

## Installation guide for the CellRetention-250-kit-Modular

Purpose of the kit: take advantage of the Modular Process-Control-System with its 250 ml batch SUB and upgraded the batch SUB to Perfusion-**SUBmerged** / ATF process mode. The SUB is controlled by Modular Process-Control-System (PCS). The Thalia LASER guided diaphragm Single-Use-Pump function is fully controlled by the Clotho Drive Unit.

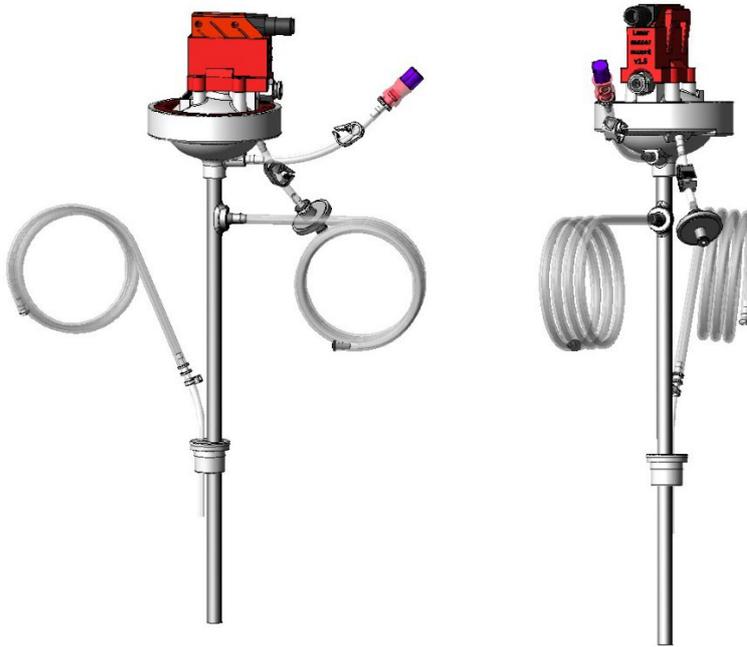
- Find the Clotho manual - <https://perfusecell.com/download-product-info/manuals/>
- Info around Thalia - <https://perfusecell.com/perfusion-bioreactor/diaphragm-pumps-34>
- CellRetention-250-kit-Modular online info - <https://perfusecell.com/perfusion-bioreactor/cellretention-atf-submerged-31/cellretention-250-modular>
- SepraPor - <https://perfusecell.com/perfusion-support/membrane-filter-background-38/seprapor-hff-info>

The kit is delivered dual bag packed, E-beam irradiate and consist of:

- The Thalia LASER guided diaphragm pump with the red LASER support and 2 barb connections with swabable valves for sampling and trapped gas release
- The SepraPor size C012 Hollow-Fiber-Filter (HFF) with in centre or in one end permeate port with 1 meter closed thermoplastic hose
- White silicone plug with 1 meter closed thermoplastic hose for addition



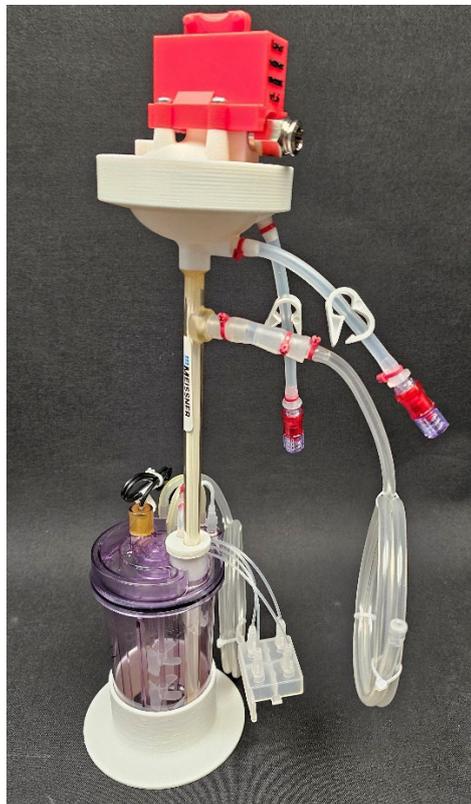
The following simple steps is a guide to install the kit into the 250 ml SUB for Modular. Assuming a laminar flow hood is available. A few drops of a certified fluid for lubricating the HFF cartridge reducing friction against silicone plug significant during HFF insert.



**Steps:**

1. **Unpack the irradiated CellRetention kit under a hood in the laboratory**
2. **Remove transparent sample silicone plug from the 250 ml SUB vessel**
3. **Insert white silicone plug from the CellRetention kit in 250 ml vessel**
4. **Add 2 liquid drops (liquid that won't harm the cells/process) on the HFF cartridge front before pushing the HFF gently through the silicone plug hole**
5. **Inserting the HFF, orient output permeate correctly and place the HFF so the tip is at the wanted distance from SUB bottom – like 10 mm – 3/8"**





END