

**Chemker 411**  
Chemical Resistant  
Vacuum Pump



## Important notice

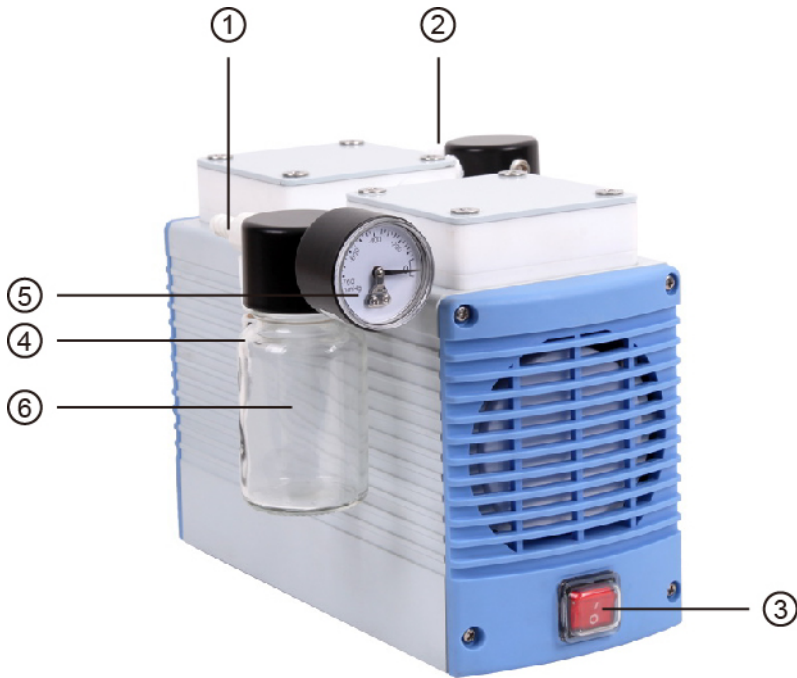
This instrument is designed for laboratory usage only. Please read this manual carefully before installing or operating this equipment. The instrument shall not be modified in any way. Any modification will void the warranty and may result in potential hazard. We are not responsible for any injury or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

1. Check voltage specified on name-plate on the bottom. Make sure if it matches the line voltage in your location.
2. Install the instrument in a clean, dust-less and ventilated area under 40°C.
3. To enable suction function, connect the inlet of the pump to the outlet of objective equipment with a high-pressure hose.
4. Never use the pump with any flammable gas or toxic material.
5. When finish pumping, please do not turn off the pump at once and continue to run the vacuum pump for at least two minutes in order to draw out the mist and tiny liquid to prolong the service life of the pump.
6. If the pump does not work when turning on the switch, please release the vacuum and turn-on again. If still fail to start the pump, there may be a problem in the switch or motor, please contact local distributor for help immediately.
7. In case of any damage with the pump, please directly contact local distributor or us for service. Do not repair it by yourself 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.

## Main Part Diagram



Position	Designation
1	Air inlet
2	Air outlet
3	On/Off switch
4	Vacuum regulator
5	Vacuum gauge
6	Vapor trap

# Operation

## Operating procedure

1. Once all tubes have been connected to Inlet (1) · Outlet (2) properly then activate the pumping function by pressing (3) on/off button.
2. To adjust vacuum of the pump, an optional vacuum regulator/ moisture trap is needed.
3. Check liquid level of vapor trap (6) daily, and drain the liquid when it is up to the neck of bottle.

**Warning: When pump is used in water filtration, please do not make 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.**

## Setup Vapor Trap / Vacuum Regulator (Option)

Vapor trap / vacuum regulator is an optional item used to adjust vacuum and absorb moisture and particle. Please setup "glass" vapor trap / vacuum regulator if operate with corrosive gases.

### Chemker 411, setup (glass) vapor trap / vacuum regulator



Remove the Teflon tier connector at side of cylinder head with a spanner.



Fix the moisture trap at the location of the Teflon tier connector removed from Step 1.



Fix the glass bottle. Finished

## Ordering Information

- 169411-11 Chemker 411 Vacuum pump, AC110V/60Hz
- 169411-22 Chemker 411 Vacuum pump, AC220V/50Hz
- 169301-06 Vapor trap / regulator
- 169311-06 Vapor trap
- 169410-62 Chemker 410/411 repair kit