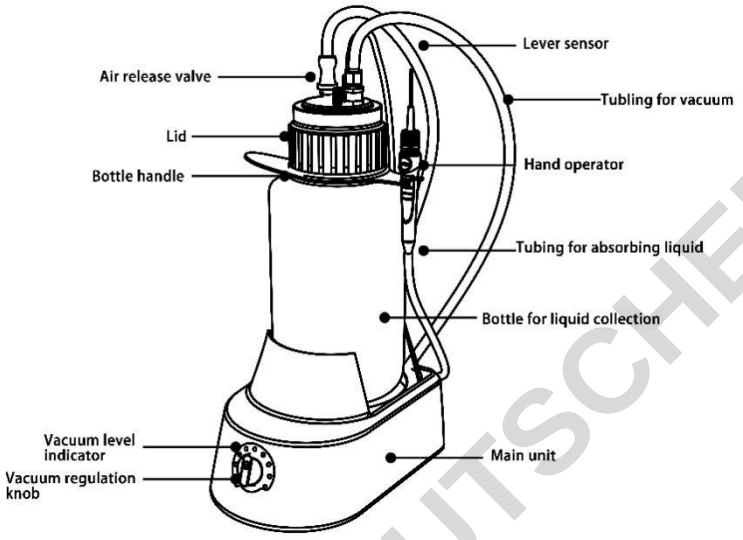
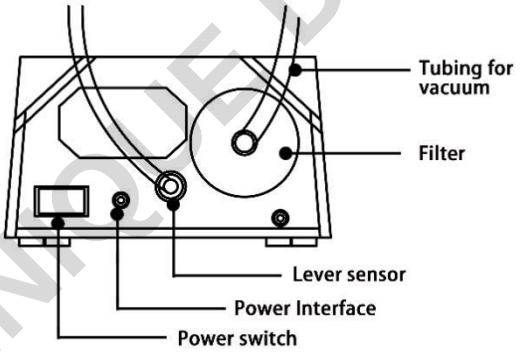
Quick Operation Guide

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 hold the metal shrapnel and then pull out the tubes from the fast-inserting joint.
Hand operator	Aspirate liquid by prssing the button of the Hand operator

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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	Between the lid and the bottle for moving the bottle.
Air release valve	Unscrew the valve to release the vacuum before open the lid.
Vacuum level indicator	Indicates the vacuum degree .They will keep flashing until the target vacuum is reached.
Vacuum regulation knob	Rotate to adjust the target vacuum
Filter	Keep liquid away from the pump
Power interface	Connect the power cable
Power switch	Power on/off

2 Operation

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.

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6) Power off

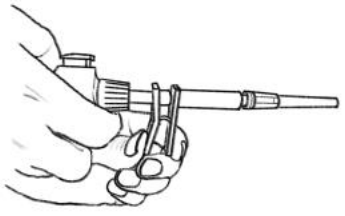
7) Unscrew the valve to release the vacuum

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

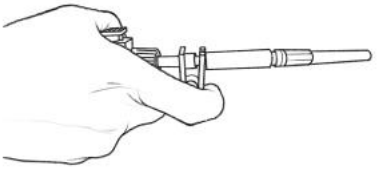
8) Pls make sure the bottle lid is taken off or unscrewed during autoclaving;

3 Operation Tip

Correct operation of tip detrusion adapter









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Liquid Handling

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