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To avoid personal injury, property damage, or accidental damage to the product, please read all the information in this chapter before using the product.

Contents

1. PRODUCT FEATURE **1**
2. STRUCTURE AND PART NAMES **1**
3. PACKING DETAAILS **2**
4. NOTICE **2**
5. INSTALLATION **3**
6. OPERATION **4**
6.1 How to sucking oil with measuring cup? 4
6.2 How to discharge the oil from measuring cup to tank? 4
6.3 How to receive the waste oil? 5
6.4 How to discharge the oil from Tank? 5
7. SPECIFICATIONS **6**
Warranty **7**

1. PRODUCT FEATURE

- Principle: Using compressed air, vacuum generation device designed by patent technology will vacuum the transparent measuring cup or the oil storage barrel to produce a certain degree of vacuum, under the action of external air pressure, through the suction needle, the oil will be pumped into the transparent measuring cup or the oil storage barrel.
- Fast vacuum access, strong negative pressure capacity, belongs to the multi-purpose model, in the absence of lifting equipment or trench conditions, can be used.
- Using high-quality hardened transparent measuring cup, with high strength, high transparency, high temperature resistance, excellent weather resistance and corrosion resistance and other advantages, measuring cup with scale design, can be a glance at the oil quality for primary observation and oil measurement.
- All functions use compressed air as power source to ensure the safety, environmental protection and low consumption of this equipment.
- Independently develop and produce vacuum generators, which increase the working efficiency by more than 80% compared with similar products.
- A variety of specifications of pumping needles, pipe diameter can meet the maintenance needs of different types of vehicles.

2. STRUCTURE AND PART NAMES



Number	Name	Number	Name
A	oil drip pan	K	Drum intake valve
B	noise silencer	L	oil drum
C	Measuring cup switch	M	wheel
D	safety-valve	N	lifting poker
E	air inlet	O	Oil pumping needle
F	measuring glass	P	negative pressure gauge
G	handle	Q	Oil extraction pipe
H	oil exit pipe	R	one-way valve
I	Tool tray	S	Oil drum intake valve
J	vent valve	T	inspection glass for oil level

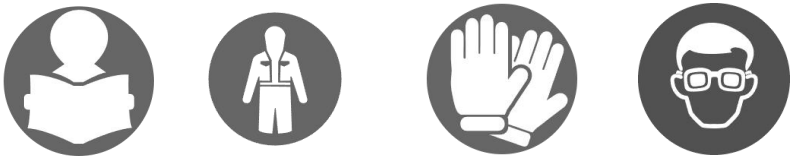
3. PACKING DETAAILS

1.English Manual: 1
2.Measuring Cup: 1
3.Oil Catch Pan: 1
4.Silencer: 1
5.Handle: 1
6.Oil Suction Wands: 5
7.Lifting Rod: 1
8.Oil Storage Tank
9.Wheels with 2 bakes: 4

4. NOTICE

- Air compressor must maintain stable 7 bar+ pressure.
- The gas supply pipe requires a diameter of 10mm.
- Ensure your air compressor produces dry gas.
- Do not use the equipment for functions not listed in this manual.
- Waste oil should be properly disposed of/recycled according to relevant regulations of the authorities.
- For repair services, please contact the dealer or manufacturer. Do not attempt to repair it yourself.
- The manufacturer will not be responsible for any damages to the machine or injuries to personnel resulting from non-compliance with regulations, and no warranty will be provided.
- Do not alter or disassemble equipment without authorization; serious consequences may occur, and the manufacturer is not liable.
- Avoid using the lifting rod as a handle; secure loose adjusting screws.
- Immediately shut off the air supply and inspect for leaks if detected during operation.
- Maintain air supply pressure within the specified range for proper equipment function.
- Handle extracted waste oil with care (40~80°C) to prevent burns.
- Wear gloves and goggles for eye and hand protection.
- Always keep the engine off during operation.
- Avoid extracting gasoline, diesel, or liquids with methanol, ketones, or flammables.
- After draining the used oil, make sure to quickly pour it from the measuring cup into the tank to keep the cup in good shape and make it last longer.
- No need to close the measuring cup drain valve after emptying waste oil.
- After operations, release equipment pressure, clean it, and handle carefully to prevent damage or injury.

- During operation, fireworks and firecrackers are strictly prohibited, and keep away from high temperature, high pressure, and flammable or explosive areas.



5. INSTALLATION

1. Attach wheels.
2. Rotate the measuring cup assembly in a clockwise direction to mount it onto the positioning seat of the oil storage tank. fix it in place after confirmed the correct orientation of the measuring cup assembly. (Figure 1)
3. Secure the lifting rod and tray by turning them clockwise. (Figure 2)
4. After installation, ensure lifting rod is perpendicular to the equipment
5. Adjust the height of the lifting rod tray by clockwise rotation for locking, counterclockwise rotation for release.



Figure 1



Figure 2

6. OPERATION

6.1 How to sucking oil with measuring cup?

1. Press and rotate the measuring cup valve (C) to the middle slot position to measuring cup valve (C).
2. Close the oil sucking valve (Q) and and attach the oil suction wands (O) of the corresponding model.
3. Attach the air source to the air inlet.
4. The negative pressure gauge holder (P) should move to 0.06 - 0.08 Mpa, then stop pressurize.
5. Insert the oil suction wands (O) into the engine compartment and open the Oil sucking valve W for sucking.



Figure 3

6.2 How to discharge the oil from measuring cup to tank?

1. When the oil level in the cup reaches the warning line, discharge the waste oil to tank.
2. Press and rotate to open valve (C), waste oil flows into the tank.

- To extend the life of the measuring cup, do not close the oil sucking and discharge valve if no discharging.
- If oil temperature exceeds 80°C, it may damage the equipment components.

6.3 How to receive the waste oil?

1. Use lifting equipment to lift the car to an appropriate height.
2. In a safe workplace, move the equipment under the vehicle engine, and align the pan with the engine oil discharge hole.
3. Unscrew the oil discharge plug of the vehicle engine for discharging.

6.4 How to discharge the oil from Tank?

1. Press and rotate the measuring cup press valve (C) to the middle slot position to close the measuring cup valve (C).
2. Close discharge hose valve (J).
3. Close the air inlet valve (K).
4. Connect the air supply to air inlet.
5. Open tank air inlet valve promptly to pressurize the oil tank. Once the oil tank pressure reaches a certain level, the non-return safety valve(R) will pop up and close automatically. Then open discharge hose valve (J) for discharge.
6. When pressure surpasses the threshold set for safety valve(U), it automatically releases pressure, closes the air inlet valve(K), and stops pressurization.
7. After discharging, unplug the air source and release tank pressure by opening inlet valve(K) .

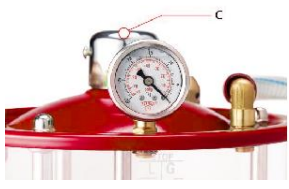


Figure 4



Figure 5

7. SPECIFICATIONS

Model	EOC70
Air supply pressure	6 ~ 8bar
Discharge pressure	0. 6 ~ 0.8bar
Air consumption	150L /Min
Vacuum degree	0 ~ 65cmHg
Tank volume	70L
Measuring cup capacity	10L
Oil Catch Pan capacity	10L
Working oil temperature	40 ~ 80°C
Oil suction wands	5pcs
Φ5*L700mm (Pvc , 1Pcs)	rate of pumping： 1.9 L/Min.
Φ6* L700mm(Pvc, 2Pcs)	rate of pumping： 3.7 L/Min.
Φ8*L700mm(Pvc, 2Pcs)	rate of pumping： 6.5 L/Min.
Packing	Carton/Foam
Carton size	530*530*990mm

Warranty

This WARRANTY applies only to customers and dealers who have purchased SmartSafe products through normal procedures.

Within one year from the date of delivery, SmartSafe Company shall guarantee the defects of its electronic products caused by materials or processes. Damage of the equipment or components caused by abuse, unauthorized modification, use for purposes other than the design of the product, or failure to operate in the way specified in the instruction shall not be covered by this warranty.

Disclaimer

The warranty mentioned above may supersede any other warranty.

Order notification

The replaceable parts and optional parts can be ordered directly from the suppliers authorized by SmartSafe. Please specify when ordering:

- Quantity ordered
- Part number
- Part name

Customer Service Center

If the equipment needs to be repaired, please send the equipment to SmartSafe, together with the purchase invoice and problem description. If the equipment is within the scope of the warranty, SmartSafe offer free maintenance; If the equipment is outside the scope of the warranty, SmartSafe will charge for maintenance and return freight.

Address of SmartSafe Company：

3310, Building 11, Tian 'an Yungu Industrial Park, Bantian Street, Longgang District, Shenzhen, Guangdong, China. Postcode: 518110

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