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## 100DT Small-sized Full-auto Under-hood Refrigerant Filling

### Machine

#### I. Features

Vacuum filling machine is typically used for refrigerant filling industry, to fill F12, F22, R134a and air conditioner lubricant. We've design the 100DT vacuum filling machine on the basis of latest Europe vacuum filling technique. PLC control(programmable) and photo electricity sensing is applied to this 100DT filling machine.

For the structure, you can install 1 to 4 filling heads in one working station, to better fit your productivity. Vacuumize function, dosing filling, sealing and recovery is perfectly combined is this vacuum filling machine.

#### II. Composition and parameters

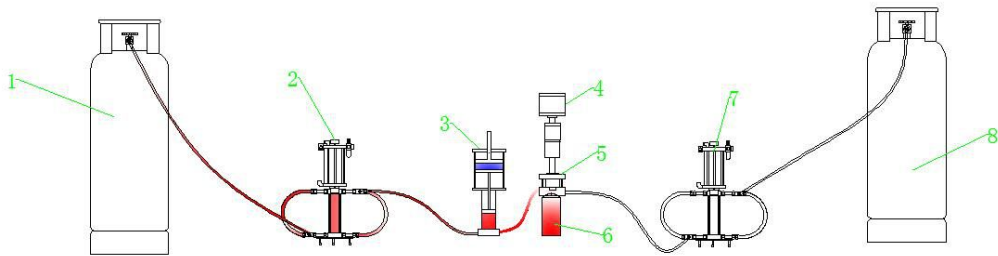
Outline (L*W*H) (mm)	1200*800*1700
Capacity (cans/hr)	800-1800
Gas fill (ml)	≤300 (Customizable)
Repeated filling accuracy	0.5%
Diameter of cans (mm)	35-65 (customizable)
Height of aerosol can (mm)	30-400 (customizable)
Valve (mm)	25.4 (1 inch)
Gas supply (MPA)	0.5-0.7
Max. gas consumption (m <sup>3</sup> /min)	1.3

#### III. Basic structure and working principle

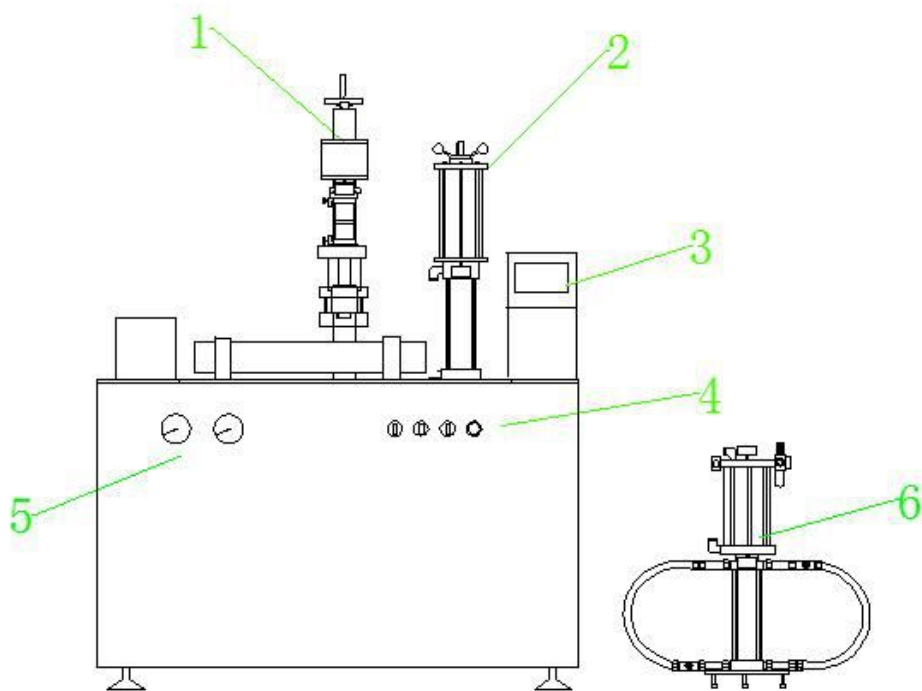
Refrigerant filling needs to be finished before closing, which is different from general filling method for aerosol products. This equipment consists of closing machine, metered filling machine, vacuum generator, delay cylinder, feeding booster pump, recycle booster pump, work benches, racks and pneumatic components. First, the lifting cylinder of the closing machine descends, and the closing claw holds down the valve cover. Meanwhile, the vacuum generator starts work so that the lifting cylinder ascends to the limit after the valve cover is adsorbed by the closing claw. At this time, the valve is separated a little from the can mouth and the metered

filling machine begins simultaneously to feed liquefied gas (e.g. refrigerant) through the gap between the valve and the can mouth. After aeration, closing is finished by the closing cylinder.

FR  
WCS



1. Gas holder;
2. Filling booster pump;
3. Filling metering cylinder;
4. Under-hood filling and closing machine;
5. Under-hood filling and closing end;
6. Aerosol can;
7. Recycle booster pump;
8. Recycle cylinder



1. Under-hood filling and closing machine;
2. Refrigerant filling metering cylinder;
3. PLC control panel;
4. Switching control panel;
5. Pressure gage;
6. Booster pump