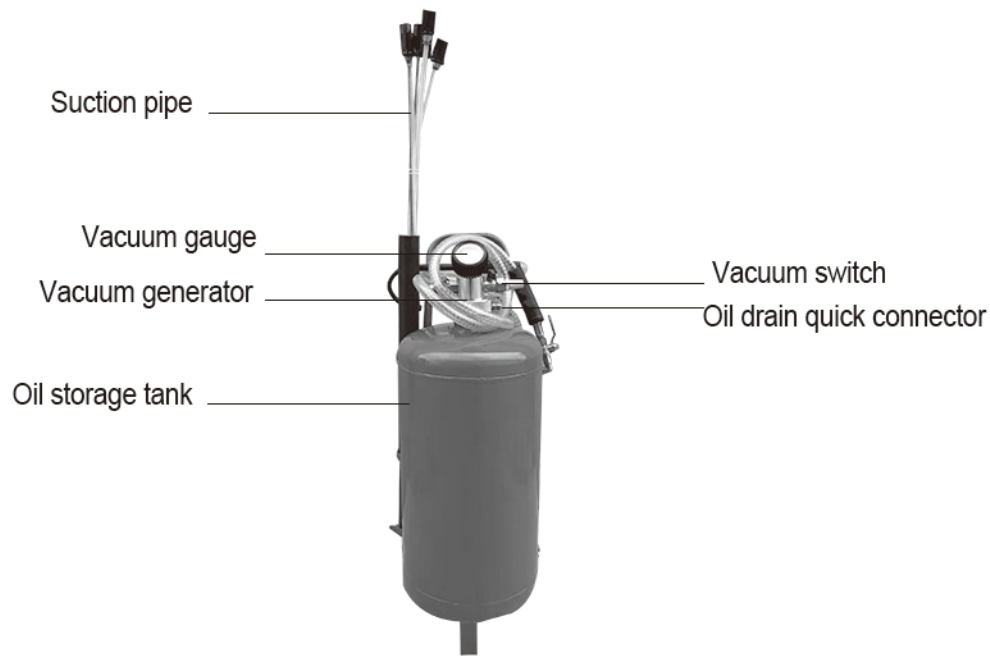


# Pneumatic pumping unit



## I .Part Name



## II .Technical Parameters

Vacuum degree: minus 0–0.8bar      working pressure: 6–8bar

Oil storage tank capacity: 20L      Medium: engine oil, gear oil

Net weight: 29kg      Gross weight: 30 KG

Pumping speed: 0.6L/MIN(  $\phi$  5mm); 1.6L/MIN(  $\phi$  8mm)

## III .Instructions

1. Extract waste oil to oil storage tank:
  - (1) After selecting the connection between the suction pipe and the suction pipe, insert it into the engine lubricating oil sight hole, and turn off the suction pipe switch;
  - (2) Unscrew the switches on both sides of the vacuum, and close the oil drain switch to the hook at the same time;
  - (3) Connect the quick connector on the vacuum generator to the compressor, and the vacuum gauge will indicate the start of pressure reduction;
  - (4) When the air pressure of the vacuum gauge drops below -0.6bar, turn on the switches on both sides of the vacuum device, and the waste oil will be sucked out from the engine and flowed to the oil storage tank quickly through the suction pipe.
2. Waste oil is discharged from the oil storage tank
  - (1) Turn off the switches on both sides of the vacuum generator, unscrew the oil drain pipe underground switch and hook the waste oil drum with a hook.
  - (2) Open the compressed air switch with the quick connector compressed air on the top of the oil storage tank (note: the compressed air switch can be turned off when the safety valve starts to vent) waste oil is discharged through the hook.
3. It must be inflated gradually when pumping oil
  - (1) Reduce gas loss
  - (2) Reduce pressure faster
  - (3) Pumping oil faster

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## IV. Basic troubleshooting

1. The solution to the vacuum gauge without depressurization:

- (1) Check that the inlet pressure should be 6-8bar, and the air volume should be 200L/MIN (pipe diameter 6mm);
- (2) Check whether all valves that should be closed are closed;

2. The vacuum gauge has a solution for reducing pressure but not pumping oil:

- (1) Check whether the oil suction pipe and the suction pipe are well sealed;
- (2) Check whether the waste oil temperature is too low;
- (3) Check whether the oil pumping pipe switch is not turned on;
- (4) Check whether the suction pipe is blocked or touches the bottom of the box.

## V. Maintenance instructions

1. Regularly check the equipment for leakage, if any, it should be repaired immediately;
2. Always check whether the soft connection is sealed;
3. The waste engine oil in the oil storage tank should not be

stored for a long time, so as not to corrode the oil drum;

4. The surface of the equipment should be wiped clean with towels or cloth strips to keep the equipment tidy. After using the equipment, please place it in a cool place to avoid sunlight.

## VII. Precautions

1. Only qualified personnel can use the equipment after training;
2. Do not smoke near the equipment;
3. The temperature of the waste pumping oil of the pumping unit is suitable for 60-100 degrees, if it is within the temperature range Inside, the pumping speed is normal, if it is lower than this temperature, the pumping speed will not be able to Slow phenomenon.
4. The outlet pressure of the air compressor equipped with the pumping unit can be changed to 10bar, and the way through the conveying pipe When the channel reaches the inlet of the pumping unit, the air pressure is not less than 8bar. When the air pressure is lower than that, it will The vacuum degree is not high, resulting in the phenomenon of unable to pump or slow pumping speed;
5. When meeting the above two points, pay attention to using the most suitable oil pumping pipe. The copper pipe has The characteristics of good circulation, and the flexibility of the plastic tube is good, the large tube is 1.6L per minute, The small tube is 0.6L per minute, which is about 2-3cm long according to the ratio of the car's oil dipstick to the oil level.

You can suck the oil, but don't suck it to the end, otherwise it will bend upwards. If it exceeds the oil surface, There will be no oil pumping;

6. When the pumping pipe has been used for a long time, check whether the quick connector on the pipe is loose

(Operation: As long as one end of the tube is sealed and the other end is blown, it can be detected whether there is air leakage. If the air leaks, there will be a phenomenon that the oil cannot be pumped, and the impurities must be removed or a new pipe must be replaced);

7. Now it is found that some Japanese cars such as Toyota Camry have the oil dipstick above the parts and cannot be inserted into the oil suction pipe. If it is inserted hard, the oil cannot be drawn out, and the pipe will be broken. In order to avoid the loss of customers, it is best to use screws. Drain;

8. The vacuum generator on the pumping unit has a muffler. In case of oily water in the air compressor or improper operation, water or oil will be sprayed out. Only by solving the above problems can we avoid some unnecessary losses.

**Warning: Pay attention to the oil temperature. During the pumping process, when the oil temperature exceeds 70 degrees, you must strictly follow this manual. At the same time, it is recommended to use independent safety gloves.**