

R&D NANOPARTICLE CONCENTRATING SYSTEM

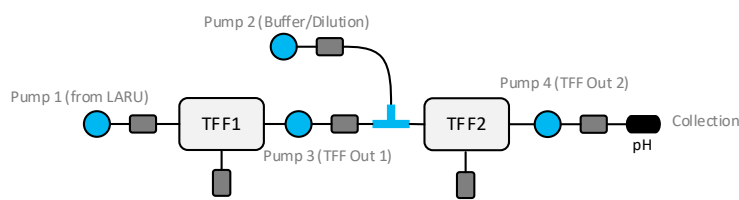


Figure 1: DIANT LARU 2TFF Flow Chart

Specification	Value
Output Flow, Retentate (max)	160 mL/min
Input Flow Rate	400 mL/min
Concentration Factor (nominal)	10x
Dilution Factor (nominal)	10x
TFF Membranes	100 kD Cassettes, up to 0.5 m ² per holder (2x)
Pressure Rating (max)	60 psi
Touchscreen HMI	Yes
Programmable Recipes	Yes
Cleaning Cycle	Automatic
Flow Meters	Ultrasonic, up to 7
Pump Style	Gear, up to 5
Sensors Included	Temperature, Pressure
pH Measurement	1-14
Data Logging File extension	.csv
Voltage, Frequency	100-240 V, 50/60 Hz
Enclosure	Stainless Steel
Dimensions	30 x 45 x 12" (76 x 114 x 30 cm)
Weight (estimated)	175 lbs

Table 1: Specifications of DIANT LARU 2TFF. Values subject to change. DIANT LARU is for R&D-Use.

Addons Available:

- (1) Additional pH Probes
- (2) Conductivity
- (3) PAT upon request

Lipid Nanoparticles (LNPs), Liposomes, Lipoplexes, Polyplexes,
Polymeric Micelles, Suspensions and more...

A Processing Technology You Can Depend On

DIANT LARU 2TFF

Tangential Flow Filtration
DIANT offers a multi-stage tangential flow filtration system using DIANT proprietary technology that reduces biofouling. This system connects directly with the DIANT LARU for **continuous** or standalone operation.

Continuous manufacturing
Our systems produce nanoparticles *via* a continuous process. The LARU 2TFF concentrates particles using as a closed system, operating in single-pass mode.

Scalable to Production

The LARU 2TFF is scalable of the **DIANT LF** production series and is ideally used for R&D and training operations.

Multiple Program Options

Store and create runtime recipes to produce particles at different flow conditions and for set durations.

Process analytical technology (PAT)

Add-on features available for integrated PAT, such as inline lipid analysis or particle size analysis.

pH and Temperature

Monitor the pH and temperature of your material.