms. Please dispose the liquid of the bottle or replace a empty bottle as soon as possible.

- 6) Power off
- 7) Unscrew the valve to release the vacuum

Note: when you want to open the lid, please relese the vacuum first

- 8) Take off the bottle, open the lid, and pour out the liquid.



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3 Specification

Vacuum range	0 to -600 mbar (adjustable)
Pump flow rate(Rated Value)	15 L/min (air)
Aspiration rate of liquids	17 mL/s (aspiration pipette)
Dimensions (W×D×H)mm	180 ×240×450
Weight	3kg
Input voltage	100 -240 VAC, 50/60 Hz
Bottle Volume	4L