



K10 Rotary vane vacuum pump

Please read the User Manual carefully before use, and follow all operating and safety instructions!



user manual

english

User Manual



K10 series Rotary vane vacuum pump,
127 l/min, 0,1 torr

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.

Service

In order to guarantee this equipment Works safely and efficiently, it must have a regular maintenance. In case of any faults, do not try to repair it yourself. If help is needed, you can always contact your dealer or Labbox via www.labbox.com

Please provide the customer care representative with the following information:

- Serial number
- Description of problem
- Your contact information

Warranty

This instrument is warranted to be free from defects in materials and workmanship under normal use and service, for a period of 24 months from the date of invoice. The warranty is extended only to the original purchaser. It shall not apply to any product or parts which have been damaged on account of improper installation, improper connections, misuse, accident or abnormal conditions of operation.

For claim under the warranty please contact your supplier.

Unpacking

In case of damage or lack of any part when unpacking then please contact your local distributor with model and series number for immediate assistance.

Vacuum Pump	x 1
Lubricant (500ml)	x 1

Assembly and disassembly diagram



Installation

1. Ensure to check voltage specified on the nameplate at the bottom of the pump. Make sure if 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); otherwise, make sure to install a 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 lubricant (VACU-KLB-500).**
 - **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.

Order information

VACU-K10-001	Rotary vane vacuum pump, 127 L/min, 0,1 torr, LBX K10
VACU-KLB-001	Lubricant oil for LBX K pump, 500 ml
VACU-A35-001	Oil mist outlet for LBX K

Nota importante para los aparatos electrónicos vendidos en España

Instrucciones sobre la protección del medio ambiente y la eliminación de aparatos electrónicos:



Los aparatos eléctricos y electrónicos marcados con este símbolo no pueden ser eliminados en forma de residuos urbanos.

De conformidad con la Directiva 2012/19/UE, los usuarios de la Unión Europea de aparatos eléctricos y electrónicos, tienen la posibilidad de devolver sus RAEE para su eliminación al distribuidor o fabricante del equipo después de la compra de uno nuevo. La eliminación ilegal de aparatos eléctricos y electrónicos es castigada con multa administrativa.

Remarque importante pour les appareils électroniques vendus en France

Informations sur la protection du milieu environnemental et élimination des déchets électroniques :



Les appareils électriques et électroniques portant ce symbole ne peuvent pas être jetés dans les décharges.

En réponse à la réglementation, Labbox remplit ses obligations relatives à la fin de vie des équipements électriques de laboratoire qu'il met sur le marché en finançant la filière de recyclage de ecosystem dédiée aux DEEE Pro qui les reprend gratuitement (plus d'informations sur www.ecosystem.eco).

L'élimination illégale d'appareils électriques et électroniques est punie d'amende administrative.

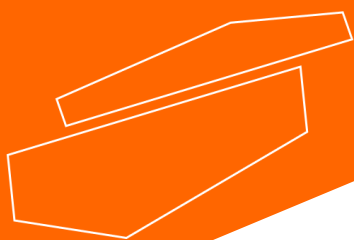
Nota importante per le apparecchiature elettroniche vendute in Italia

Istruzioni sulla protezione ambientale e sullo smaltimento dei dispositivi elettronici:



Le apparecchiature elettriche ed elettroniche contrassegnate con questo simbolo non possono essere smaltite come rifiuti urbani.

In conformità con la Direttiva 2012/19 / UE, gli utenti dell'Unione Europea di apparecchiature elettriche ed elettroniche hanno la possibilità di restituire i propri RAEE per lo smaltimento al distributore o al produttore di apparecchiature dopo averne acquistato uno nuovo. La rimozione illegale di apparecchiature elettriche ed elettroniche è punibile con una sanzione amministrativa.



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