

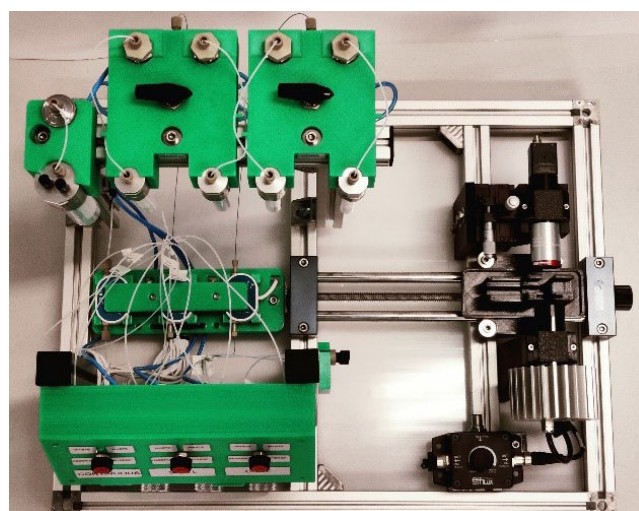
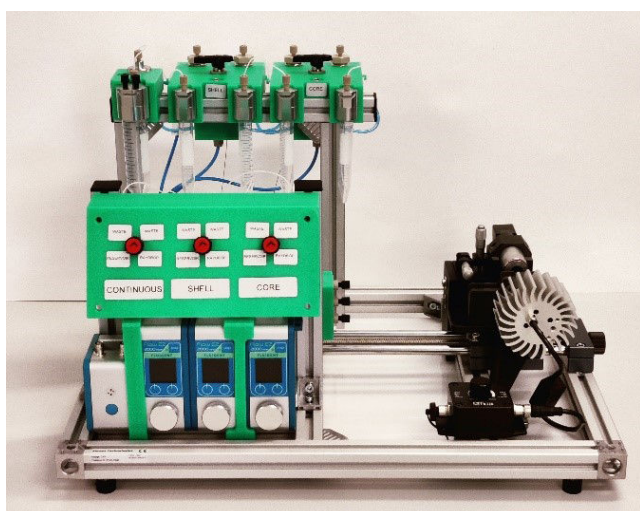
# COMPLEX EMULSION PRODUCTION PLATFORM

## PRODUCT DESCRIPTION

P/N: O-DE-STD-PTF

Version Nov. 21

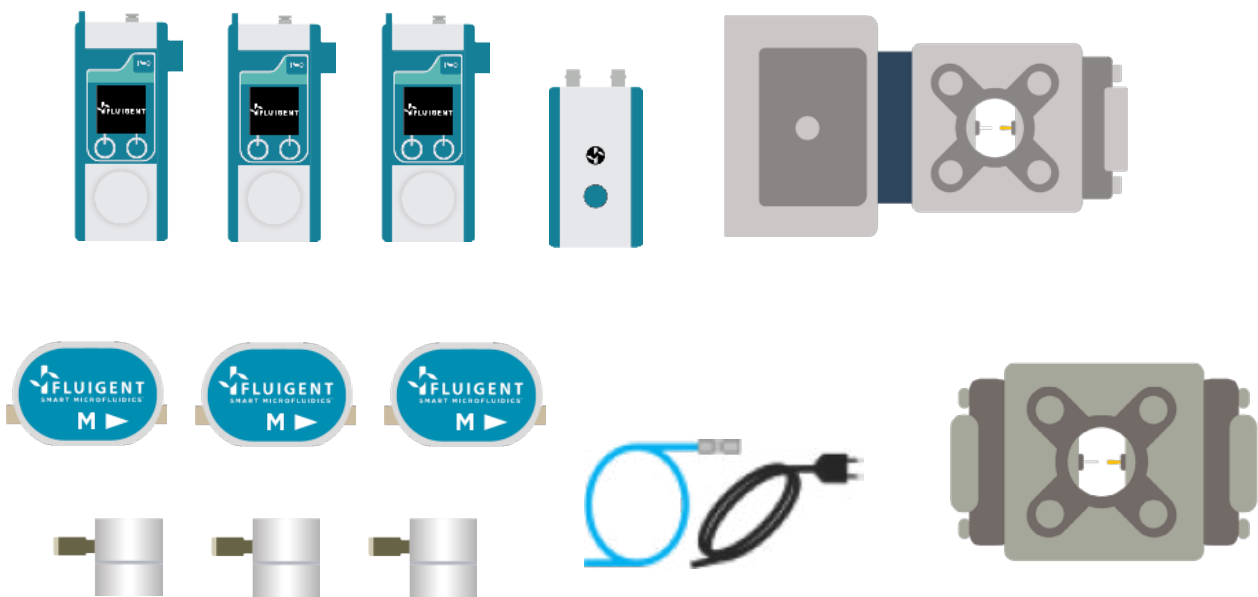
The Complex emulsion production platform is a fast and easy screening tool to setup Complex emulsion production processes such as single emulsions and double emulsions using Secoya's technology: the Raydrop. It includes a comprehensive flow path with pressure controllers, filters, flowmeters, and valves to ease the start-up, shut-down and cleaning of the system in between tests. A suitable optical system guarantees the optimum visualisation of the Complex emulsion production process inside the Raydrop. The open design of the platform allows its adaptation to the customer's needs.



PLATFORM DESCRIPTION

- Raydrop Double emulsion
- 3 pressure controllers (0-7 bars or 0-2 bars)
- 5 reservoirs
- 3 flowmeters
- Complete and pre-connected flow path
- Complete optical system
- Designed for use in fume hoods, special designed cabinets, and gloveboxes.

Maximum operating condition can be limited depending on the fluid couple used.  
Adaptations of the Raydrop to your specific needs upon request.



Description	Product	Part Number
Double emulsion production device	Raydrop Double Emulsion (30-70-150)	ORDRPDE-30-70-150
Fluid handling system	<ul style="list-style-type: none"><li>• 1*Link module</li><li>• 3*Flow EZ 7 bar for all 3 phases</li></ul>	<ul style="list-style-type: none"><li>• LU-LNK-0002</li><li>• LU-FEZ-7000</li></ul>
Reservoirs	<ul style="list-style-type: none"><li>• Continuous phase: 1*50mL Pcap with 50mL Falcon tube</li><li>• Shell Phase: 2*15mL Pcap with 15mL Falcon tube</li><li>• Core Phase: 2*15mL Pcap with 15mL Falcon tube</li></ul>	<ul style="list-style-type: none"><li>• P-CAP50-HP</li><li>• P-CAP15-HP</li></ul>
Flow meters	<ul style="list-style-type: none"><li>• Continuous phase: 1*Flow unit L</li><li>• Shell Phase: 1* Flow unit M</li><li>• Core Phase: 1*Flow unit M</li></ul>	<ul style="list-style-type: none"><li>• FLU-M-D</li><li>• FLU-L-D</li></ul>
Optical system	<ul style="list-style-type: none"><li>• Light source</li><li>• Microscope objective</li><li>• Specific colour camera (up to 400 fps, 1µs integration time)</li><li>• XYZ translation stages</li></ul>	NA*
Tubing and fittings	<p>Tubing:</p> <ul style="list-style-type: none"><li>• OD :1/16 and 1/32 OD</li><li>• ID: 250 µm &amp; 500 µm</li><li>• Materials: PFA</li></ul> <p>Manual valves:</p> <ul style="list-style-type: none"><li>• 3*4 way valves</li><li>• 2* 2 way vavles</li></ul> <p>Filters</p> <ul style="list-style-type: none"><li>• 10 µm filter for continuous phase</li><li>• 2 µm filters for dispersed phases</li></ul>	NA*
Wetted materials	<ul style="list-style-type: none"><li>• Platform: PEEK, PFA, PCTFE, PTFE, SS316L, GLASS</li><li>• Sealing: FKM or EDPM</li></ul>	NA
Unit dimensions	61 x 46 x 43cm3 (L x W x H)	NA
Weight	<ul style="list-style-type: none"><li>• 4 kg without the protective hood</li><li>• 21kg with the protective hood</li></ul>	NA