

# **Electric Suction Machine**

**MODEL: FN-23B·I**

INSTRUCTION MANUAL

(Please read the instruction manual carefully before using this machine)

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## **1. Application**

FN-23B·I Electric Suction Machine is a movable suction pump suitable for surgical room. This apparatus is applied for suction of gore and other secretion in human body.

## **2. Structure**

- (1) Flooding protection equipment applied to suction bottle.
- (2) Filter bottle to decrease ambient air pollution
- (3) Electric control panel and pedal control switch parallel connected for choice in usage.
- (4) Safe type: Type B, Class I

## **3. Technical features**

Pump structure: Diaphragm type

Power voltage: AC 220V 60Hz

Negative pressure:  $\geq 0.09\text{MPa}$

Suction rate:  $\geq 20\text{L/min}$

Negative pressure regulating range:  $0.013 \sim 0.09\text{MPa}$

Suction bottle: 1000ml x 2

Noise:  $\leq 55\text{dB}$

Input power: 400VA

## **4. Instruction**

- (1) Check cushion bottle and storage bottle and all kind of latex tubes, connect electric power and pedal control switch.
- (2) Adjustment of negative pressure and negative valve: turn left the negative pressure knob and plug up the tube. The negative pressure could be  $0.09\text{MPa}$ . For different usage, this control range could be between  $0.013 \sim 0.09\text{MPa}$ .
- (3) Electric control panel and pedal control switch parallel use: If control panel electric power on, the pedal control switch is out of work.
- (4) Working: should be no more than 40 minutes.

## **5. Maintenance**

- (1) suck clean water before stop the machine.
- (2) Clean polluted bottle, plug, flooding equipment and all kind of tubes.
- (3) Be care of water into the machine in maintenance.
- (4) Put the machine in dry place.

## 6. Malfunction elimination

Serial No.	Malfunction phenomenon	Malfunction Reason	Elimination	Remark
1	Max negative value: $\leq 0.09\text{MPa}$	(1)bottle air leakage (2)adjustment knob loose (3)tube leakage	(1)clean bottle neck (2)tighten adjustment knob (3)tighten tube connection	(1)change distorted bottle plug (2)change tube if broken
2	Max negative value: $\geq 0.04\text{MPa}$ , while suck pressure in the tube mouth	(1)fluid equipment closed (2)tube jammed (3)air filter jammed	(1)lose fluid equipment (2)clean tube (3)change air filter	Clean on time
3	Indication light off, motor stops	(1)power plug disconnected (2)fuse broken	(1) check plug (2) change fuse	
4	Fuse broken after power on	(1)inside malfunction (2)pump jammed	(1)check inside lines (2)check pump motor	Maintenance by technician
5	Fluid into pump	Fluid valve invalidation	Check or change	

[influenced high land or low electric power voltage, it is normal of lower pressure]

[Products appearance of specifications changed without notice]

## 7. Transportation and storage

(1) Usage Temperature:  $5 \sim 40^{\circ}\text{C}$

(2) Relative Humidity:  $\leq 80\%$

(3) Well ventilated place

## 8. Accessories

Serial No.	Name and specifications	Units	Quantity
1	Transparent suction tube $\varnothing 7 \times 11$	piece	1
2	Phlegm tube	piece	1
3	Fuse $\varnothing 5 \times 20/5\text{A}$	piece	2
4	Plug AC220V	piece	1
5	Pedal switch	piece	1

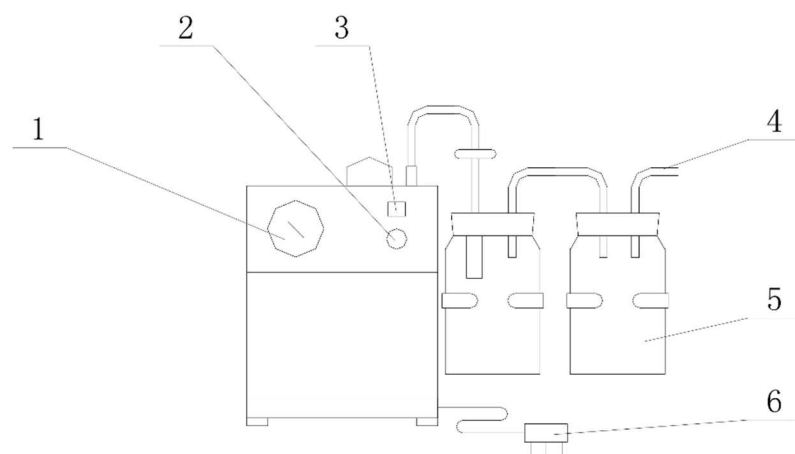
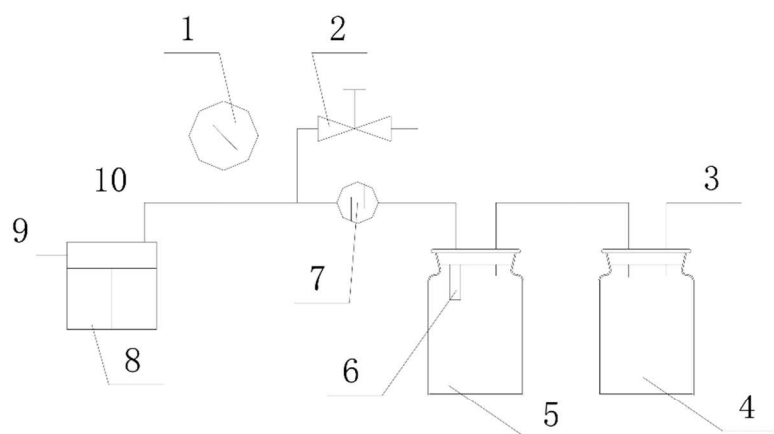


Fig 1 Sketch map

- |             |                    |                 |
|-------------|--------------------|-----------------|
| 1. pressure | 2.vacuum regulator | 3. power switch |
| 4. Pipe     | 5.cushion bottle   | 6. AC220V input |



Working principle map

- |                                      |                      |
|--------------------------------------|----------------------|
| 1 negative pressure meter            | 6 flooding equipment |
| 2 negative pressure adjustment valve | 7 air filter hole    |
| 3 patient connection hole            | 8 single way pump    |
| 4 storage bottle                     | 9 vent               |
| 5 cushion bottle                     | 10 suction hole      |