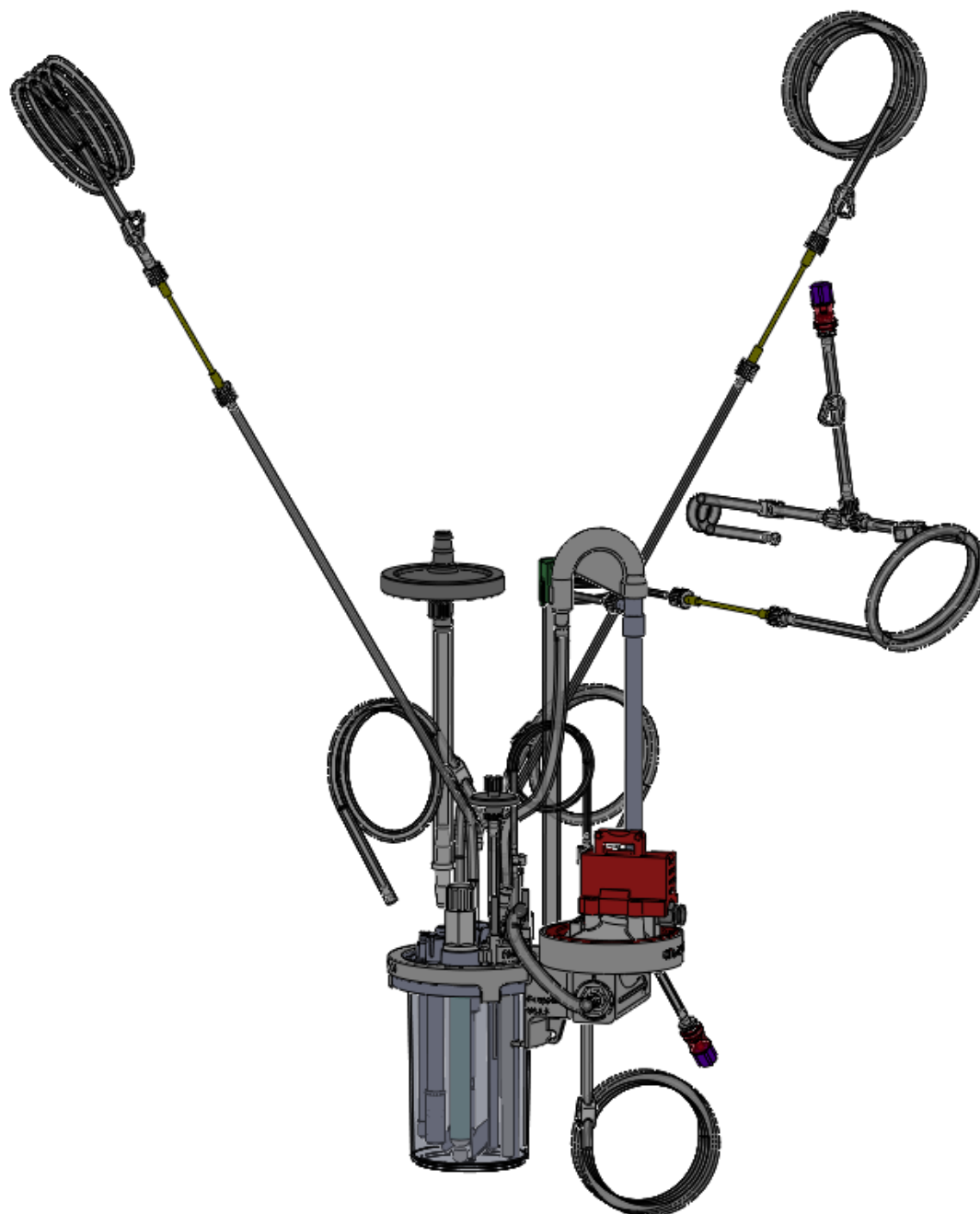


Product code: 3CB-P-SUB-D-B-v10B

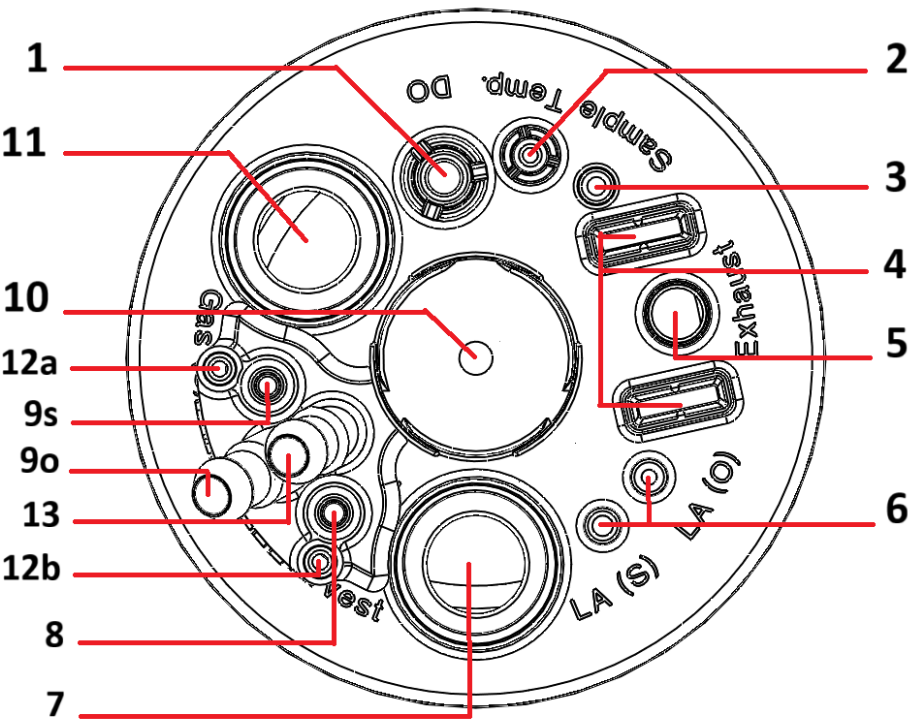
Revision 1.1

Customer name and address	
Date of contact	
Number of SUB's	
Time of delivery, week from order	
Configurator Version 10	Model B.
Order number	



Dokumentnummer:	Emne:				
K08.2.3.1.7	Produktionsordre formular – Kundespecifikt produkt				
Version:	Redaktør:	Dokumentansvarlig:	Godkendt af:	Godkendt (dato):	Side:
1	SH	SH	PS	2025-03-11	1

Head plate layout:



Dokumentnummer:	Emne:				
K08.2.3.1.7	Produktionsordre formular – Kundespecifikt produkt				
Version:	Redaktør:	Dokumentansvarlig:	Godkendt af:	Godkendt (dato):	Side:
1	SH	SH	PS	2025-03-11	2

Port description:

Port #	Label	Purpose	Tubing
1	Port for DO sensor	DO.	N/A.
2	Non-invasive well	for Temp sensor.	N/A.
3	ID2,4 Dip-tube, close to bottom. - Sampling port	Sampling port.	Keep original 70 mm silicone hose (OD¼"), with swabable valve.
4	Mount condenser	DasGip hose cooler.	N/A.
5	ID6,4. - Exhaust	Exhaust line.	Keep original silicone hose, straight through connector (6060), ID6.4 (1/4") x OD11.1 (7/16") x 150 mm C-Flex hose, with OD65 (26cm ²) sterile filter.
6 O – (LA O)	ID2 Drip-guide. - Antifoam & - Perfusion - Liquid Addition overlay	Antifoam and Perfusion - Liquid Addition Overlay.	Original 70 mm silicone hose (OD¼"), Y-connection (Y230): - ID3.2 (1/8") x OD6.4 (1/4") x 500 mm C-flex hose, clamp and closed with plug. (PIP230) - ID1.6 x OD4.8 x 300 mm silicone hose, male luer lock (MTLL220), pump tubing from EP (EP pn: 78510118), male luer lock (MTLL230), ID3.2 (1/8") x OD6.4 (1/4") x 1000 mm C-flex hose, clamp and closed with plug. (PIP230)
6 S - (LA S)	ID2,7 Dip-tube, close to bottom. - Inoculation addition & - Perfusion - Liquid Addition	Inoculation addition & Perfusion - Liquid Addition.	Original 70 mm silicone hose (OD¼"), Y-connection (Y230): - ID3.2 (1/8") x OD6.4 (1/4") x 500 mm C-flex hose, clamp and closed with plug. (PIP230) - ID1.6 x OD4.8 x 300 mm silicone hose, male luer lock (MTLL220), pump tubing from EP (EP pn: 78510118), male luer lock (MTLL230), ID3.2 (1/8") x OD6.4 (1/4") x 1000 mm C-flex hose, clamp and closed with plug. (PIP230)
7	PG13,5 port	BioMass sensor (Pico)	PG13.5 plug for Pico sensor.

Dokumentnummer:	Emne:				
K08.2.3.1.7	Produktionsordre formular – Kundespecifikt produkt				
Version:	Redaktør:	Dokumentansvarlig:	Godkendt af:	Godkendt (dato):	Side:
1	SH	SH	PS	2025-03-11	3

Port #	Label	Purpose	Tubing
8	ID2,7 Dip-tube, set at bottom. - Harvest bottom	Bleed removal.	ID3 x OD6 x 40 mm silicone hose, straight through connector (N013-007), ID1.6 x OD4.8 x 550 silicone hose, male luer lock (MTLL220), pump tubing from EP (EP pn: 78510118), male luer lock (MTLL230), ID3.2 (1/8") x OD6.4 (1/4") x 1000 mm C-flex hose, clamp and closed with plug. (PIP230)
9 O	ID5 Dip-tube, close to bottom. - TFF Suction	TFF Suction.	ID5 x OD8 x 160 mm silicone hose to pump inlet.
9 S	Gassing bottom	Sparger.	ID3 x OD6 x 70 mm silicone hose, female luer lock (FTLL230), OD25 sterile filter and male luer lock plug. (MTTLP)
10	Magnetic coupling	Servo motor.	N/A.
11	PG13,5 port	Selectable sensor, pH, K8.	Hamilton K8 sensor, 120 mm long.
12 A	SS lvl-sensor	Liquid monitoring (Estimated 65 mm from bottom, at 200ml mark)	For banana plug.
12 B	SS lvl-sensor	Liquid monitoring (Estimated 9 mm from bottom)	For banana plug.
13	ID5 Dip-tube, 40 mm from bottom. - TFF Return	TFF Return.	ID5 x OD8 x 200 mm silicone hose to filter barb.

Dokumentnummer:	Emne:				
K08.2.3.1.7	Produktionsordre formular – Kundespecifikt produkt				
Version:	Redaktør:	Dokumentansvarlig:	Godkendt af:	Godkendt (dato):	Side:
1	SH	SH	PS	2025-03-11	4

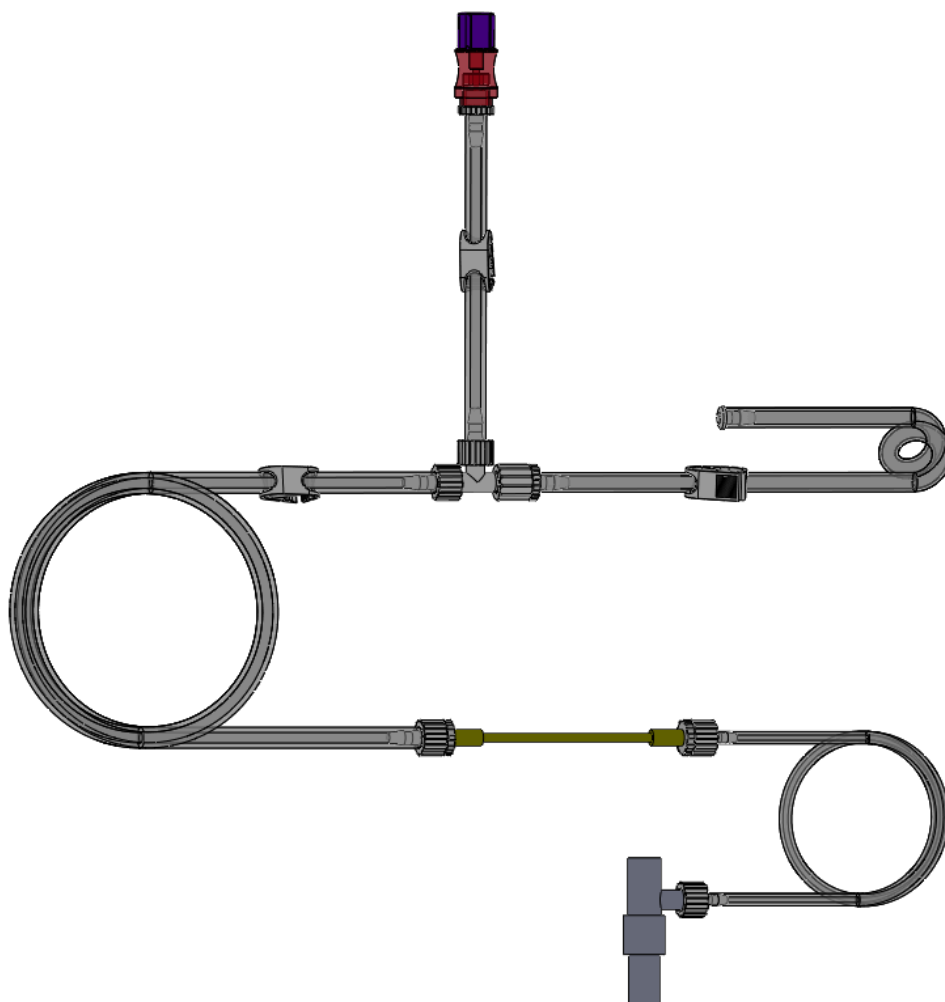
TFF assembly:

TFF: Repligen Spectrum pn: "D02-P20U-10-N" -0.2µm pore size with ID1.0 mm fibers, with a surface area of 88 cm², 4 x Luer-loc .

Bottom Permeate; is standard male Luer-lock which is glued.

Top Permeate (Harvest); ID1.6 x OD4.8 x 450 mm silicone hose, male luer lock (MTLL220), pump tubing from EP (EP pn: 78510118), male luer lock (MTLL230), ID3.2 (1/8") x OD6.4 (1/4") x 600 mm C-flex hose, clamp, T-piece (LT878), male luer lock (MTLL230):

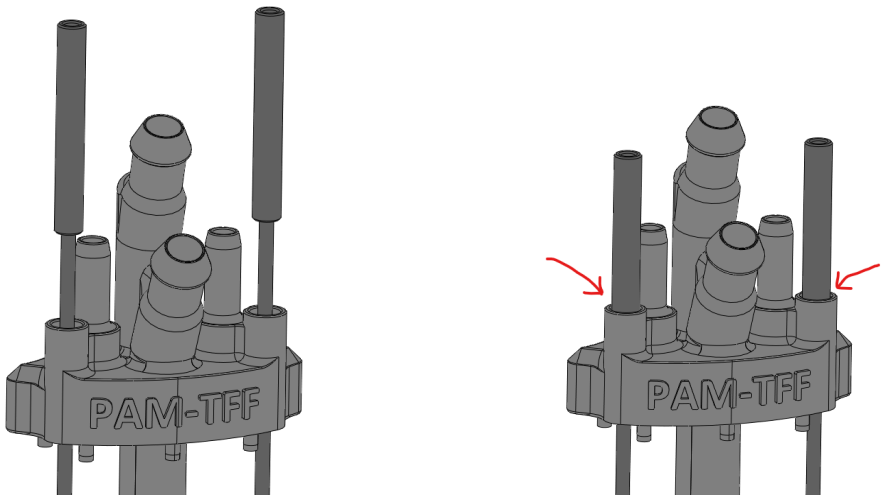
- Male luer lock (MTLL230), ID3.2 (1/8") x OD6.4 (1/4") x 100 mm C-flex hose, clamp, female luer lock (FTLL230), and swabable valve.
- Female luer lock (FTLL230) + FSLLR, ID3.2 (1/8") x OD6.4 (1/4") x 400 mm C-flex hose, clamp and plug. (PIP230)



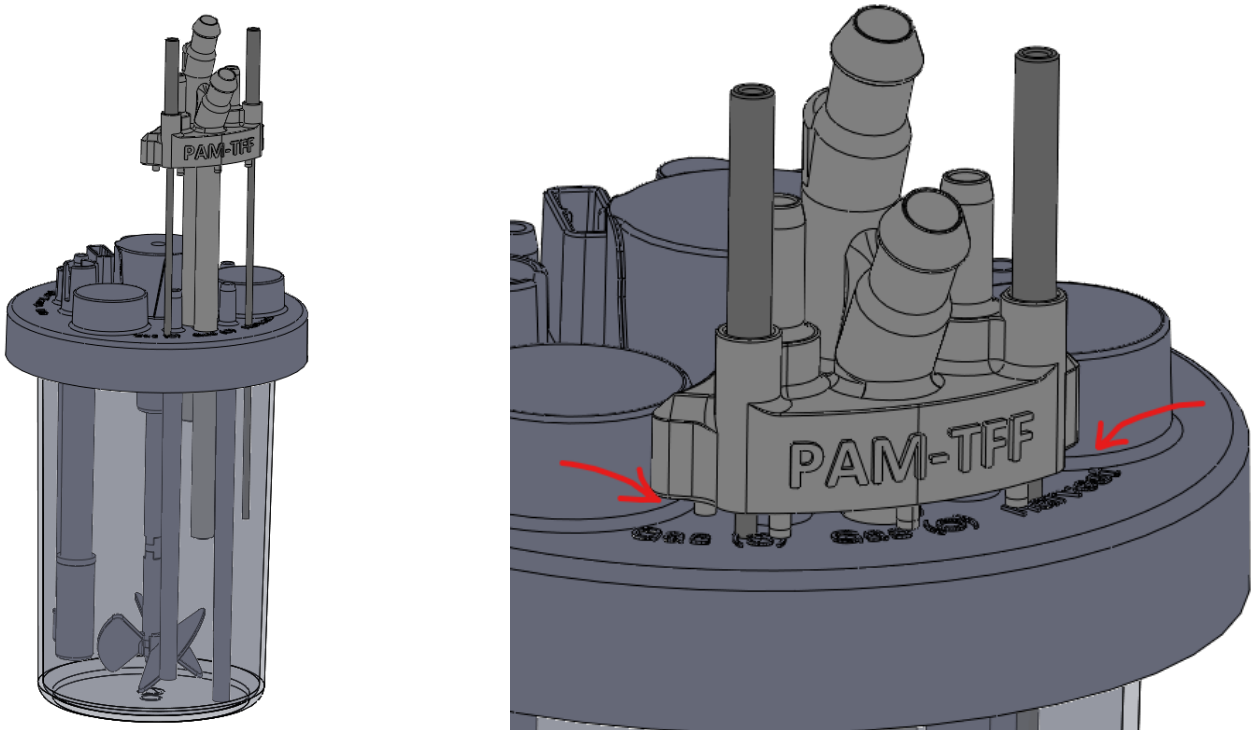
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K08.2.3.1.7	Produktionsordre formular – Kundespecifikt produkt				
Version:	Redaktør:	Dokumentansvarlig:	Godkendt af:	Godkendt (dato):	Side:
1	SH	SH	PS	2025-03-11	5

Mounting Port-Addition-Mount (PAM-TFF)

Insert SS-rods in the PAM-TFF 3D-print and glue in place with a small amount of UV-glue as shown in picture below. (shortest SS-rod in the left side – Port 12A)



Position the PAM-TFF so that both dip-tubes and SS-rods are inside the vessel. Then dispense a suitable amount of silicone on to the headplate filling up the area of the PAM-TFF. Carefully press down the PAM-TFF until its “legs” touches the vessel sealing it in place.

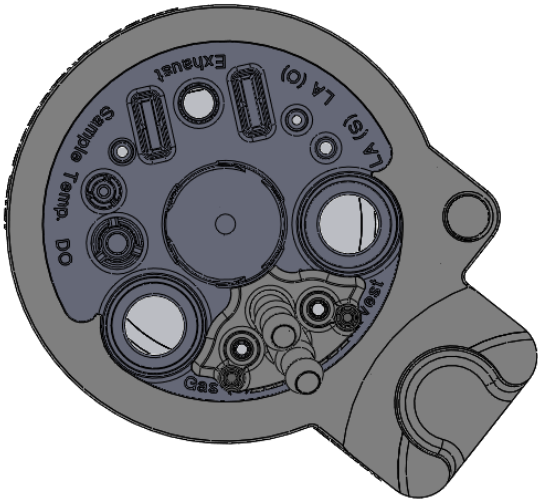


Dokumentnummer:	Emne:				
K08.2.3.1.7	Produktionsordre formular – Kundespecifikt produkt				
Version:	Redaktør:	Dokumentansvarlig:	Godkendt af:	Godkendt (dato):	Side:
1	SH	SH	PS	2025-03-11	6

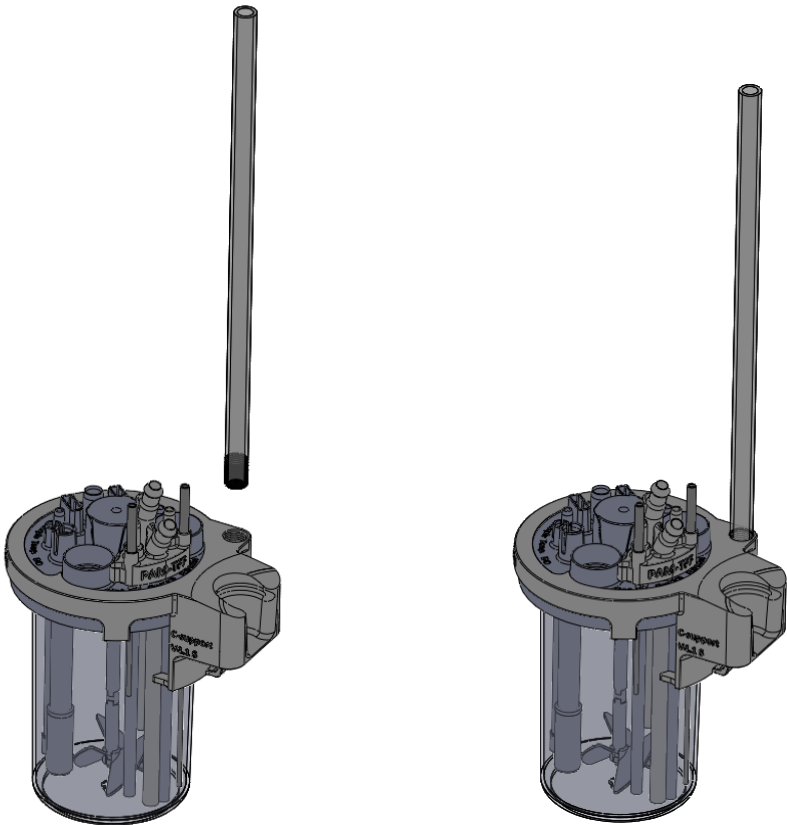
Product code: 3CB-P-SUB-D-B-v10B

Revision 1.1

Remove any excess silicone if needed and attach the Clio vessel support. Make sure the snap-fits lock in place underneath the vessel lit and let dry for 24 hours.



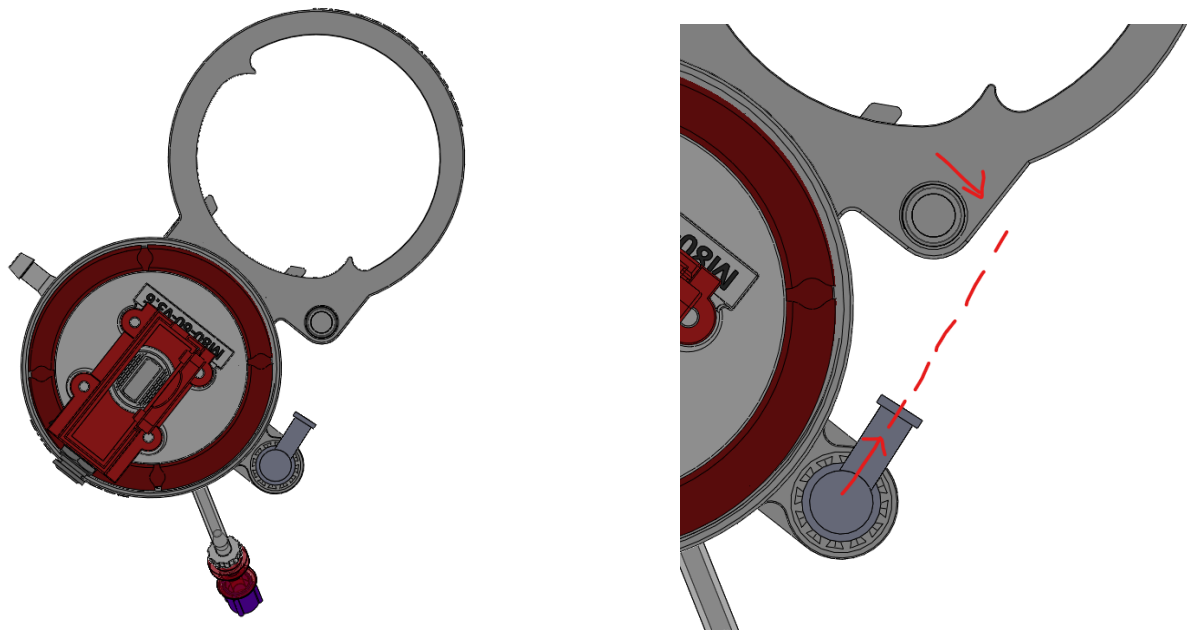
Clio vessel support pc tube:



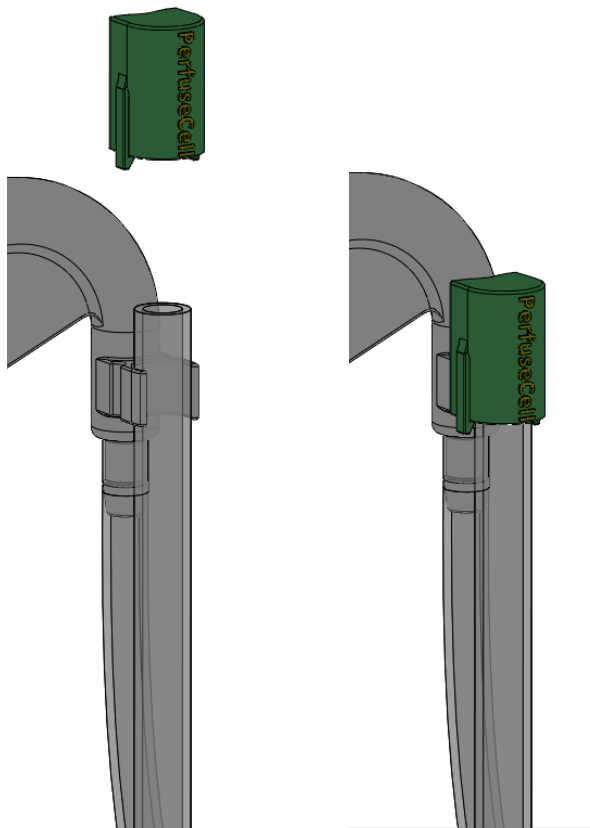
Attached OD10 x 240 mm PC tube for support.

Dokumentnummer:	Emne:				
K08.2.3.1.7	Produktionsordre formular – Kundenspecifikt produkt				
Version:	Redaktør:	Dokumentansvarlig:	Godkendt af:	Godkendt (dato):	Side:
1	SH	SH	PS	2025-03-11	7

Hollow-Fiber-Filter orientation and "PerfuseCell Cap":



The HFF should be mounted with the permeate's parallel to the assembly pointing slightly to the right of the support PC tube, as shown in the picture above:



Dokumentnummer:	Emne:				
K08.2.3.1.7	Produktionsordre formular – Kundespecifikt produkt				
Version:	Redaktør:	Dokumentansvarlig:	Godkendt af:	Godkendt (dato):	Side:
1	SH	SH	PS	2025-03-11	8

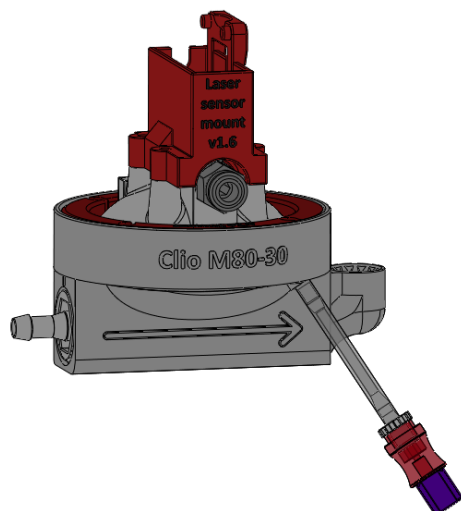
Product code: 3CB-P-SUB-D-B-v10B

Revision 1.1

When assembly is complete slide on the "PerfuseCell Cap".

Single-Use-Pump:

The pump used for this product is Clio M80-30 with the Spectrum "D02-P20U-10-N" Hollow-Fiber-Filter mounted, glued directly in the pump. Spectrum modified in Luer-Lo both ends removed.



Luer-Lock connection:

All Luer-Lock incl. swabable valve (but not the cap) are glued to prevent unwanted disassembly during use.

Level mark:

Level mark needs to be placed in front of "Exhaust".

Strips:

Strips must be applied to all hose barbs.

All strips attached to the headplate must be positioned so that the square lock faces outward, away from the center of the headplate and toward the outer diameter of the vessel.

Designed and manufactured by

PerfuseCell-Cronus-PCS A/S

Noerrelundvej 10

DK-2730 Herlev

Denmark

www.perfusecell.com

Dokumentnummer:	Emne:				
K08.2.3.1.7	Produktionsordre formular – Kundespecifikt produkt				
Version:	Redaktør:	Dokumentansvarlig:	Godkendt af:	Godkendt (dato):	Side:
1	SH	SH	PS	2025-03-11	9