



Online Liposome Extruder with Nanopump System

General Assembly Manual

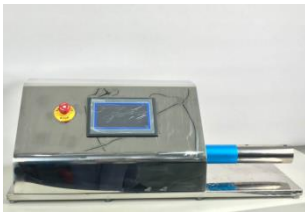




◆ Parts List

The following describes the parts supplied along with Genizer 10L liposome extruder with Nanopump system unit. Please unwrap all the items and check whether there is any missing part.

For easy installation in your side, some parts have been assembled together as a small unit. So, it's quite easy for operators to build up the whole system.

(Contact Genizer Service Dept. if any missing parts or having troubles in assembling: service@genizer.com)

No.	Photo	Description	QTY Ordered	QTY Shipped
①		Nanopump	1 SET	1 SET
②		Electric Cord Power Supply	1 PC	1 PC
③		Temp-Pressure Dual Parameter Transmitter	1 PC	1 PC

④		Pressure Transmitter	1 PC	1 PC
⑤		1L S/S Reservoir	1 PC	1 PC
⑥		Inlet Check Valve with Tri-Clamp	1 SET	1 SET
⑦		Outlet Check Valve	1 PC	1 PC
⑧		Coupling (Long nut)	1 PC	1 PC
⑨		HP Connections, Including: ELBOW, QTY: 1 PCS TEE, QTY: 2 PC	3 PCS	3 PCS

<p>⑩</p>		<p>High Pressure Tubing and Gland Lg. 300MM: 1 PC Lg. 110MM: 1 PC Lg. 109MM: 1 PC</p>	<p>1 SET</p>	<p>1 SET</p>
<p>⑪</p>		<p>High Pressure Connection to the Outlet of Extruder</p>	<p>1 PC</p>	<p>1 PC</p>
<p>⑫</p>		<p>Plunger Seal Unit</p>	<p>Extra for spare</p>	<p>1 UNIT</p>
<p>⑬</p>		<p>Disassemble Tools Set Including: Adjustable wrench: 2 PCS, Seal disassemble tool: 1 PC, Allen Wrench: 1 PC</p>	<p>1 SET</p>	<p>1 SET</p>
<p>⑭</p>		<p>Extruder Top with Handles</p>	<p>1 PC</p>	<p>1 PC</p>
<p>⑮</p>		<p>Filter Support Base</p>	<p>1 PC</p>	<p>1 PC</p>

<p>①⑥</p>		<p>Cap Screws</p>	<p>8 PCS</p>	<p>8 PCS</p>
<p>①⑦</p>		<p>S/S Support Disc</p>	<p>1 PC</p>	<p>1 PC</p>
<p>①⑧</p>		<p>S/S Support Mesh</p>	<p>1 PC</p>	<p>1 PC</p>
<p>①⑨</p>		<p>Tri-Clamp Unit for Material Outlet Port</p> <p><u>Including:</u> Adaptor, Hose Barb, Trip-Clamp, Collection Hose</p>	<p>1 UNIT</p>	<p>1 UNIT</p>

◆ General Assembly Procedure

The following describes the assemble steps to build the whole unit.

STEP 1



Place the Nanopump on a stable working place where is clean of any unnecessary equipment.

Install the inlet check valve with S/S reservoir using the supplied wrench.

STEP 2



Install the outlet check valve.

Note: Please pay attention to the installation direction. Make sure the arrow on the check valve body should face up.

STEP 3



Connect High Pressure Long Nut and Tubing (Lg. 110MM) to the ELBOW.

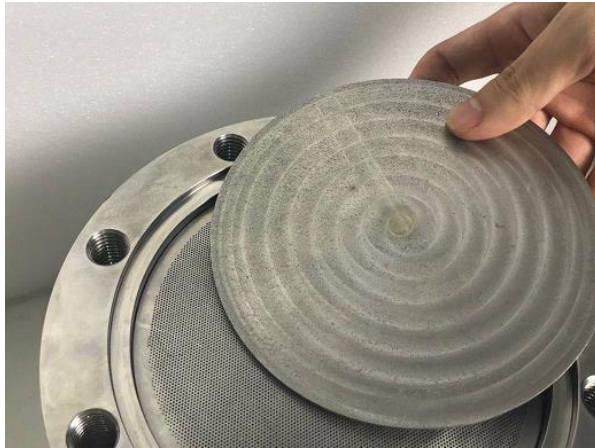
STEP 4



Place the S/S support mesh into the center cavity of the extruder base.

Note: Please pay attention to the direction. The larger pores should face down.

STEP 5



Place the S/S support disc onto the S/S support mesh.

Note: Please pay attention to the direction. The side with whorls should face up.

STEP 6

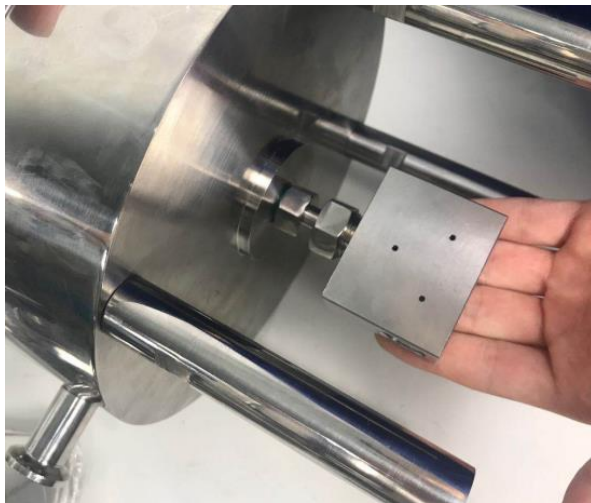


Carefully place required membranes on the S/S support disc, and cover the extruder top, then thread eight cap screws.

Connect the high pressure tubing (Lg.109MM) unit to the extruder top.

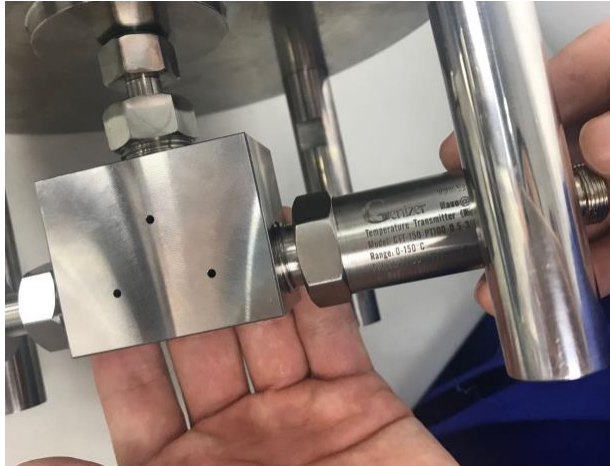
Note: Wetting the membrane can be benefit during the placement. The membrane should be flat with no wrinkles or bubbles.

STEP 7



Tilt the extruder to one side, and connect other high pressure connections as left photos shown.

STEP 8



Connect temperature transmitter to TEE.

Note: Please remove the electric cord of transmitter first when install it with TEE in case of any damage to the inner wire when you screw the transmitter into the TEE.

STEP 9



Connect the electric cord with temperature transmitter.

STEP 10



Place the supplied sanitary gasket onto the end of outlet port and connect to the hose barb using Clamp

STEP 11



Stand the extruder upright. Connect TEE with another high pressure tubing (Lg. 109MM).

STEP 12



Connect temperature-pressure dual parameter transmitter with TEE.

Then, connect the electric cord with the transmitter.

Note: Please remove the electric cord of transmitter first when install it with TEE in case of any damage to the inner wire when you screw the transmitter into the TEE.

STEP 13



Connect the longest high pressure tubing (Lg. 300MM) to the TEE and ELBOW to link the Nanopump and extruder.

STEP 14



Connect the transmitters' electric code to Nanopump to finish the general assembly procedure.

STEP 15



Connect power supply cord to build up whole system.



THANK YOU FOR YOUR BUSINESS!

Questions, comments and concerns about this order are welcome to email us:

service@genizer.com