

**Rocker 300DC**  
Oil-Free Vacuum Pump



## Important notice

This instrument is designed for laboratory usage only. Please read this manual carefully before installing or operating this equipment. The instrument shall not be modified in any way. Any modification will void the warranty and may result in potential hazard. We are not responsible for any injury or damage caused by any non-intended purposes and modifying the instrument without authorization.

1. Check the voltage specified on the name-plate and ensure it matches the line voltage in your location.
2. The pump is not corrosion-proof. Please do not operate it with corrosive gases directly.
3. Install the instrument in a clean, dust-less and ventilated area under 40°C.
4. The Prote™ filter cartridge can prevent a large amount of liquid from overflowing into the pump. Please ensure the liquid level of flask not exceed safety level. Failure to comply can result in serious damage to the pump and void the warranty. If it occurs, please contact the distributor immediately for service.
5. The filter cartridge is used to absorb moisture and dust. Please replace the cartridge to maintain proper pumping efficiency when it is saturated.
6. To avoid damaging the pump easily, please vent the pump before starting the pump.
7. Don't incline the pump during work to prevent the Prote™ filter cartridge from blocking the air inlet.
8. This pump has a thermal protection device that automatically shuts-off when it becomes overheated.
9. The temperature of the surface of pump is very high after use or during work, please don't touch it to avoid being burnt.
10. Do not use any lubricant, which may damage the pump.
11. Never spray flammable or toxic materials.
12. If the supply cord is damaged, Please contact the manufacturer or your service agent for replacement to avoid hazard.

# Unpacking

When unpacking, notice if the pump is in good situation. If not, please contact the distributor or contact us by e-mail: [export@rocker.com.tw](mailto:export@rocker.com.tw) immediately for assistance.

## Assembly & Disassembly diagram



| Position | Designation                |
|----------|----------------------------|
| 1        | On/Off switch              |
| 2        | Muffler (Air outlet)       |
| 3        | Air Inlet                  |
| 4        | Vacuum Gauge               |
| 5        | Prote™ overflow protection |
| 6        | Moisture trap              |
| 7        | Drain valve (Regulator)    |
| 8        | Power cord                 |

# Operation

## **To use car power supply**

1. Switch on the electric power of car.
2. Use the included plug of power supply and plug into cigarette lighter socket that are found in most automobiles.
3. Turn on pump switch ①
4. Pump starts.

**Caution:** *always turn off the pump switch before removing plug of power supply from cigarette lighter socket when stopping operation to avoid short-circuiting pump.*

## **To use battery power supply:**

1. Use the plug cover ⑧ and plug into the plug of power supply of car.
2. Clamp the black charging clip on the negative “-“ battery terminal.
3. Clamp the red charging clip on the positive “+“ battery terminal.
4. Turn on pump switch.
5. Pump starts.

**Caution:** *Always check the actual symbols on the battery to ensure which terminals are positive “+” or negative “-“. Make sure to turn off the pump switch before removing the black or red charging clip from the battery terminal when stopping operation to avoid short-circuiting pump.*

## **To use with water filtration:**

1. To setup vacuum, adjust the regulator. ⑦
2. Once all tubes are connected, the pumping function can be activated after pressing on/off ① button.

**Warning:** *when pump is used in water filtration, please be noted, never let the liquid level of flask exceed safety level. Failure to comply could result in serious damage to the pump and void the warranty. If it occurs, please contact the distributor immediately for service.*

## Maintenance

### **To replace filter cartridge**

1. Please replace the cartridge when it is saturated with moisture or particle.
2. Please remove the moisture trap ⑥ by rotating it counterclockwise.
3. Replace the cartridge by the same way.

## Ordering Information

- |           |  |
|-----------|--|
| 167330-00 | Rocker 300 DC Vacuum pump,DC12V                    |
| 167301-06 | Moisture Trap / Vacuum Regulator                   |
| 167301-07 | Prote™ filter cartridge                            |
| 167320-30 | Converting kit for Rocker 300DC to enable pressure |