

Elveflow User Guide

LabTech Vacuum pump

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SYMBOLS USED IN THIS DOCUMENT



IMPORTANT INFORMATION. Disregarding this information could increase the risk of damage to the equipment, the risk of personal injuries, and influence your user experience.



HELPFUL INFORMATION. This information facilitates the use of the instrument and contributes to its optimal performance.



ADDITIONAL INFORMATION is available on the internet or from your Elveflow representative.





PLEASE READ THE ENTIRE DOCUMENT CAREFULLY BEFORE STARTING ANY EXPERIMENT.

By disregarding the document, the user might be exposed to dangerous situations and the instrument can undergo permanent damage.

Elveflow cannot be held responsible for any damage related to the incorrect use of the instruments.



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1. Introduction

To supply negative pressure to a device, a vacuum source might be required. Elveflow provides different types of compressor and pumps, including the LabTech pump.

This user guide will go through the different steps to install the device.

2. Package content

Before setting up your LabTech pump, please check the package contents to ensure you received all the items below.

Each package includes the following:



LabTech vacuum pump



Pump filter



Rubber tubing and fittings



Power supply unit adapted to your country



Defects or missing items:

Please report any defects or missing items **within one month** of your order receipt.

[Create a ticket](#)

Elvesys provides two types of pumps, 120V/60 Hz and 230V/50Hz, depending on the country's specifications.



Check that the power requirements of your pump are adapted to your country's specifications.

3. Set-up of the equipment

LabTech vacuum pump installation

A vacuum source is required for the OB1 equipped with a dual regulator or with a desiccator and a spin coater.



The vacuum pump kit includes an intake filter and rubber tubing (Fig 1). Cut the rubber tubing in two pieces and install the filter in between. Then connect the rubber tubing to the "suction" port at the back of the vacuum pump.

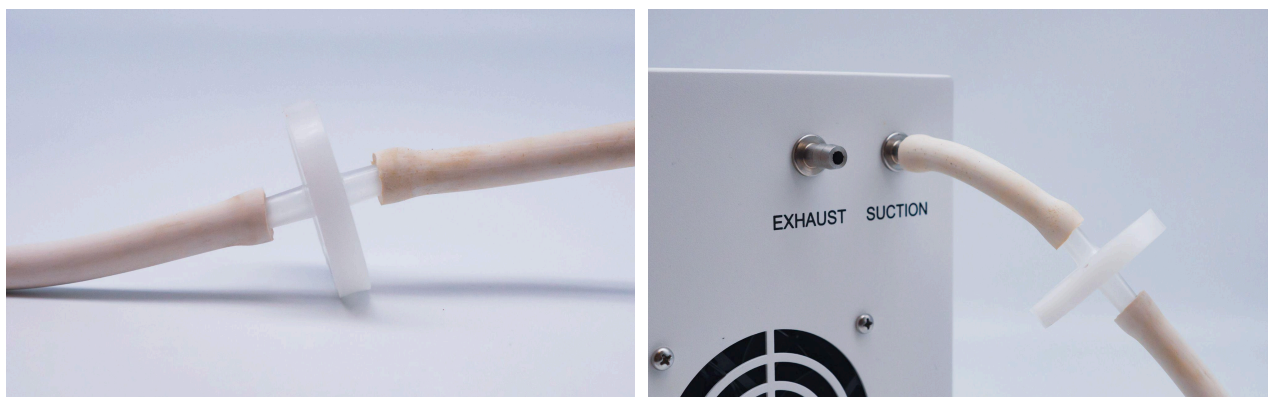


Fig 1. Intake filter installation

Create the mounting (Fig 2.d) by connecting the barbed male straight adapter (Fig 2.a), the brass coupler (Fig 2b), and the pneumatic push-in 6 mm OD tubing (Fig 2.c). Insert it into the pump rubber tubing and connect 6 mm OD pneumatic tubing to your equipment. The final mounting can be seen in Fig 2.e.

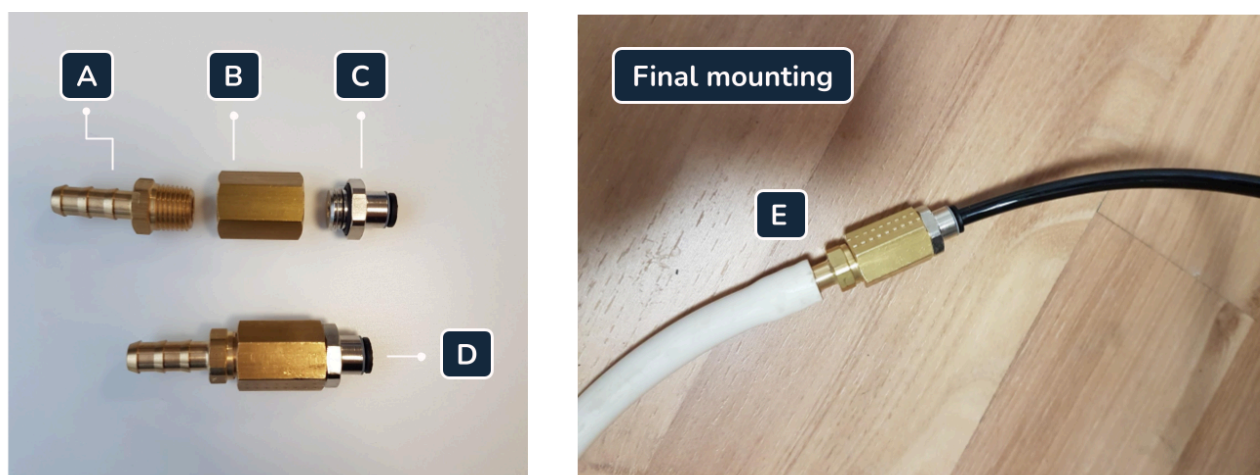


Fig 2. Required elements to connect the vacuum pump tubing to the OB1 tubing.

Connect the 6 mm OD tubing to the OB1 vacuum inlet or to any other instrument (Fig 3).

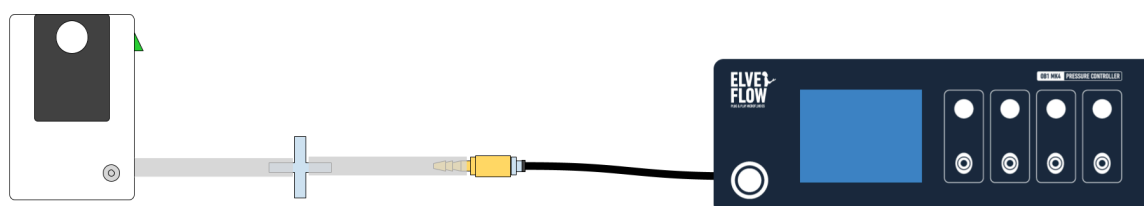


Fig 3. Vacuum line assembly and connection to the OB1 or any instrument.



Connect the vacuum pump to the power supply

Once the pump is installed and connected to your device, switch on the LabTech vacuum pump. The level of vacuum is indicated on the manometer at the front of the pump (Fig 4). For example, if the needle is on 400 mbar, it means that the vacuum is at -600 mbar.

Note that the needle is at 1000 mbar (atmospheric pressure) when the pump is off.



Fig 4. Manometer of the vacuum pump

4. Preventive maintenance

This vacuum pump requires low maintenance.

If you observe a decrease of vacuum delivered to your equipment, it may be because the filter is clogged and needs to be changed. We then advise to replace the filter depending on the use.

5. Customer Support

If you notice a problem with your LabTech pump or think it is not working properly, contact us at customer@elveflow.com, for specific instructions on how to properly operate your system.





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