

# English Manual

Water circulating type vacuum pump



Please read the manual before you operate this machine.

**Serve you is our duty!**

**Satisfy you is our pursuit!**

**Our motto:**

**Credit foundation**



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vacuum pump

## 1. Function and Usage:

The vacuum pump is a kind of water-jet pump rely on circulating water as flowing, this pump is based on rotary Vane Vacuum pump, glass drawing-air pump to adapt Jet-flowing technology to gain negative pressure to design this new-style pump. It is used in evaporation, distillation, desiccation, filtration, sublimation, etc. it is necessary device for medicine, chemical industries, food processing, college, scientific units, manufacturing department, etc.

## 2. structure:

1), to provide water-supply, save water; it is used normally when it met with inadequate pressure, it can use several weeks to add water for one time;

2), to work for multiple vacuum nozzles: it is outfitted 2 unit of vacuum joints, may freely choose 1 unit of pipe or 2 unit of pipes to use it. It is equipped with 5 vacuum nozzles, can freely use any one vacuum nozzle or use all vacuum nozzles by six-way (plz refer picture:)



3), Resisted Corrosion: the body of pump is made of high quality plastic, the spare part of it is made of stainless, copper, or plastic parts (PTFE), it is not influenced on acid base, other corrosive matter, etc, do not need to use vacuum oil, it doesn't pollute lab.

4). Function stability: it doesn't change to use vacuum continuously, if time is long to result in the vacuum downs when temperature is rising, may put ice or cooled water to instead of heated water.

5). small noise, move easily.

6). SHB-B95 SHB-2000 vacuum pump with circulation cooling water equipment, it can provide cooling water to reaction's device.

## Parameters:

1), Water Flow: 10M<sup>3</sup>/h Power: 550W, Lift: 10m, Max Vacuum: 0.098Mpa, Number of Tap: 5 units, Tank Capacity: 34L.

2), Vacuum: water temperature 5°C, Vacuum Meter: 8mmHg;  
10°C, 10mmHg, 15°C, 15mmHg, 20°C, 20mmHg.

3) Single tap Air Sucking Amount: 10L/min.

4) Noise: >50db

## Operation:

1), prepare to work: to use it for first time, to infuse water from top round opening, then insert electricity. Please refer picture following



Then infuse water at middle upper position of water level meter, it will be ok for working or circulating water



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2),vacuum working: to use other lab equipment connects with vacuum nozzles of vacuum pump, to start button, then the indicator is light, the work is normal. Please refer following:



3), Water Circulating: if it hasn't chiller in lab, so you can use water circulating for rotary evaporator, how to do water circulating? Please refer following:



The left nozzle is inlet water, the right nozzle is outlet water.

4),Malfunction and repair:

Malfunction	Reason	Repair
Do not draw vacuum	Vacuum device wall up	Take down vacuum head to remove matter
	The pipe is air-leakage	Seal,again.
	Vacuum meter out of control	Clean up sealed screw key behind vacuum pump
The motor doesn't work	the connection of electric line is wrong,	Check and alter electric line,
	Fuse is bad	change new fuse.
Water pump doesn't draw water	The impeller of water pump is deposited by dirty	Open pump head,clean up it.
	The impeller of water pump is crashed	Open pump head to change new impeller.
	The water level is low for water tank	Renew to add water.

## SHB-B95A

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## Quality certification



This product is qualified by our Q.C