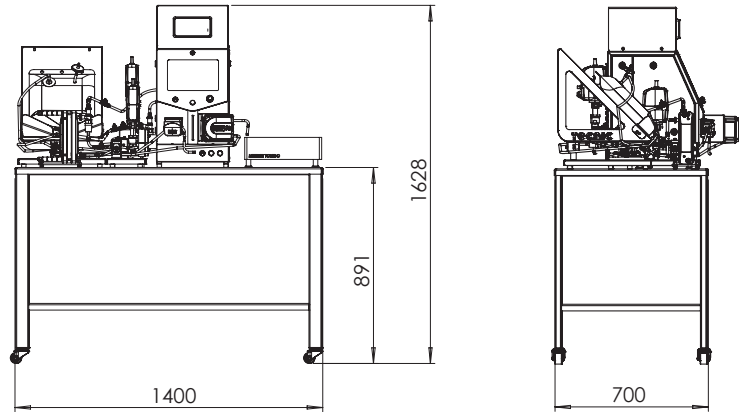


## eLAB Tangential Flow Filtration

Technical information

General measurements for eLAB structure (mm)



\*The scale and table are optional

### General Information

Scalable	For eBAGs for 2 L to 5 L
eBAG Bag	0 - 0.5 bar
Conductivity sensor	0.1 - 100 mS/cm
Filtration surface	0.1 - 0.7 m <sup>2</sup>
Flowmeter	0 - 10000 mL/min
Process pump	0.33 - 10 L/min
Peristaltic pump	4 - 20 mA
Pressure sensor	-0,62 to 4,76 bar
Automatic valve	4 - 20 mA
Load cell	0.05 - 50 kg



Do you need more information?  
We are here to help you.

Headquarters, Riudarenes - Spain

Spain:

sales@tecnic.eu  
+34 972 877 327 | +34 619 768 265 | +34 618 614 665  
tecnic.eu

America

Chile:

contacto@platech.cl  
+519 8170 9025  
platech.cl

Oceania

Australia:


info@stainlesstankandmix.com.au  
+61 (02) 9820 2112 | +61 (02) 9603 1223  
stainlesstanksandmixers.com.au/



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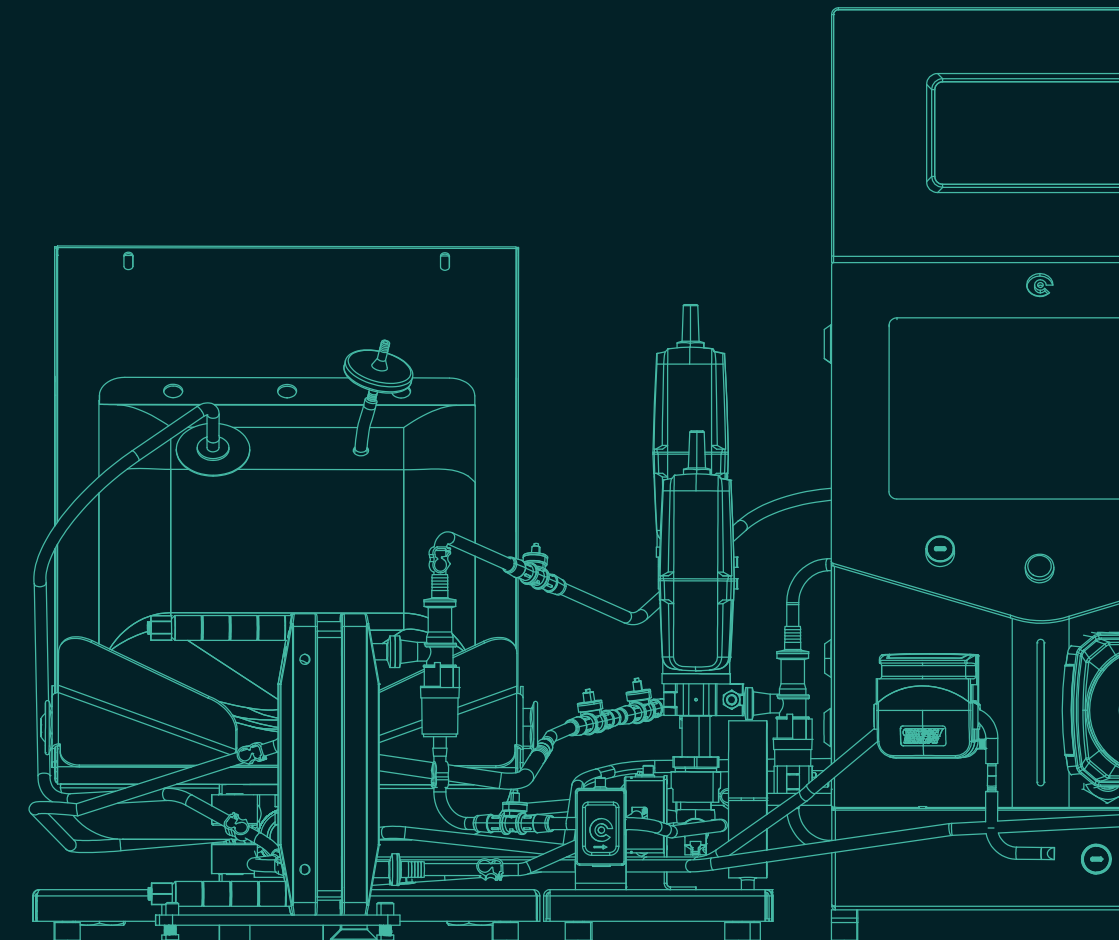
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eLAB 

# Tangential Flow Filtration SU

Portability and Ease of Use:  
The Plug&Play Equipment




# Tangential Flow Filtration

The TFF system enables a fast and efficient process for separation and purification of biomolecules. Fluid filtration can be either microfiltration or ultrafiltration, depending on the membranes used, and is performed in parallel to the membrane and through a pressure difference, allowing smaller volume components to pass through the filter while larger volume ones circulate along the membrane, preventing membrane fouling. This allows for continuous flow and increased yield.

The product that passes through the filter is called permeate, while the one that continues its trajectory is called retentate, which is recycled back into the feed.

The TFF equipment consists of two main modules. The first one is the filtration assembly, which includes a single-use plastic tank with a volume of 2 to 5 liters that contains the product to be filtered and a filtration membrane with a surface up to 0.7 m<sup>2</sup>. The bag is supported on a support where it is located by a load cell and has a conical bottom to prevent product loss. The plastic tank is fixed on a support and contains the tangential filter that purifies the biomolecules. Both the filter and the support are gamma irradiated beforehand.

## Applications

 Recombinant protein

 Vaccines

 Monoclonal Antibodies

 Stem Cells

 Gene Therapy

The TFF equipment is designed with different components that vary in size and weight. To give a better idea of what these components are, here are the dimensions and weights of each part:

Firstly, there are three different sizes of eBAGs that are used as the filtration containers. eBAG 2 L has a working volume of 2 L and a total volume of 2.2 L. eBAG 5L has a working volume of 5 L and a total volume of 5.5 L.

The control tower, which is used to manage the equipment, does not have a specific volume or weight as it varies depending on the specific model used. However, the tower is estimated to weigh around 35 kg.

Knowing the dimensions and weights of each component of the TFF equipment can help with planning and logistics for setting up and moving the equipment. It is important to take these factors into consideration when selecting a location and planning the assembly of the equipment to ensure that it can be done safely and efficiently.

More information:

