

Tanker 130/150/215/230
Rotary Vane Vacuum Pump

Important notice

This instrument is designed for laboratory usage only. Before setting up and operating the Vacuum Pump, please read these instructions carefully to familiarize with all installation and operation process. Any individual shall be well trained by reading the instructions or by technical people from authorized distributors before operating the instrument.

The instrument shall not be modified or altered in any way. Any modification or alteration will void the warranty, void the regulatory certifications and create potential safety hazard. We are not responsible for any injury or damage caused by using the instrument for any non-intended purpose, or modifying the instrument by any person who is not authorized.

Unpacking

In case of damage or lack of any part when unpacking then please contact our local distributor or contact us by e-mail: export@rocker.com.tw with model and series number for immediate assistance.

Vacuum Pump	x 1
Lubricant (500ml)	x 1
Instructional manual	x 1
Warranty card	x 1

Assembly & Disassembly diagram



Installation

1. Ensure to check voltage specified on the nameplate at the bottom of the pump. Make sure it matches the line voltage on your location.
2. Install the pump in a clean, dust-less and ventilated area where the ambient under 40 °C.
3. Connect (4) air inlet with a high-pressure hose as short as possible and check if all the connections are tightly sealed and without air leakage.
4. Filling lubricant: remove (2) oil filler cap and fill lubricant slowly by keeping watch on (3) oil level window. Do not exceed the upper liquid level; otherwise, volume oil mist will spray out in operation. Then fix and tighten (2) oil filler cap after refilling.
5. Installation of oil mist filter: remove (2) oil filler cap and replace it with oil mist filter.

Warning

1. The pump is NOT in “chemically-resistant” design. Do not use the pump with organic or corrosive gases.
2. Never use the pump with any flammable gas or toxic material.
3. When used with liquid filtration, please always prevent liquid from being drawn into the pump to cause severe damage to the pump. Which shall not fall in our warranty scope. In case of such condition, please stop the operation and contact us for assistance immediately.
4. Oil mist filter (optional purchase) is used to absorb oil mist to reduce laboratory pollution. Please ensure to replace it periodically.
5. If there is no movement after the pump is switched on, please turn off the power first and release the vacuum then restart it. If still no movement, the power supply or motor may have certain problem, please contact us immediately.
6. The pump is equipped with thermal protection device that will automatically shut down the power whenever the operation temperature of the pump is too high.
7. The pump may remain at a high temperature while in operation or being stopped just now, please do not touch it.
8. It shall not fall within our warranty scope if any damage caused by using other branded lubricants.
9. Do not draw in any air at too high temperature (above 80 °C); other cooling device in front of the inlet.

Operation

1. Turn on (1) the power switch and run the pump for 1 min. then check through (3) oil level window if the current oil level is between Max. and Min. line.
 - **If under Min. line then make sure to add Tanker SC lubricant (187100-10).**
 - **Steps for addition of the lubricant: screw off (2) oil filler cap then pour the lubricant into tanker cautiously and ensure the oil level is not above Max. line. Otherwise, it can spray much oil mist while the pump is in operation.**

2. Check whether the lubricant is clean or not. It should be replaced with new one if it becomes turbid.
 - **Steps for the replacement of the lubricant: Turn on the pump and run it for 30 min. to reduce oil viscosity → Turn off the pump → Open (5) oil drain plug and drain the waste oil → Open (4) air inlet → run the pump for 1-2 min. to clean up the remaining waste oil in the pump → close (5) oil drain plug → Add new lubricant up to the proper level → Screw on (2) oil filler cap.**
 - **Ensure to dispose of the drained oil in compliance with local environmental regulations.**

3. Ensure that the whole inlet system is well connected and without leakage then press (1) power on/off to start the pump.

4. Press (1) power on/off to turn off the pump after the operation is finished.
 - **Please make sure to release the pressure before turning off the pump to prevent oil from being sucked reversely.**
 - **Please remove the power plug from the power outlet if not in use promptly to save power.**

Basic Troubleshooting

Failure to start :

Check if the input voltage is within + or (-) 10%. The improper input voltage will cause a failure to start.

Oil leakage:

- Ensure that the leaking oil is not the residues of oil.
- It may need to replace washer or O-ring of the tanker with new ones. If it leaks at (5) oil drain plug then wrap the seal tape on it.

Insufficient Vacuum:

- Check if the lubricant is clean and replace the new lubricant by following "Steps for the replacement of the lubricant" mentioned above.
- Check if the current oil level is within the proper level position. Do not keep the current oil level at a higher position; as the pump starts to run, the operating temperature can inflate the lubricant and make the oil level higher than Max. line. Whenever checking the current oil level position through (3) oil level window, always make sure to shut (4) air inlet and start the pump. If the oil is short, please add it immediately.
- Check the whole pipe system to see if all are connected tightly.

Ordering Information

- 187130-11 Tanker 130 Rotary vane vacuum pump, AC110V/60Hz
- 187130-22 Tanker 130 Rotary vane vacuum pump, AC220V/50Hz
- 187150-11 Tanker 150 Rotary vane vacuum pump, AC110V/60Hz
- 187150-22 Tanker 150 Rotary vane vacuum pump, AC220V/50Hz
- 187215-11 Tanker 215 Rotary vane vacuum pump, AC110V/60Hz
- 187215-22 Tanker 215 Rotary vane vacuum pump, AC220V/50Hz
- 187230-11 Tanker 230 Rotary vane vacuum pump, AC110V/60Hz
- 187230-22 Tanker 230 Rotary vane vacuum pump, AC220V/50Hz
- 187100-05 Tanker SC lubricant, 500ml/pk
- 187100-10 Tanker SC lubricant, 1000ml/pk
- 187100-30 Exhaust filter for oil mist