

# GASTRIC-THORACIC DRAINAGE PUMP

Micro Computer Digital Control



ISO 9001

ISO 13485

CE 0434

**DF-500**



**DOCTOR'S FRIEND** medical instrument co., Ltd.



# GASTRIC-THORACIC DRAINAGE PUMP

## DF-500

### Features and functions

- Adopt drum closed twin pump design. No noise, no bad smell, no spark, safety and long life.
- Digital timer adopts micro computer programming design and large display for easy reading and simple operation.
- The output pressure of pump can be instantly known from the pressure test push button.
- The new watch type pressure gauge which can clear show the reading replaces general water manometer.
- The vacuum bottle is made of impact resistant material, so it can be sterilized in high temperature and high pressure.
- Germ killing filter can prevent germs intruding from outside to secure safety.
- One large article box at the rear of instrument is used for storing the leading tube, catheter, etc.
- Stainless steel skeleton for easy maintenance, diagonal PU anti-static brake wheels for easy fixing.

### Standard Accessories

1. Silicon suction tube (120 cm) ..... 2pcs
2. Filter (big) ..... 2pcs
3. Fuse ..... 2pcs
4. Two-way adapter ..... 1pc

### Specification

<b>Voltage</b>	120V or 240V
<b>Power consumption</b>	20W or 10W
<b>Negative pressure regulator</b>	0~1500 mm / H <sub>2</sub> O
<b>Max. volume</b>	2000 c.c. x 2 pcs
<b>Safe device</b>	Level float control
<b>Machine size</b>	L40xW40xH83 (cm)
<b>Packing size</b>	L46xW46xH89 (cm)
<b>Net weight</b>	17.8 KGS

### ▼ Safety Protective Cover of Control Panel

The control panel of this instrument is equipped with one safety protective cover which is made of acrylic. While operating the control panel, the protective cover can be opened. While executing functions, the protective cover must be closed to prevent doctors or nurses mis-touching this instrument.



- Instrument control panel
- Floating control (big)
- Closed filter (big)
- Depositing box
- Suction bottle 2000c.c. x 2 pcs



The filter is the closed type. Its inside is installed with filter paper. When the filter is polluted, please replace it immediately to secure user's safety and the unit's life.

### Detail Explain

- ① POWER: power source indicating lamp
- ② INTE: intermittent button
- ③ OFF: stop button
- ④ CON: continuous button
- ⑤ Suction time setting: ① min
- ⑥ Suction time setting: ⑩ min
- ⑦ Rest time setting: ① min
- ⑧ Rest time setting: ⑩ min
- ⑨ START: intermittent start button
- ⑩ STOP: stop button for changing time
- ⑪ V-TEST: suction pressure testing job
- ⑫ Suction pressure adjusting knob
- ⑬ Suction negative pressure gauge mm / H<sub>2</sub>O



### Using Instructions

1. After power inputs about 3 seconds, POWER lamp is on (Fig. ①) for stand-by. If the lamp isn't on, please check the power source and the instrument's fuse.
2. Optional function for use, INTE (Fig. ②) for intermittent function and CON (Fig. ④) for continuous function.
3. Press CON button for continuous running and press OFF button (Fig. ③) for stop.
4. For time setting of intermittent function, press INTE and then do VACUUM SET. First press ① min (Fig. ⑤) to set the unit place and then press ⑩ min (Fig. ⑥) to set the tens place. After the setting is completed, please do REST SET. First press ① min (Fig. ⑦) to set the unit place and then press ⑩ min (Fig. ⑧) to set the tens place. The minimum time setting for VACUUM SET and RESET SET is 1 minute and the maximum time setting is 99 minutes.
5. After VACUUM SET and RESET SET are completed, press START button (Fig. ⑨) to start working. While working, the timer can't be further adjusted.
6. While the instrument is working, if the setting time needs to be changed, please press STOP button (Fig. ⑩) and then set the time. After time setting is completed, press START button. When you want to stop its running, please press OFF button.
7. While the instrument is working, if you want to check the level of the suction pressure, please press V-TEST button (Fig. ⑪) and true the adjusting knob

- (Fig. ⑫) to adjust the pressure.
8. The level of the suction negative pressure can be shown on the negative pressure gauge (Fig. ⑬). The unit is mm/H<sub>2</sub>O. For the pressure and time setting, please follow doctor's instructions.
9. The flow leading means that liquid is led flowing out by weak vacuum pressure. The hose connected between patient's wound and vacuum bottle must be from high position to low position. The situations that the hose is positioned from low to high or is depressed aren't allowed because it can influence the used pressure.
10. The first bottle must be filled with water until water covers the hose's cut ( flush flow leading). When the first bottle is filled with water, the water automatically flow into the second bottle which is equipped with the automatic overflow device and 50cc protection bottle. In case water flows into it, please immediately pour out the water to secure this unit.
11. One filter between the second bottle and the pump is used to prevent germs entering. If it's polluted, please change it immediately.
12. If there is any fault at the inside wiring and piping, please don't dismantle it and quickly contact the persons of medical engineering department or our technician for repair and service. Thank you for your cooperation.



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